

1954

CENSUS OF MANUFACTURES

VOLUME II

INDUSTRY STATISTICS

PART I

GENERAL SUMMARY

AND

MAJOR GROUPS 20 TO 28



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# UNITED STATES Census of Manufactures 1954

Volume II

## INDUSTRY STATISTICS

Employment, Payroll, Capital Expenditures, Value Added,  
and Related Statistics by Industry; Quantity and Value  
of Individual Materials Used and Products Made

### Part I GENERAL SUMMARY and MAJOR GROUPS 20 to 28

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This volume comprises the 1954 Census of Manufactures Industry Bulletins, Series MC-20A thru MC-39E, and related supplementary materials.

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## PREFACE

This is one of a series of three volumes presenting final results of the 1954 Census of Manufactures. The 1954 Census was a large-scale undertaking which depended upon significant contributions from a great number of private and public organizations and individuals. Essential to the success of the Census, of course, was the excellent cooperation of some 280,000 manufacturing establishments in completing the appropriate report forms.

Hundreds of trade associations and thousands of individual manufacturers--large, medium, and small--as well as Government agencies and other data users provided valuable counsel in determining the types of information which would be of maximum usefulness. Among the Government agencies, the Bureau of the Budget, Business and Defense Services Administration, Bureau of Labor Statistics, Bureau of Mines, Department of Agriculture, the Office of Business Economics, the Board of Governors of the Federal Reserve System, and the Tariff Commission made especially important contributions to the 1954 Census. Also noteworthy was the assistance of the Advisory Council on Federal Reports in advising upon the feasibility of collecting various types of data and in participating in efforts aimed at minimizing the reporting burden. Support by the United States Chamber of Commerce, the National Association of Manufacturers, and other business groups, and timely publicity given to the Manufactures Census by the press, television, and radio aided materially in the collection of the reports.

The primary responsibility for the 1954 Census of Manufactures was centered in the Industry Division of the Census Bureau. Other divisions of the Bureau, particularly the Economic Operations Division, Machine Tabulation Division, Field Division, Administrative Service Division, and the Electronic Systems Branch, also had important functions in the Census.

The Manufactures Census was taken under the supervision of Maxwell R. Conklin, Chief of the Industry Division. The individuals listed in the organization structure of the Division shown on the opposite page carried the principal responsibility for the Census within the Division. Other Industry Division staff personnel also had important responsibilities in various phases of the Census. Their individual and collective contributions were essential to the completion of the census and of greater significance than would ordinarily be inferred from the mere alphabetic listing of their names which follows: Daniel Arrill, John J. Bartosiewicz, Paul F. Berard, Martin Bloom, Evelyn W. Colburn, Alice K. Cullen, Angela R. Daly, Jerome Deitch, M. Audrey Dickerson, Robert J. Dressel, David M. Fishbein, Edward D. Gruen, Arthur W. Horowitz, Shirley Kallek, Alvin S. Lubeck, Martin L. Marimont, Reese R. Morgan, Richard J. Rice, Albert A. Schulman, Charles H. Wittman, and John J. Zirkle, Jr. These individuals merited recognition for their participation in the development of the Census inquiries, the preparation of the report forms and instructions, the design of specifications for editing and coding the returns and the preparation and review of final text and tables. In a broader sense, special mention is due the entire staff of the Industry Division and a large number of people in other divisions of the Bureau during the collection, processing, tabulation, and publication of data from the 1954 Census of Manufactures.

Processing of the 1954 Census of Manufactures reports was performed by the Economic Operations Division under the supervision of Marion D. Bingham, Chief, Irving Weiss, Assistant Chief for Processing, and Sol Dolleck, Assistant Chief for Systems Development. Milton D. Lieberman, Chief of the Manufactures Census Branch and Sol Dolleck who succeeded him in that position on October 24, 1955 were assisted by Herman Hess, Walter A. Hines, Mary H. Johnson, Joseph M. Schubert, and Donald E. Young. Samuel Schweid contributed to certain procedural aspects of the Census and Robert Hansen to the Univac programming of the editing and tabulation phases.

Donald K. Heiser, Chief of the Electronic Systems Branch, and Rudolph M. Micoly, Chief of Operations for the Branch, were responsible for the utilization of electronic computer and accompanying high-speed printer equipment in the Census.

C. F. Van Aken was Chief of the Machine Tabulation Division and, in that division, Catherine M. Neafsey, Chief, Economic Section, and Emil Gorgovits were responsible for the machine tabulation procedures used in the Manufactures Census.

In the Field Division, Jack B. Robertson, then Chief of the Division, and Ivan G. Munro, Assistant Chief, were responsible for directing the field work for the Census of Manufactures. George Klink, Branch Chief, supervised the collection of reports from Eastern sawmills that were not included in the Census mail canvass.

Julius Shiskin, Chief Economic Statistician in the Office of the Assistant Director for Statistical Standards, as well as Harold T. Goldstein and Irving Rottenberg of that office, contributed to the coordination of the Manufactures Census with the Censuses of Business and Mineral Industries and to several phases of the planning and processing of the Censuses. In addition, Mr. Goldstein assisted in the planning and preparation of the textual material for the industry reports.

Robert H. Brooks, Chief of the Graphics Branch of the Administrative Service Division, was responsible for preparing the Census of Manufactures publications for reproduction. Elma D. Beynon and Ingrid L. Millison of the Statistical Reports Division reviewed text material and table forms, and assisted on publication problems.

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SPECIAL REPORT: Manufacturing Activity in Government Establishments. The special report also appears in Volumes II and III.

Chapters I–XII also issued as separate reports in Bulletin Series MC–200.

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### Volume II: INDUSTRY STATISTICS

Separate chapters for each of 81 groups of related industries. These chapters include, for approximately 460 individual industries, statistics on employment and payrolls, inventories, capital expenditures, fuels, electric energy, and power equipment as well as quantities and values of

individual products made and materials used. Also included in this volume is a general summary chapter and separate summary chapters for each of the 20 major industry groups. (The 81 industry group chapters were issued as separate reports in Bulletin Series MC–20A–MC–39E.)

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### Volume III: AREA STATISTICS

Separate chapters for each State, the District of Columbia, and Alaska and Hawaii. Statistics for standard metropolitan areas, counties and cities, and States by industry with cross classification by industry group for large standard metropolitan areas and principal counties. Also

included in this volume is a summary chapter for each of the nine geographic divisions. (The State chapters were issued as separate reports in Bulletin Series MC–100.)

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## 1954 CENSUS OF MINERAL INDUSTRIES FINAL REPORTS

Volume I: Summary and Industry Statistics

Volume II: Area Statistics

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Volume IV: Wholesale Trade—Area Statistics

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This volume includes preprinted portions of previously published industry bulletins (series MC-20A to 39E) and the general summary bulletin (series MC-201). The pages of each report were numbered independently; page numbers of industry reports consists of two parts, the first part being an industry designation. Thus, page 21-1 is page 1 of the report for Industry Group 21, Tobacco Manufactures; page 35B-23 is page 23 of the report for Metalworking Machinery (bulletin MC-35B).



# INTRODUCTION

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### 1. Historical Note

The 1954 Census of Manufactures is the twenty-fifth such census of the United States. The first Census of Manufactures covered 1809. A census was taken at 10-year intervals thereafter to 1899 (with the exception of 1829). It was conducted at 5-year intervals from 1904 through 1919, and every other year from 1921 through 1939. The census was suspended during World War II, but was resumed in 1947. Legislation enacted in 1948 provided for a Census of Manufactures every 5 years, with annual sample surveys authorized for interim years. Such Annual Surveys of Manufactures were taken covering the years 1949 through 1953.

The 1954 Census, originally scheduled for 1953, is the first complete one since 1947, the next one is scheduled for 1958. For 1954, it was conducted jointly with the Censuses of Business (Wholesale, Retail, and Services) and Mineral Industries, covering the continental United States, Alaska, and Hawaii. Separate Censuses of Manufactures and Business for 1954 were also conducted in Puerto Rico jointly with the Commonwealth Government.

### 2. Publication of the 1954 Census Results

Results of the 1954 Census of Manufactures are published in three volumes: Volume I, Summary Statistics, shows comparative statistics for industries, States, and principal metropolitan areas for the more important measures of the activity of manufacturing establishments—employment, payrolls, inventories, capital expenditures, value added by manufacture, important materials consumed, etc.; Volume II, Industry Statistics, is a consolidation of reports for the 81 groups of industries and shows detailed information on individual industries and products. Volume III, Area Statistics, shows for each State and its important metropolitan areas and industrial counties, general statistics (number of establishments, number of employees, payrolls, value added by manufacture, and capital expenditures) for each of the industries of consequence in that State or in its principal metropolitan areas. Totals for all manufacturing are shown for all counties and for cities of 10,000 inhabitants or more. Supplemental reports such as that covering the Index of the Physical Volume of Production are also published.

### 3. Significance of the Manufacturing Sector of the Economy

Manufacturing is the largest of the industrial sectors in the economy. Table A below shows that manufacturing accounted for approximately 30 percent of the total national income. The next largest sector, wholesale and retail trade, contributed only slightly in excess of 17 percent.

Table B shows the relative importance of the major industry groups within manufacturing based on value added by manufacture. It should be noted that the concept of value added by manufacture which is used by the Bureau of the Census is different from the national income measure used by the Office of Business Economics. See section 23 of this Introduction: Value added by Manufacture, for discussion of the two concepts.

Table A.--NATIONAL INCOME BY PRODUCING SECTOR, 1954  
(In millions of dollars)

Industry group	National income	Percent of total
All industries, total.....	298,335	100
Manufacturing.....	89,555	30
Agriculture, forestry and fisheries.....	16,688	6
Mining.....	5,021	2
Contract construction.....	15,466	5
Wholesale and retail trade.....	50,754	17
Finance, insurance and real estate.....	28,103	9
Transportation.....	14,605	5
Communications and public utilities.....	10,693	3
Services.....	29,817	10
Government and government enterprises...	35,803	12
Rest of the world.....	1,830	1

SOURCE: Department of Commerce, Survey of Current Business, July 1956.

Table B--VALUE ADDED BY MANUFACTURE BY MAJOR INDUSTRY GROUP, 1954  
(In millions of dollars)

Code	Industry group	Value added by manufacture	Percent of total
	TOTAL.....	116,913	100
20	Food and kindred products.....	13,400	11
21	Tobacco manufactures.....	988	1
22	Textile mill products.....	4,749	4
23	Apparel and related products...	5,147	4
24	Lumber and products, except furniture.....	3,188	3
25	Furniture and fixtures.....	1,966	2
26	Paper and allied products.....	4,581	4
27	Printing and publishing industries.....	6,265	5
28	Chemicals and allied products..	9,444	8
29	Petroleum and coal products....	2,209	2
30	Rubber products.....	1,904	2
31	Leather and leather products...	1,637	1
32	Stone, clay and glass products..	3,822	3
33	Primary metal industries.....	9,747	8
34	Fabricated metal products.....	7,596	7
35	Machinery (except electrical)..	12,339	11
36	Electrical machinery.....	7,403	6
37	Transportation equipment.....	13,926	12
38	Instruments and related products.....	2,129	2
39	Miscellaneous manufactures.....	4,473	4
19	Ordinance and accessories.....		

#### 4. Definition of Manufacturing Industries

The 1954 Census of Manufactures covers all establishments primarily engaged in manufacturing as defined in the Standard Industrial Classification Manual, Volume I, Manufacturing Industries, dated November 1945, as amended by the Bureau of the Budget. This system of classification is in general use among Federal agencies. The Manual defines manufacturing as the mechanical or chemical transformation of inorganic or organic substances into new products. The assembly of component parts of products is also considered to be manufacturing if the resulting product is neither a structure nor other fixed improvement. These activities are usually carried on in plants, factories, or mills, which characteristically use power-driven machines and materials-handling equipment.

Manufacturing production is usually carried on for the whole-sale market, for transfer to other plants of the same company, or to the order of industrial users or government departments rather than for direct sale to the household consumer. Some manufacturers in a few industries sell chiefly at retail to household consumers through the mail, through house-to-house routes, or through salesmen. Some activities of a service nature (enameling, engraving, etc.) are included in manufacturing when performed primarily for the trade but are considered nonmanufacturing when performed primarily to the order of the household consumer.

The Standard Industrial Classification was developed on the basis of the following principles:

- (1) The classification should conform to the existing structure of American industry;
- (2) The reporting units to be classified are establishments rather than legal entities or companies; each establishment is classified according to its major activity;
- (3) To be recognized as an industry, each group of establishments must have significance from the standpoint of value of sales, employment and other important economic measures. In addition, it is essential that each industry comprise a group of establishments whose output of the products defining the industry (primary products) accounts for a relatively high proportion of the total shipments of the industry as well as of the total shipments of these primary products by establishments in all manufacturing industries.

The Standard Industrial Classification Manual, issued November 1945, was amended slightly by the Bureau of the Budget prior to the 1954 Census. In classifying establishments by industry in the 1954 Census of Manufactures, the Census Bureau followed the amended version of the Standard Industrial Classification. The amendments to the 1945 edition of the standard classification are described in detail in Appendix B.

The following types of activities, while having many of the characteristics usually found in manufacturing, are defined as nonmanufacturing by the Standard Industrial Classification and, therefore, are excluded from the Census of Manufactures:

(a) Processing on farms when the raw materials are grown on the farm and the manufacturing activities (poultry dressing, milk and butter production, logging) are on a small scale without extensive use of paid labor. Also custom milling, cotton ginning, and similar activities.

(b) Mineral preparation such as the crushing, screening and concentrating of ores. However, mining performed as a secondary activity in conjunction with manufacturing is included in the Census of Manufactures; for example, stone and clay mining at cement, lime and clay products plants.

(c) Custom work to the individual order of household consumers. Examples are custom tailoring, woodworking, lettering on monuments, setting of diamonds and the making of orthopedic appliances.

(d) Repair and other service activities, except specified services performed "for the trade." Machine shops engaged exclusively or almost exclusively in repair work and repair shops of railroads are also excluded.

(e) Production of coke for own use by establishments owned by public utility companies.

Consistent with the Standard Industrial Classification, the Manufactures Census does not cover manufacturing when performed (1) by retail establishments which sell most of their products on the premises directly to household consumers, e.g., retail bakeries, ice cream stores, and feed stores, (2) by contractors at the side of construction, e.g., production of paving mixtures (3) by educational, eleemosynary and penal institutions.

It is not unusual for manufacturing establishments to engage also in such nonmanufacturing activities as repair work, merchandising of products without further processing, and installation work. Ordinarily, such nonmanufacturing receipts are small in relation to the manufacturing activities and, in such instances, it is not difficult to determine that the establishments should be included in the manufacturers area. However, where these nonmanufacturing activities account for a significant proportion of total receipts of an establishment, the allocation of that establishment to the appropriate major economic sector is more difficult.

In the 1954 Economic Censuses, an establishment engaged in a combination of manufacturing and merchandising was assigned either to the manufacturing or the trade industries depending on which of these activities was estimated to account for the larger share of its "value added" or "income produced." This criterion, even though based on an approximation, was considered preferable to reported dollar volume of receipts from each type of activity, since manufacturing requires considerably more man-hours, salaries and wages, and other inputs per dollar of receipts than either wholesaling or retailing. In the case of establishments engaged in manufacturing and also in mining, repair work, installation or other nonmanufacturing services, dollar receipts were used as a reasonably valid basis of classification because these activities require substantially comparable inputs per dollar of receipts.

The concurrence of the Censuses of Manufactures, Business and Mineral Industries in the same year provided a more complete universe from which to canvass and classify establishments than did the previous Census of Manufactures which was taken a year before the 1948 Census of Business. Establishments engaged in a combination of manufacturing and nonmanufacturing activities or factories incorrectly mailed a Business or Mineral



Industries report form (and vice versa) were included in the appropriate Census on the basis of the nature of business description and other information, such as products made or resold or services performed called for on the Census report forms. However, the resulting improvement in the coverage of manufacturing between the two Census years was generally limited to small plants in certain industries and did not appreciably affect comparability of data for manufacturing as a whole or for the great majority of industries. For those industries where there is a problem of comparability for this reason, e.g., poultry dressing, tobacco stemming and redrying, the descriptive text for the industry affected discusses the nature of the change.

Data were obtained on the manufacturing activities during 1954 of establishments owned and operated by the Federal Government (military arsenals, Navy yards, etc.) and of Federal and State prisons for the purpose of presenting complete information on manufacturing operations in the United States. Statistics on the employment, value added by manufacture and products manufactured by these establishments are shown in a separate chapter in each Manufactures Volume. Such data are not included elsewhere in the Census tables and, thus, are not represented in any of the individual industry or industry group totals appearing in the Volumes. Information on Government-owned, privately-operated establishments is included throughout the Census tables in the appropriate 4-digit industry on the same basis as privately-owned and operated plants.

#### 5. Definition of Establishment

The Census of Manufactures is conducted on an establishment basis. That is, a company operating establishments at more than one location is required to submit a separate report for each location; also, companies engaged in distinctly different lines of activity at one location are required to submit separate reports if the plant records permit such a separation and if the activities are substantial in size. Census tabulations of establishment reports, therefore, differ substantially from those prepared on a company basis, i.e., from consolidated reports which not only combine manufacturing activities at different locations (thereby eliminating interplant transfers) but also include the nonmanufacturing activity of the company. Census figures will also differ to some extent from other tabulations based on establishment reports where the definition of an establishment as to location and line of activity is not applied in the same way.

The requirement that distinct lines of activity at the same location be separately reported was selectively applied. Consolidated activities at a single location are of two general types: (1) Where vertically integrated processes are present; that is, where basic or intermediate materials are produced for use in manufacturing final products of the plant. These are typified by the integrated paper mill which produces pulp, converts that pulp into paper and frequently goes on to make a variety of converted paper products; the steel mill which is integrated with a blast furnace and coke oven; and the operation of foundries, forge shops, etc., by plants producing machinery or other metal products. Typically, separate reports were obtained in the 1954 Census for the pulp-paper-paper converting or blast furnace-coke-steel mill types of integration. Much less commonly, and in fact only when it was more convenient for the company to report that way, was a separate census return submitted for integrated operations of the captive foundry or forge shop type. There are certain uncommon types of vertical integration such as tin can plants at canneries and steel mills at metalworking plants, which were usually separately reported. (2) Where the establishment produces and ships significant amounts of products classified in different S.I.C. industries. In widely varying degrees this product overlap exists in many manufacturing establishments. Generally, the amounts involved are not of serious proportion and, even if feasible, the filing of separate reports would not be warranted as a practical matter. However, there are a number of plant locations at which 100 or more employees are engaged in each of two or more distinct lines of manufacturing as defined in the Standard Industrial Classification. The Census Bureau requested separate reports in such instances in the 1954 Census, pointing out to the respondent that a limited amount of proration or esti-

imating was acceptable in the preparation of such reports. For the most part, the effort was successful, particularly in the case of very large operations where failure to "split out" the different activities would have significantly distorted the relationship of the industry and product statistics. Not infrequently, though, the two groups of products were made on the same production lines, by many of the same employees, and could not be distinguished sufficiently in the companies' records to provide establishment-type reporting. The extent to which such separations could not be achieved combined with the overlap contributed by the smaller plants (those with less than 100 employees) is shown for each industry in Tables 5A and 5B of the appropriate chapter of Volume II, Industry Statistics. It is planned that the 1954 Census of Manufactures will be the last one in which separate reports will be required for the several major activities at integrated paper mills and steel mills, although it is expected that selected key items of information will be obtained separately for the major types of activities.

For the 1954 Census, as for earlier censuses, a minimum size limit was set for establishments to be included. In both the 1954 and 1947 Censuses, reports were required from all establishments employing one or more persons at any time during the census year, whereas in prior censuses, establishments with less than \$5,000 value of products were excluded. The change in the minimum size limit in 1947 does not appreciably affect the historical comparability of the Census figures except for data on number of establishments for a few industries.

#### 6. Industry Classification of Establishments

Each of the establishments covered in the census was classified in one of approximately 450 manufacturing industries in accordance with the industry definitions embodied in the Standard Industrial Classification system (see Appendix A). Under this system of classification, an industry is generally defined as a group of establishments producing a single product or a more or less closely related group of products. The product groupings from which industry classifications are derived are based on such considerations as whether they are typically produced by the same establishment, similarity of manufacturing processes, types of material used, types of customers, and the like. The group of products assigned to an industry is said to be "primary" to that industry. Accordingly, an establishment is classified in a particular industry if its production of the primary products of that industry exceeds in value, its production of products of any other single industry. In a few instances, however, the industry classification of an establishment is determined not only by the products it makes but also by the processes employed or materials used in making those products.

While some establishments produce only the primary products of the industry in which they are classified, it rarely happens that all the establishments in an industry specialize to this extent. The general statistics (employment, inventories, value added by manufacture, etc.) shown for an industry, therefore, reflect not only the primary activities of the establishments in that industry but also their activities of a secondary nature. For this reason, in relating industry statistics to product statistics showing shipments by all industries of the primary products of that industry, the composition of the industry's output as shown in Tables 5A and 5B of the Industry Volume should be considered. The extent to which industry and product statistics can be related is measured by two ratios which are available in Table 5A of the Industry Volume. The first of these ratios, called the primary product specialization ratio, describes the proportion of product shipments (both primary and secondary) of the industry represented by primary products. The second, defined as the coverage ratio, is the proportion of primary products shipped by the industry to total shipments of such products by all manufacturing industries.

The primary product specialization ratio measures the homogeneity of each 4-digit industry only in terms of the final products of its establishments. The industry may lack high homogeneity, and many of them do, in other equally or more important characteristics such as processes used, materials consumed, etc. There is substantial variation in types of produc-

tion processes and in the degree of integration of those processes for individual plants within separate S.I.C. industries throughout the classification structure. This may occur because of the variety of products falling into a single industry classification, e.g., industries such as photographic equipment, scientific instruments and toys. However, even where the primary products of the industry are reasonably narrowly defined, the processes carried on by particular establishments in the industry may be markedly different.

There are many examples of diversity of manufacturing operations among establishments in an industry. In the Woolen and Worsted Fabrics Industry, some of the plants perform all the operations from processing the raw fiber to the finishing of the fabric whereas other plants in the same industry limit their activities to weaving the fabric. In the metal fabricating industries, plants may operate a wide variety of metal processing departments (e.g., foundry, machine shop, plate fabrication) or may be solely engaged in the assembly of component parts purchased from other manufacturers. For example, in the refrigeration industry (Industry 3585) there are instances of almost complete integration in which the production of the compressor and condensing unit, electric motor and even the stamping of the case as well as the final assembly are all carried on at one plant. There are also strictly assembly plants and plants with various combinations of particular processes to be found in that industry.

These differences among plants in the same industry have a profound effect on the relationship between labor costs and material costs. As a consequence, in many industries there is a wide dispersion among individual establishments in such important ratios as payrolls to shipments and material costs to shipments. The 1954 Census does not provide any across-the-board measure of this diversity as it does for product mix through the specialization ratio.

For many industries, separate statistics are given on the manufacture of intermediate products for use within the same plant. This practice has been followed for many earlier censuses in the pulp and paper, textile fiber, yarn and fabric and certain chemical industries. In the 1947 and 1954 Censuses, the approach was expanded to include captive castings, motor and engine facilities and for the entire metalworking area an inquiry was added to show captive metal fabricating facilities such as stamping facilities, machine shops, and the like.

The texts in the Industry Volume describe the nature of variations in types of processes used and the production of intermediate parts and components in the same plant for those industries where such situations are especially significant. Differences in the integration of production processes, types of operations and the like should be taken into consideration together with the specialization and coverage ratios when using the industry statistics (employment, value added, materials used, etc.) and in relating these figures to the product data.

## 7. Comparability of Data with the 1947 Census of Manufactures

The 1947 figures include revisions of previously published 1947 Census totals and are comparable with the 1954 data (except as specifically noted in the tables or accompanying text.)

Two important changes were made in the scope of the 1954 Census of Manufactures which affected the comparability of State and selected industry statistics with the data from the 1947 Census of Manufactures.

(a) In the 1954 Census of Manufactures, the processing of milk (pasteurizing, homogenizing, vitaminizing, bottling) was defined as a manufacturing activity. For the 1947 Census establishments shipping any fluid milk were excluded from manufacturing industries regardless of their primary activity, in accordance with the 1945 edition of the Standard Industrial Classification Manual. Furthermore, in 1954 establishments processing and distributing fluid milk and other dairy products were classified on the basis of the primary product or activity of the establishment.

(b) In the 1947 Census of Manufactures, Logging Camps and Contractors (S.I.C. 2411) were excluded. In addition, only Sawmills and Planing Mills (S.I.C. 2421) that cut more than 200,000

board feet of lumber were included. On the other hand, for 1954, all loggers and sawmills with one or more paid employees as reported to the Bureau of the Old-Age and Survivors Insurance were included in the Census. In 1954, the loggers accounted for more than 11 percent of the national employment in Major Industry Group 24, Lumber and Wood Products. It is estimated that sawmills and planing mills producing less than 200,000 board feet accounted for less than 2 percent of national employment for the group.

The above changes have been noted in the appropriate tables and where significant, data are provided on a comparable basis for the two census years.

## 8. Geographic Areas

(a) Census divisions and regions.--In order to present census data at a level intermediate between the United States and the individual 48 States, the Census Bureau has used regional groupings for over a century. Since the 1909 Census of Manufactures, the present nine geographic divisions have been used. Beginning with the 1939 Census, the nine divisions were grouped also into four major geographic regions; Northeast, South, North Central and West.

Not only are these groupings convenient for the summary presentation of census data below the U. S. level, but they are essential to presenting maximum geographic information for those individual industries in which application of the Census disclosure law precludes the publication of individual State data. (See section on "Confidentiality of Data for Individual Companies" for a discussion of the disclosure rules.) The relative importance of manufacturing in 1954 among the several States and regions is shown in Table C.

(b) Standard metropolitan areas.--In addition to the legally constituted geographic units--States, counties, and cities--"All manufacturing" totals have been tabulated for the approximately 170 standard metropolitan areas, while industry group (3-digit) statistics have been tabulated for those areas reporting at least 40,000 manufacturing employees either in 1947 or 1954. (Industry group statistics for such areas are presented in Area Volume Table 5. There are 62 areas meeting this employment criterion.)

Except in New England, a Standard Metropolitan Area is a whole county or group of contiguous counties which contain a city (or cities) of 50,000 inhabitants or more. The inclusion of contiguous counties in a Standard Metropolitan Area is determined by the application of certain criteria aimed at measuring the metropolitan character of the county or counties and the degree of social and economic integration with the central city. An area may contain not only highly industrialized counties but also adjoining counties which, though primarily residential in character, contribute significantly to the industrial counties' labor force. A standard metropolitan area is generally more restricted than the market or trading area. In the New England States, similar integration criteria have been applied in defining standard metropolitan areas, but on a city and town, rather than on a county basis. The town is a more satisfactory statistical unit than the county in this region of the country. The Standard Metropolitan areas were defined by the Federal Committee on Standard Metropolitan Areas of the U. S. Bureau of the Budget for general-purpose use throughout the Federal government in presenting economic and social data.

The requirement that each standard metropolitan area consist of county units (except in New England) sometimes results in the inclusion in an area of a considerable amount of territory which would not ordinarily be considered "metropolitan," much less "industrial." It is recognized that metropolitan areas could be more accurately defined in terms of smaller area segments such as minor civil divisions, but the usefulness of areas so defined would be limited by the fact that many types of economic and social data are available only on a county basis. Moreover, so far as the Census of Manufactures is concerned, the inclusion in the metropolitan area of large tracts of agricultural or forest land is of little importance, since their contribution to the industrial activity of the area is usually negligible.



Table C.--VALUE ADDED BY MANUFACTURE BY DIVISION AND STATE, 1954

Division and State	Value added by manufacture (millions)	Per cent	Division and State	Value added by manufacture (millions)	Per cent	Division and State	Value added by manufacture (millions)	Per cent
United States, total	\$116,913	100.0	West North Central--Con.			West South Central..	\$5,721	4.9
New England.....	9,128	7.8	Missouri.....	\$2,727	2.3	Arkansas.....	457	.4
Maine.....	565	.5	North Dakota.....	35	.1	Louisiana.....	1,182	1.0
New Hampshire.....	409	.3	South Dakota.....	78	.1	Oklahoma.....	581	.5
Vermont.....	223	.2	Nebraska.....	394	.3	Texas.....	3,502	3.0
Massachusetts.....	4,356	3.7	Kansas.....	1,049	.9			
Rhode Island.....	697	.6	South Atlantic.....	10,658	9.1	Mountain.....	1,505	1.3
Connecticut.....	2,877	2.5	Delaware.....	353	.3	Montana.....	141	.1
Middle Atlantic.....	30,402	26.0	Maryland.....	1,889	1.6	Idaho.....	182	.1
New York.....	14,149	12.1	District of Columbia	157	.1	Wyoming.....	51	.1
New Jersey.....	6,331	5.4	Virginia.....	1,629	1.4	Colorado.....	472	.4
Pennsylvania.....	9,930	8.5	West Virginia.....	988	.8	New Mexico.....	126	.1
East North Central.....	36,501	31.2	North Carolina.....	2,210	1.9	Arizona.....	192	.2
Ohio.....	10,165	8.7	South Carolina.....	1,041	.9	Utah.....	276	.2
Indiana.....	4,625	4.0	Georgia.....	1,592	1.4	Nevada.....	63	.1
Illinois.....	9,669	8.3	Florida.....	798	.7	Pacific.....	11,184	9.6
Michigan.....	8,707	7.4	East South Central....	4,702	4.0	Washington.....	1,549	1.3
Wisconsin.....	3,334	2.8	Kentucky.....	1,236	1.1	Oregon.....	1,037	.9
West North Central.....	7,114	6.1	Tennessee.....	1,679	1.4	California.....	8,598	7.4
Minnesota.....	1,595	1.4	Alabama.....	1,319	1.1			
Iowa.....	1,236	1.0	Mississippi.....	468	.4			

Note: Detailed figures may not add to the totals because of independent rounding.

Each standard metropolitan area is designated by the name of the principal city of the area. In addition to the name of the principal city, the area title may include a maximum of two additional city names.

(c) Principal industrial counties.--In addition to industry group (3-digit) statistics for standard metropolitan areas with 40,000 or more manufacturing employees, the Census of Manufactures presents data in Area Volume Table 6, by major (2-digit) industry groups, for each "principal industrial county." A "principal industrial county" is one having 20,000 or more manufacturing employees in either 1947 or 1954. (There are 143 counties, or their equivalents, meeting this criterion.)

Although it is not feasible to show detailed industry data for most counties because of the disclosure law, the principal industrial county statistics supplement the data for metropolitan areas in two ways: First, they provide industrial information for the principal counties of some of the smaller metropolitan areas (many of which are, in fact, one-county-areas). Second, they provide information on the variations by county in industrial structure within the larger multicounty metropolitan areas.

(d) Cities of 10,000 inhabitants or more.--As in 1947, summary totals are presented for each individual city having 10,000 inhabitants or more. No industry detail is shown for individual cities. Because of the precedence given to standard metropolitan areas and principal industrial counties, most industry data even for large cities would necessarily be withheld from publication to avoid disclosure of individual company data by subtraction.

(e) Water use regions.--To present data on water use in manufacturing, together with related Census data on manufacturing activity, the country was divided into 18 water use regions. These regions typically represented combinations of river basins. The definitions of these water use regions were developed in consultation with other federal agencies having responsibilities for water development or use and with representatives of private industry.

Boundaries of water use regions generally follow the summits of watersheds and do not follow State boundaries. For practical reasons, however, water use regions are defined in terms of whole counties. Statistics are presented in the Summary Volume for each of these regions on the ratio of gallons of water intake per employee in addition to the total gallons of water intake, source of water, etc. Similar information is also presented for selected industries and counties within the water use regions.

## 9. The Census Report Forms

Although only one report was required from each establishment in the 1954 Census of Manufactures, the diversity of manufacturing activities made it necessary to use some 200 different report forms to canvass the approximately 450 manufacturing industries. In order to obtain the data essential to the census in a manner consistent with considerations of cost and reportability by the respondent, standard forms requiring full census detail were used only for those manufacturing plants above a given size in terms of number of employees (generally six or more employees). For the numerous smaller establishments, typically having less detailed records and representing a very minor portion of manufacturing output and employment, data requirements were limited to a relatively few key items on a general short form. In the case of a few industries where such small plants typify the industry (thus accounting for a substantial portion of its total in their aggregate), modified versions of short forms were used. However, all multiplant companies were sent the appropriate standard form for each of their establishments regardless of the size of establishment.

It was possible in this Census, using the administrative records of the Bureau of Old-Age and Survivors Insurance in conjunction with existing Census records, to determine correctly, in most cases, which report form was required for each manufacturing establishment before the mailing.

Information was obtained on all 1954 forms regarding the physical location, Social Security employer identification number, company affiliation, and form of ownership. These facts not only provided for completeness-of-coverage control in the census (see section 11, Development of the Mailing List), but also permitted the classification of each establishment by geographic location and type of legal organization.

(a) Standard Forms.--Each standard form called for virtually the same general plant items--employment, payrolls, man-hours, summary of materials cost, detailed fuels and electric energy costs, horsepower of installed equipment, water usage, inventories, and capital expenditures. However, the forms differed in that detailed inquiries on the quantity and value of individual products shipped and individual materials consumed as well as miscellaneous inquiries such as types of operation, equipment, and class of customer were adapted to the individual industry or industry group. These adaptations in product and material inquiries resulted in 192 different report forms for the manufacturing industries.

(b) General Short Form.—This form, designed for establishments with less than six paid employees and not part of a multi-unit company, was an abbreviated version of the standard form requesting limited general and product information typically available from the records of smaller manufacturers. For example, only total employment and payroll figures were requested, without detail by functional class of employees (i.e., production workers, force-account construction workers, and all other employees); production-worker man-hour figures were not required. Instead of detailed information on individual products shipped, the short form requested the respondent to indicate only his value of shipments in terms of product classes, a reference list for which was enclosed to provide consistency in reporting.

(c) Modified Short Forms.—In manufacturing as a whole and in most industries, very small establishments accounted for only a minor part of employment or production. Establishments with less than six employees accounted for less than two percent of value added by manufacture. However, for a few industries, smaller plants constituted a significantly large proportion of the total. For these industries, modified short forms were used, with the same establishment type inquiries (i.e., employment, inventories, etc.) as appeared on the general short form. In the materials and product sections of these forms, however, greater detail was required, approaching the materials and product sections of the standard form counterparts for these industries. The industries covered in this manner were: Logging and Sawmills, Concrete Products, Dairy Products, and several printing and publishing industries.

In addition to the report forms described above, there were several special forms used in 1954 to obtain information on related activities of manufacturing companies.

(d) Form for Manufacturing Plants Under Construction During 1954.—This form was designed to obtain data on capital expenditures by manufacturing firms for new plants under construction during 1954 but not in operation by the end of the year. A regular census report of the type described in (a)-(c) above was not obtained from such establishments. The new plant form was sent to the 1,700 largest manufacturing firms, and to a sample of 600 other manufacturing companies. (For a discussion of the purpose and use of this form, see section 25, "Expenditures for Plant and Equipment.")

(e) Form for Separate Central Administrative Offices and Auxiliaries of Manufacturing Companies.—Separate reports for each central administrative office and auxiliary unit (e.g., storage warehouses, power plants, research laboratories, garages, repair shops, etc.), which served the manufacturing establishments of the company rather than the general public, were obtained from the company if they were at locations different from the establishments served or if they serviced more than one manufacturing establishment. The report form included inquiries on payrolls, employment, inventories, sales and warehouse storage space. In the manufacturing field, there were approximately 4,200 such establishments in 1954, about evenly divided between administrative offices and auxiliary units. They accounted for 470 thousand employees with payrolls of almost \$3 billion, which represents 3 percent and 4.5 percent, respectively, of the totals for all manufacturing.

The employment, payroll and other related data for separate administrative offices and auxiliaries are not included in the operating manufacturing establishment totals, either for individual industries or industry groups. The employment and payrolls of such administrative offices and auxiliaries are, however, shown separately and also included in the "all manufacturing" totals in selected tables in the Summary and Area Volumes, e.g., Table 1 of each State report.

(f) Supplemental Form for Industrial Water Use.—On all standard forms, the respondent was asked to indicate, in terms of broad size ranges, the amount of water intake at his plant during 1954. Plants indicating the use of "20 million gallons or more" were defined as large water users. Based on results in the 1953 Annual Survey of Manufactures, it was estimated that this group of plants accounted for about 95 percent

of the total use of water in manufacturing. For 1954 each large user was sent an "Industrial Water Use" form, which requested information on water intake by broad use (processing, cooling, etc.), by type of water (fresh or brackish), and by source (public or private systems) as well as the amount of water recirculated and treated. The water use statistics obtained in the 1954 Census appear in the Summary Volume only.

#### 10. Comparison with 1947 Census Report Forms

In most respects, the inquiries on the 1954 standard Census forms were similar to those of the 1947 Census. However, there were some significant differences as follows: A 1947 classification of employees distinguishing clerical and routine office workers from other non-production personnel was dropped in the 1954 Census. Also, the 1947 item, "analysis of payroll ended nearest Oct. 15th", which included an employment distribution by sex was omitted in the 1954 Census. Further, the 12 monthly employment figures requested in 1947 were reduced to 4 selected months in 1954 except for report forms for highly seasonal industries.

The two-fold distribution of inventories in 1947 (finished products and all other inventories) was expanded in 1954 to a three-fold distribution in which work-in-process inventories were requested as a separate figure. On the other hand, the capital expenditures inquiry was abbreviated by the elimination of the subclasses under expenditures for new plants ("buildings" and "other construction") and by dropping of the subclasses under expenditures for new machinery and equipment ("production machinery and equipment" and "other machinery and equipment").

The industrial water use and horsepower rating inquiries of the 1954 census had no counterparts on the 1947 schedules. Conversely, the 1947 inquiry on highway-type motor vehicles was omitted in 1954.

The 1947 short forms, which were used on a more limited basis (ordinarily for one-employee establishments, except for small sawmills and printing establishments for which a higher employment cut-off was used), were similar in content to the 1954 short forms. In contrast to 1954, the 1947 forms, however, did not require separate figures on cost of contract work, value of total inventories, or total capital expenditures.

#### 11. Development of the Mailing List

The basic mailing list for the 1954 Censuses of Manufactures, Business and Mineral Industries comprised all employers (except farmers, State and local governments, and other ineligible classes) who made one or more quarterly payments in 1954 under the Federal Insurance Contributions Act. The list, which was obtained from the Internal Revenue Service (IRS) of the Treasury Department, contained all of the information necessary for mailing the Census questionnaires except the industry classification of the employer.

The IRS list was matched with various lists containing the industry code number (Standard Industrial Classification) which was required for selection of the appropriate Census report form. The matching operations done mechanically on punch card collating equipment, were made possible by the fact that both the IRS list and the classified lists contained the Social Security employer identification (E.I.) number.

While the IRS list was the basic control mechanism for the Census of Manufactures, the mailing list for the 1953 Annual Survey of Manufactures was the principal device for mailing to large companies. This survey included all large manufacturing establishments (i.e., those with 100 or more employees), which in 1954 accounted for 74 percent of total employment. For smaller establishments, the principal source of industry codes was the "employer master file" of the Bureau of Old-Age and Survivors Insurance (BOASI) of the Social Security Administration. The latter file was supplemented by independent lists for two industrial areas, apparel jobbers and milk bottlers. (The apparel jobber information came from a census commodity survey; the dairy list from an industry source.)



Further mailing list supplementation was necessary for "Multi-unit" companies—those with more than one manufacturing, mining or business establishment. In addition to the 1953 Annual Survey of Manufactures, which provided the principal source of information regarding manufacturing plants of multiunits, a limited pre-canvass was conducted by use of Form NCX-1. This form was sent to about 7,000 large companies and called for a listing of subsidiary corporations. The questionnaires for the smaller multiunits were selected on the basis of BOASI information.

Concerns having Employer Identification (E.I.) numbers on the IRS list which did not match the classified lists, and cases where the E.I. numbers matched but the classified lists did not provide sufficient information for selection of a specific questionnaire, were canvassed by means of a general schedule (NCX-3). The industry code of employers thus canvassed was assigned after receipt of the NCX-3 form on the basis of the information reported on that form. When the establishment filing the NCX-3 form was large or where otherwise necessary, additional information was obtained to complete the appropriate inquiries for the industry to which the establishment was assigned.

In the 1954 Census the report forms were distributed and returned by mail. Personal or telephone contact was made only when the manufacturer failed to respond to the initial request or to followup letters. All forms for larger establishments (in general, those with 6 or more employees) were mailed and the followup was controlled from Washington. Questionnaires for smaller establishments were mailed and controlled in the Census Bureau field offices.

## 12. Completeness of Coverage

For the 1947 Census, coverage was checked by an intensive field study of sample geographic areas, designed to measure losses due both to deficiencies in the original mailing list and to errors in processing (e.g., industry coding) after the questionnaire had been mailed and received. The results of this study indicated that 98.2 percent of the total manufacturing employment and 98.7 percent of total wages and salaries were covered in the 1947 Census statistics. The undercoverage was largely limited to small establishments and was of some importance in industries where establishments frequently combine manufacturing and merchandising activities (for example, production of prepared feeds combined with the retailing of farm supplies). Establishments operating during only part of the Census year, and unincorporated enterprises, constituted a significant proportion of those establishments omitted from the Census totals.

Since deficiencies in the 1947 mailing list were largely responsible for the relatively small "losses" incurred that year and since the 1954 mailing list was considered to be complete, no field coverage check was conducted for the 1954 Census. At various stages of processing of the reports, instead, coverage checks were conducted with the aim of determining whether establishments on the original mailing list were represented in the processing stage under scrutiny. For example, one such check indicated virtually complete mailing of reports to all names on the mailing list. The omissions brought to light through these checks were corrected, (i.e., either the missing reports were located or new reports were obtained). A final check, conducted after the close of collection operations, evaluated completeness of coverage of all establishments in the BOASI files with more than 100 employees. As a result, "missing" establishments in this size group were restored to the tabulations. This final over-all check was not extended to smaller establishments, but a few instances of omission of smaller establishments were discovered and corrected during the review of the Census tabulations.

A large proportion of the omissions discovered (and corrected) among establishments with more than 100 employees was attributable to difficult problems of coverage control among multi-establishment companies. Coverage control was much less difficult for "independent" establishments (companies with only one manufacturing location) and for this reason it was assumed that the

loss rate among small establishments which are largely "independents", was insignificant.

## 13. Manufacturing Employees—Classifications Used

(a) All employees.—The category "all employees" comprises all full-time and part-time employees on the payrolls of operating manufacturing establishments who worked or received pay for any part of the pay period ended nearest the 15th of the months specified on the report form. Included are all persons on paid sick leave, paid holidays and paid vacation during these pay periods; excluded are members of the armed forces and pensioners carried on the active rolls but not working during the period. Officers of corporations are included as employees; proprietors and partners of unincorporated firms, are, however, excluded from the total. Employment at separate administrative offices and auxiliary units is excluded from this category. (See 13b below.)

This total of manufacturing employment is divided into three standard functional classifications (in accordance with the Bureau of the Budget's Standard Specifications for Employment Reports of November 1955, for use by manufacturing establishments in reporting employment, payrolls, and man-hour data), as follows:

Production and related workers.—Workers (up through the working foreman level) engaged in fabricating, processing, assembling, inspection, receiving, storage, handling, packing, warehousing, shipping (but not delivering), maintenance, repair, janitorial, watchman services, product development, auxiliary production for plants' own use (e.g., power plant), record keeping, and other services closely associated with these production operations at the establishment covered by the report. Supervisory employees above the working foreman level are excluded from this category.

Force-account construction workers.—Employees on the payroll of the manufacturing establishment who are engaged in the construction of major additions or alterations to the plant and who are utilized as a separate work force. (Workers engaged in regular maintenance and repair operations are not included here but are classified in the "production and related workers" category.)

All other employees.—Nonproduction personnel of the manufacturing establishment, including those engaged in the following activities: factory supervision above the working foreman level, sales (including driver salesmen), sales delivery (highway truck drivers and their helpers), advertising, credit, collection, installation and servicing of own products, clerical and routine office functions, executive, purchasing, finance, legal, personnel, etc.

(b) Central Administrative Office and Auxiliary Unit Employees.—For the 1954 Census, respondents were asked to report separately any central administrative offices or auxiliary units that were at a different location from the establishments served or at the same location as one of these establishments but not operated as an integral part thereof and administered or served two or more establishments. The functions of employees in central administrative offices include: general company policy determination, planning and management (i.e., company purchasing, accounting, general engineering, direction of company personnel matters, and legal and patent matters). Auxiliaries are storage facilities, garages, repair shops, purchasing offices, sales promotion offices, and research laboratories, serving the plants or central management of the company. Employment and payrolls totals for the central administrative offices and auxiliaries are included in certain tables in the Area and Summary Volumes (see section 9e for additional discussion).

## 14. Manufacturing Employees—Average Employment

In the 1947 Census, the statistics "all employees, number" and "production workers, number" represented averages of reported employment of the mid-month pay period for the 12 months of the year. The 1954 Census report forms requested employment figures for only four selected pay periods (i.e.,

midmonth employment in March, May, August, and November) in all but seasonal industries.

This latter approach was initiated in the intercensal Annual Survey of Manufactures to simplify the schedule format and lighten the reporting burden of respondents, inasmuch as it was found that the average of these selected pay periods approximates very closely the average that would be obtained from the 12 monthly pay periods for almost all industries. A study of the 1947 Census data indicated that the difference between average employment based on the specified 4 pay periods and average employment derived from 12 monthly figures was less than one percent for 376 of the 452 manufacturing industries and less than 3 percent for 442 industries, or 98 percent of all industries. The remaining 10 industries showed a variation of 3 to 9 percent.

In the 1954 Census, the midmonth pay period of the middle month was used for the last three quarters of the year. For the first quarter of the year, however, the mid-March, rather than mid-February, pay period was selected in order to tie-in with the identical pay period for which employment data are reported to the Bureau of Old-Age and Survivors Insurance. This permits coordination of Census and BOASI establishment employment records, both for the purpose of a census "universe" control in census years, and in intercensal years for the tabulation of "County Business Patterns" data which are directly comparable with the Annual Survey of Manufactures estimates for industry groups, States and geographic divisions. Further analysis of the 1947 Census disclosed virtually no change in the 4-month employment average by selecting mid-March rather than mid-February as the representative pay period for the first quarter.

In the 1954 Census, therefore, the four selected pay periods mentioned above were used on all census report forms, except 15 covering 40 seasonal industries. A supplemental inquiry was included on the report form for such industries, requiring the midmonth total employment for each of the 12 months of the year. For this purpose, seasonal industries were defined as those in which one of the following conditions held in any one of the years 1947, 1950 or 1952:

(a) Average annual employment based on March, May, August and November differed by 2 percent or more from the average based on all 12 months of the year.

(b) The ratio of employment in the lowest of the 12 months to employment in the highest month fell below 75 percent.

#### 15. Manufacturing Employees--Payrolls

This total includes the gross earnings paid in the calendar year 1954 to all employees on the payroll of operating manufacturing establishments. Respondents were told they could follow the definition of payrolls used for calculating the Federal withholding tax. It includes all forms of compensation such as salaries, wages, commissions, dismissal pay, all bonuses, vacation and sick leave pay, and compensation in kind, prior to such deductions as employees' Social Security contributions, withholding taxes, group insurance, union dues, and saving bonds. The total includes salaries of officers of these establishments, if a corporation; it excludes payments to the proprietor or partners. Also excluded are payments to members of armed forces and pensioners carried on the active payroll of manufacturing establishments.

The 1954 Census definition of payrolls, identical to that recommended to all Federal statistical agencies by the Bureau of the Budget, is also the same as the 1947 Census definition. It should be noted that this definition does not include employers' Social Security contributions, or other nonpayroll labor costs such as employees' pension plans, group insurance premiums, and workmen's compensation. Force-account construction worker wages are included in total payrolls even though such wages are a cost charge to the manufacturer's capital account rather than a current production cost. However, these wages represent an inconsequential fraction of total manufacturing payrolls, as most construction of new plants or additions to existing plants is performed on a contract basis, either by independent construction firms or separate construction subsidiaries of manufacturing concerns.

As in the case of employment figures, the payrolls of separate central administrative offices and auxiliary units of multiestablishment companies are not included in the totals for individual industries or industry groups but are shown in table 1 of each State report and selected other tables in the Area and Summary Volumes.

#### 16. Production and Related Worker Man-Hours

This total consists of all plant man-hours of production and related workers as defined above. It represents all man-hours at the plant worked or paid for, including actual overtime hours (not straight-time equivalent hours). It excludes hours paid for vacations, holidays, or sick leave, when the employee was not at the plant. Where employees elected to work during the vacation period, only actual hours worked by such employees were reported.

The production worker man-hours total for an industry, as collected in the Census, provides a comprehensive measure of labor input, taking into account both the number of production workers and their actual hours of work.

As in the 1947 Census and subsequent Annual Surveys, 1954 man-hours data were requested by quarter for the calendar year, on the basis of 1947 Census pretests. These pretests indicated that quarterly data could be reported more readily than either monthly or annual data. The man-hours figures issued by the Census differ from those published monthly by the Bureau of Labor Statistics which cover all hours paid for, whether or not worked, and relate only to the payroll period ending nearest the middle of each month. The 1954 Census definition of man-hours (i.e., all man-hours at the plant, including "stand-by" hours paid for) is a clarification, without altering the desired concept, of the 1947 definition which simply called for all man-hours worked.

Man-hours were generally well reported except in the case of small establishments which, as in the 1947 Census, experienced some difficulty in distinguishing between production and other types of workers, and except for some industries like apparel where work is commonly performed on a piece rate basis. Where man-hours were not reported and it was not feasible to obtain the information by correspondence, the data were estimated. Because this estimating was largely confined to small establishments, there is no significant qualification to the validity of overall industry and geographic area totals for man-hours, except for sawmills and a few other industries characterized by small establishments or by other limitations in their record-keeping affecting the reporting of man-hour information. However, the man-hour figures for establishments with fewer than 10 employees, shown in the Size of Establishment chapter of the Summary Volume, should be interpreted with this factor in mind.

#### 17. Cost of Materials, etc., Consumed

A summary inquiry on the 1954 Census report forms requested information on the cost of materials, supplies, semi-finished goods, fuels and electric energy, actually consumed or put into production during the year, whether purchased, withdrawn from inventories, or received from other establishments of the company, as well as the cost of contract work. "Cost" refers to direct charges actually paid or payable for items consumed or put into production during the year, after discounts, and including freight charges and other direct charges incurred by the establishment in acquiring these materials.

Under the general heading "Cost of materials, etc." separate figures were obtained for (a) the total delivered cost of all raw materials, semi-finished goods, parts, components, containers, scrap, and supplies consumed or put into production; (b) the amount paid for electric energy purchased; (c) the amount paid for all fuels consumed for heat, power, or the generation of electricity; and (d) the cost of work done by others on materials or parts furnished by the reporting manufacturing establishment (contract work). The cost of materials figure published for each industry does not include the separately reported cost of products bought and resold in the same condition; also, it excludes the cost of purchased services, such as advertising, insurance, telephone, and research; it excludes overhead costs,



such as depreciation charges, rent, interest, etc.; it excludes materials, machinery and equipment used in replacement or expansion of plant or capitalized repairs which are chargeable to fixed assets accounts.

Where the respondent's records did not show the actual amounts consumed or put into production during 1954, he was permitted to enter purchase figures provided purchases closely approximated consumption during the year. For minor materials and supplies, the substitution of purchase records was accepted regardless of the variation between purchases and consumption. If for any major material, however, the two measures differed significantly, the manufacturer was instructed to derive an estimated consumption figure by adding purchases (or receipts) to amounts on hand at the beginning of the year and subtracting amounts on hand at the end of the year. While it was not feasible to audit the resulting figures reported for materials and supplies consumed, enough checks of consistency were made so that it is believed that the aggregates reported are close approximations of actual consumption.

In the case of materials received from other plants of the same company or from a central materials depot (whether at the same or different physical location), the respondent was asked to approximate the commercial value of these materials, including freight and other direct handling charges. For some industries in which there was no satisfactory market counterpart of the transferred material, special instructions were necessary. The respondent was also asked, where possible, to check that such approximated costs exceeded the value of shipments reported by the company's plant producing and transferring the goods only by the addition of freight and other direct charges.

It should be noted that the cost of fuel consumed under (c) above (including anthracite and bituminous coal, natural and manufactured gas, fuel oil, liquefied petroleum gas, and other fuels) does not include fuel used as a material in the manufacturing process, for example, coal used in the production of coke. Such costs were included with other materials costs in category (a) above.

A summation of industry figures for cost of materials would result in large and unknown amounts of duplication in industry group totals, owing to the addition of costs reported by related industries engaged in successive fabrication stages in the production of finished manufactured products. For this reason, cost of materials figures are not shown at the industry group (3-digit) and major industry group (2-digit) levels. With some important exceptions (such as Blast Furnaces and Steel Mills, Radios and Related Products, and Motor Vehicles and Parts), this duplication is not significant within individual industries.

#### 18. Individual Materials Consumed

In addition to the total cost of materials, fuels, etc., which every establishment was required to report, quantity and cost information was collected on the use of 433 specific materials. Consumption information was also collected for an additional 762 items as part of the product sections of the report forms. The latter group typically consisted of items which were produced and also consumed by the producing establishments or by other establishments in the same industry. For example, many chemical plants produced a basic chemical and then used it in further processes. Also in the steel industry, data on receipts and consumption of mill shapes were obtained as part of the inquiry calling for the production and shipments of these shapes.

Materials were covered in two ways. For 230 materials, every industry that consumed appreciable quantities of the material was canvassed so that the data would represent at least ninety percent of the total consumption by manufacturing industries. For the remaining 203 materials, information on consumption was obtained on a more limited basis, generally only from those industries in which the materials were an important part of total material costs. Of the 762 products for which consumption information was obtained, industries accounting for ninety percent or more of manufacturing consumption were covered for about 300 items.

Because American industry uses an enormous variety of materials, the number of materials for which "complete" coverage consumption data (90 percent or higher) were obtained had to be strictly limited. The selection of a particular material for such coverage was therefore based on the following criteria:

- (1) The importance of the material as measured by the total value of United States consumption of the material
- (2) The percentage of total consumption accounted for by manufacturing establishments
- (3) The availability of consumption information from manufacturers' records
- (4) In certain instances, other factors such as the strategic importance of the material or the availability of historical data on the use of the material.

The materials included on a limited coverage basis were chosen not only because they constituted important inputs for particular industries but, frequently, because they provided necessary classification-type information and other indirect measures. For example, an industry's production was of a heterogeneous character and materials consumed afforded a better measure of physical output than could be obtained from available production data.

Tabulated data on the materials consumed in an industry are usually shown in the report for that industry. In addition, for the 230 materials covered on a complete basis (see above), consumption by all industries and, frequently, by States is shown in the Summary Volume. The data on materials consumed relate generally to the quantity and cost of materials purchased from other companies or obtained from other plants of the same company. However, for selected materials which are also importantly produced for use within the same establishment, information was requested on such captive production in quantity terms only.

Some undercoverage exists in the statistics for most individual materials. This undercoverage results from the fact that:

- (1) Individual materials consumption information was obtained only from establishments using one of the Census of Manufactures standard forms. For the most part, therefore, plants with fewer than six employees are not represented in the statistics. A rough indication of the effect of short forms on the materials covered can be derived from an analysis of the size of establishment tables which appear in the industry reports in the Industry Volume and in a separate chapter of the Summary Volume.
- (2) Establishments consuming less than a specified amount of a material were not requested to report consumption of the material separately. For the majority of individual materials, the minimum amount was \$5,000.

The use of such cut-offs, as well as short forms, is not believed to have had a significant effect on the totals for most materials. However, for industries where a sizeable proportion of the activity is accounted for by small establishments or where a specified material is used in relatively small quantities, the above limitations may be of some consequence.

In the area of metal mill shapes and castings, the minimum amounts to be reported separately in the 1947 Census were 50 tons for carbon steel shapes, 25 tons for alloy steel and 10 tons for stainless steel, nonferrous mill shapes and castings. The reporting cut-off for each of these metals in 1954 was \$5,000. Because of the dominance of large consuming establishments in the totals for these materials, however, the effect of the difference in cut-offs between the two years is believed to be negligible.

#### 19. Value of Shipments

The amounts under value of shipments both for industries and for individual products or classes of products are the received or receivable net selling values, f.o.b. plant, after discounts and allowances, and excluding freight charges and excise taxes.

However, where the products of an industry are customarily delivered by the manufacturing establishments (bakery products, fluid milk, soft drinks, for example) the value of shipments is based on the delivered price of the goods rather than the f.o.b. plant price. For the tobacco and other industries where excise taxes are important, such taxes are covered separately.

Under the general heading of shipments, manufacturers were asked to include all items, made by or for each establishment from materials owned by it, whether sold, transferred to other plants of the same company, or shipped on consignment. Also included were receipts for contract work and for such miscellaneous activities as sale of scrap and refuse, installation work by manufacturing plant employees, research and development work, and repair work. The net selling value of products made in one plant on a contract basis from materials owned by others was reported by the plant providing the materials. The value of products bought and resold without further processing (merchandising) was reported separately and is excluded from the value of shipments figures shown in all tables; the value and cost of resales are, however, shown separately in table 3 of the Industry Volume.

In the case of multi-unit companies, the manufacturer was requested to report the value of products transferred to other establishments of the same company (i.e., other manufacturing plants, separate sales branches, or retail stores) at "the nearest approximation to corresponding commercial values, f.o.b. plant, and not the cost of production."

The industry "value of shipments" is necessarily different from the value of shipments of the group of products regarded as "primary" to the industry. The value of shipments of primary products of an industry (Tables 5 and 6 of the Industry Volume) includes the value of such products reported by all producers, including those establishments in other industries which make these items as "secondary" products. However, that value does not include the value of secondary products of establishments classified in the industry, nor receipts of such establishments for contract work and other miscellaneous activities. The general use of shipments as the basis for valuing the output of manufacturing industries differs from the practice for all censuses except those for 1947 and 1929. The selection of shipments in recent censuses was made in order to facilitate direct reporting from records of sales, shipments, or billings. Value of shipments for 1954 and 1947 may, however, be directly compared with value of products for earlier years. In the first place, it is likely that in earlier censuses many manufacturers valued their output in terms of shipments even though value of production was requested. Secondly, the changes in the value of finished goods inventories for most industries were of minor importance and there was, therefore, little difference between production and shipments in 1954, 1947, and 1939 Censuses. The "value of production" was requested in the 1954 Census for a relatively few industries where such records are generally maintained in place of shipment figures and reporting of the latter would have involved undue difficulty for the respondent. These instances are noted in the tables and descriptive text for the industries involved.

## 20. Individual Products

For 1954, as for 1947, data were collected for almost all industries on the quantity and value of individual products shipped. In the 1954 Census, information was collected on the output of approximately 7,000 individual product items. The term "product" as used in the Census of Manufactures represents the finest level of detail for which output information was requested. Consequently, it is not necessarily synonymous with the term product as used in the marketing sense. For example, all grades of automotive gasoline were reported as a single item. On the other hand, cotton broad-woven goods were distributed into nearly 200 items.

The list of products for which separate information was collected in the 1954 Census was based on the product categories selected for the 1947 Census of Manufactures after extensive consultation with industry and government representatives. This 1947 Census list was reviewed in preparation for the 1954 Census

and modifications were made in many instances, although less extensively than in 1947. In readjusting the list of products, comparability with previous figures was given considerable weight. Comparable 1947 information is presented for most products, therefore, at some level of detail.

Typically, quantity and value of shipments information was collected for each product. In some cases quantity was not significant or could not be reported by manufacturers, largely because of the wide range of sizes, prices or different types of products included in the category. For these products, only value of shipments was collected. Shipments include both commercial shipments and transfers of products to other plants of the same company. For products for which a considerable portion of the total shipments is transferred to other plants of the same company, separate information on such interplant transfers was also collected. Moreover, for products which are used to a large degree within the same establishment as materials or components in the fabrication of other products, total production and often consumption of products produced in the same establishment were collected. Production data were also collected for products for which there are significant differences between total production and total shipments. Other measures of output of products, such as "value of work done" for products with long production cycles, were used as appropriate and feasible.

## 21. Classes of Products

For the purpose of summarizing the product information, the separate products were aggregated into "classes of products" which were in turn grouped into all "primary" products of each industry. The code structure used is a 7-digit number for the individual products, a 5-digit code for the class of product, and a 4-digit code for the total primary products in an industry.

The 7,000 product items in the 1954 Census were grouped into approximately 1,000 separate classes on the basis of general similarity of manufacturing processes, types of materials used, and the like. However, the grouping of products was affected by the economic significance of the class, and in some cases, dissimilar products were grouped because they were not sufficiently significant to warrant separate classes.

The product class was developed in order to provide an intermediate level of classification for output information. Because of the reduced number of separate items and the increased number of companies producing the class of products, additional tabulations of output information, e.g., product class by State (table 6B of the Industry Volume) are feasible more frequently than would be possible for individual products. The increased number of companies minimizes the problem of protection against disclosure of individual company information and the smaller number of items (product classes) reduces the cost of tabulation.

## 22. Duplication in Cost of Materials and Value of Products

The aggregate of the cost of materials and value of shipments figures for industry groups and for all manufacturing industries includes large amounts of duplication owing to the use of products of some industries as materials by others. With some important exceptions, such as Motor Vehicles and Parts, this duplication is not significant within individual industries but arises from the addition of statistics for related industries representing successive stages in the production of a finished manufactured product. Examples are the addition of flour mills to bakeries in the Food Group and the addition of pulp mills to paper mills in the Paper and Allied Products Group of industries. Estimates of the over-all extent of this duplication indicate that the value of manufactured products exclusive of such duplication—the value of finished manufactures—tends to approximate two-thirds of the total value of products reported in the Census of Manufactures. Because of the unknown and varying amounts of duplication contained in cost of materials and value of products, these figures are not shown for groups of industries or for geographic areas in this census and are also eliminated for approximately a dozen individual industries containing significant amounts of duplication.



Even where no significant amount of duplication is involved, value of shipments figures are deficient as measures of the relative economic importance of individual manufacturing industries or geographic areas, because of the wide variation in ratio of materials costs to labor and other processing costs, both among industries and within the same industry.

### 23. Value Added by Manufacture

This measure is derived in the 1954 Census (as it was in the 1947 Census and intervening annual surveys) by subtracting the cost of materials, supplies, containers, fuel, purchased electric energy, and contract work, from the value of shipments of manufacturing establishments. It avoids, therefore, the duplication in the value of shipments figure which results from the use of products of some establishments as materials by others. It is considered to be the best value measure available for comparing the relative economic importance of manufacturing among industries and geographic areas.

Value added by manufacture should not be confused with "national income originating in manufacturing," as presented in the national income estimates compiled by the Office of Business Economics, Department of Commerce. The latter measure is the sum of factor costs incurred by an industry in production. It excludes, in addition to cost of materials, such other costs as depreciation charges, State and local taxes (other than corporate income taxes), allowance for bad debts, and purchases of services from nonmanufacturing enterprises, such as contract costs involved in maintenance and repair, services of development and research firms, services of engineering and management consultants, advertising, telephone and telegraph expense, insurance, royalties, patent fees, etc. It is, therefore, a more "net" concept of value added than that used in the Census of Manufactures.

In part, the "national income originating" estimates are prepared from company rather than establishment data. This results in the inclusion of some part of the net value added (or a logical approximation of it) by nonmanufacturing establishments of companies classified as being primarily manufacturing; and conversely, in the exclusion of some part of the net value added by manufacturing establishments of companies classified as primarily nonmanufacturing. It is believed that for manufacturing as a whole the net effect increases income originating. (In fact, in the Petroleum and Coal Products major industry group, nonmanufacturing activities of manufacturing companies are so significant that this is the one major industry group in which O.B.E. "income originating" exceeds Census "value added by manufacture.") Many of the items that must be deducted from "value added" to arrive at an income originating figure can be reported on an establishment basis only with considerable difficulty, if at all.

Another distinction between the Census value added and O.B.E. income originating statistics arises from the treatment of net changes in inventories of work-in-process and finished goods. The census figure is based on shipments, and hence does not reflect net changes in these inventories during the year. The O.B.E. estimate makes allowance for inventory changes.

For industries in which intra-company transfers constitute a significant part of total cost of materials or value of shipments, the Census value added is subject to certain limitations arising from the assignment of values to the products transferred. To the extent that manufacturing companies assign to products shipped from one establishment of the company (classified in Industry A) to another (in Industry B) values that reflect only cost of production without adequate allowance for overhead and profit, the value added in Industry A will be understated whereas that for Industry B will be overstated. For related groups of such industries and for manufacturing as a whole, this imbalance cancels out, of course, and the aggregate value added is without distortion due to problems of transfer valuation.

In the calculation of value added for the 1954 Census and prior years, products bought and resold in the same condition (resales) are excluded from both the value of shipments and the cost of materials, etc. However, value added by manufacture including value added by resale and the net change in work-in-

process and finished product inventories is shown for 1954 in a special table in the Summary Volume. It is planned that this more comprehensive concept will be followed in future censuses and annual surveys of manufactures.

### 24. Inventories

The value of beginning-of-year and end-of-year inventories held by each manufacturing establishment, except for those in Printing and Publishing, was obtained in the 1954 Census. Based on the successful experience in the 1953 Annual Survey of Manufactures, separate inventory figures were requested for: (1) finished products; (2) work-in-process; and (3) materials, supplies, fuel, and other inventories. In the earlier Annual Survey years and in the 1947 Census, inventory data had been collected for only two major categories: (1) finished products and (2) work-in-process, materials, supplies, and other inventories.

Respondents were asked to report their inventories at approximate current costs if feasible; otherwise "at book values." Since different methods of inventory valuation are used (LIFO, FIFO, etc.) the meaning of the value of inventories aggregate for all establishments in an industry is not precise. The figures on change in inventory between the beginning and the end of the year are of considerable significance.

Establishments were asked to report total inventories and a distribution of inventories by materials, work-in-process, and finished goods. However, an item treated as a finished good by an establishment in one industry may be reported as a raw material by another establishment in a different industry. For example, the finished product inventories of a steel mill would be reported as raw materials by a stamping plant. Such differences are present in the inventory figures by stage of fabrication shown for individual industries, industry groups, and all manufacturing which are merely aggregates of figures reported by establishments in specified industries. It should be noted further that the total finished goods inventory for all manufacturing includes items that are not finished manufactured products.

For a few industries in the food group there are special problems in the handling of inventories by stage of fabrication. These are industries in which the products are usually stored under controlled conditions and the products are aged. Included among such types of products are stemmed and dried tobacco, cheese, and whiskey. It is not clear whether such products should be treated as finished goods inventories or as work-in-process while in storage. In all of these industries substantial finished goods inventories have been reported. These data have been summarized in the inventory tables in a consistent manner for all of the years included in this report. The Census Bureau is investigating this problem further.

The total end of 1954 inventory of \$40.3 billion reported in the Census of Manufactures by manufacturing establishments is lower than the total inventory of \$43.5 billion estimated for manufacturing companies by the Office of Business Economics for the same date. This difference is mainly attributable to the fact that the Census of Manufactures total includes only the inventories of manufacturing establishments while the O.B.E. inventory is a total for manufacturing firms. The sales branches alone, among the nonmanufacturing establishments of manufacturing companies, reported inventories of \$2.2 billion in the 1954 Census of Wholesale Trade.

### 25. Expenditures for Plant and Equipment

In the 1954 Census, manufacturers were asked to report expenditures made during the year for permanent additions and major alterations to their plants, as well as for machinery and equipment purchases, that were chargeable to fixed-asset accounts of manufacturing establishments and were of a type for which depreciation accounts are ordinarily maintained. Capital expenditures during 1954 were to be determined by the following computation: additions completed during the year, plus construction in progress at the end of the year, minus construction in progress at the beginning of the year. Expenditures for machinery and equipment were to include those made for re-



placement purposes, as well as for additions to plant capacity. Excluded from such expenditure totals are costs of maintenance and repairs charged as current operating expenses. Also excluded are expenditures for land and expenditures made by owners of plants and equipment leased to manufacturers.

In addition to total capital expenditures, respondents were requested to indicate the following subtotals: (a) new structures and additions to plant (including major alterations and capitalized repairs and improvements); (b) new machinery and new equipment (including capitalized repairs and improvements); and (c) expenditures for used plant and used equipment acquired from others (including the United States Government). This three-fold breakdown of capital expenditures, also used in the 1949-1953 Annual Surveys, represents a contraction of the detail obtained in the 1947 Census when item (a) above was subdivided into buildings and other construction, and item (b) into production machinery and other machinery. The publication of statistics on capital expenditures is generally confined to new plant and equipment (items (a) and (b) above).

In the 1947 Census and the 1949 and 1950 Annual Surveys, data on capital expenditures related only to manufacturing establishments that were in operation at some time during the report year. They did not include expenditures incurred during the year for constructing and equipping new plants not yet in operation, or for renovating idle establishments. To close this statistical gap, such supplemental capital expenditures data were obtained in the 1951-1953 Annual Surveys, and again in the 1954 Census, by means of a special company report form. The 1954 report form (Form MC-D3) collected capital expenditures detail for each manufacturing plant under construction or renovation from the approximately 1,700 largest manufacturing companies. In addition, reports were obtained from about 600 smaller companies, selected as a representative sample of all other manufacturing concerns. Based on the 1951-1953 Annual Survey experience, the relative contribution from such smaller companies to this "under construction or renovation" segment of expenditures is ordinarily less than one-tenth of the estimated total.

The capital expenditures figures in the Industry and Area Statistics Volumes do not cover idle plants and plants under construction that were not put into operation within the year 1954. Data on this type of capital outlay are shown by industry group and by State in Volume I, Summary Statistics.

The census figures on capital expenditures differ from those estimates published from the joint Office of Business Economics-Securities and Exchange Commission sample survey. In addition to the sampling variation present in the latter data, a major source of difference is to be found in the scope of the two series. Census data relate only to manufacturing establishments, whereas the OBE-SEC series on expenditures, covers all establishments, manufacturing and nonmanufacturing, of companies classified as manufacturing concerns. This factor is particularly important in the petroleum industry, where company expenditures for developing new wells and new distribution facilities are ordinarily much larger than their capital expenditures at refineries. The OBE-SEC series excludes from the totals for manufacturing industries firms which operate manufacturing establishments but are primarily nonmanufacturing companies. Both series, it should be noted, exclude expenditures for plant and equipment at establishments owned by the Federal Government but operated under lease or contract by private companies.

## 26. Fuels, Electric Energy, and Water

Detailed statistics on use of fuels by manufacturing establishments for power and heat were collected in the 1954 Census of Manufactures. Separate figures were collected for coal, coke, fuel oil, gas, and other fuels. For each of the fuels with the exception of "other" fuels, both quantity and cost were collected. For "other" fuels, only cost was collected. The fuels reported in this inquiry exclude those used by manufacturing establishments as a raw material. For example, coal consumed in the manufacture of coke is not included in the fuel statistics.

However, data on such consumption are included in the materials consumed tables in the Industry and Summary Volumes.

Data were also collected on the use of electric energy in manufacturing. Separate figures were collected for the quantity and cost of electric energy purchased, the quantity of electric energy generated, and the quantity and value of electric energy sold.

Statistics on the industrial use of water were collected in 1954 for the first time in a Census of Manufactures. Comparable water use information had been obtained as part of the 1953 Annual Survey of Manufactures to meet a growing need for data on this important natural resource. (See Section 9f.) The water use statistics are shown by industry, State and water use region in Volume I, Summary Statistics.

## 27. Horsepower of Equipment

For the first time since 1939, statistics on horsepower rating of power equipment were collected. Such information had been requested prior to 1939 in periodic censuses as far back as 1869.

For prime movers, separate statistics in terms of total horsepower rating were collected for movers driving generators and movers not driving generators. Similarly, the horsepower rating of electric motors (excluding fractional horsepower motors) was obtained. In order to derive a measure of aggregate horsepower, the figures for electric motors were divided between motors driven by purchased energy and motors driven by energy generated within the same establishment. For establishments both generating and purchasing electric energy, the electric motor horsepower was split on the basis of the ratio of quantity of electric energy purchased to quantity generated in the establishment. The aggregate horsepower was then derived by summing the prime mover horsepower figures with the horsepower of electric motors driven by purchased energy. In this manner, duplication of horsepower between prime movers driving generators and motors driven by generated electric energy was eliminated. The problem of estimating the separation of the electric motor horsepower was limited inasmuch as the great majority of manufacturing establishments do not generate electric energy.

Horsepower of stand-by equipment as well as equipment in operation at the end of the year was requested. Included were all movers and motors in mobile as well as stationary equipment. Only motors driving highway-type motor vehicles were excluded.

## 28. Selected Metalworking Operations

For all industries in S.I.C. Major Groups 34 to 37 inclusive, and Group 19, and selected 4-digit industries in Group 33, the 1954 Census of Manufactures included a special inquiry on "Selected metalworking operations" to provide a measurement of the metalworking facilities in manufacturing. The following metalworking operations were included in this inquiry: foundry (except die casting); die casting (nonferrous metal only); forging-presses, hammers, or upsetters; electroplating; galvanizing and other hot-dip coating; heat treating or annealing of metals for production purposes; automatic screw machine department; machine shop; tool and die room, if separate from machine shop; pattern shop (foundry patterns only-metal, wood, etc.); plate or structural fabrication; and stamping, blanking, forming or drawing. The number of establishments performing these operations, classified by size of the specific operation, is shown by industry in the Industry Volume and in Chapter XII of the Summary Volume and by geographic division and State in the Summary Volume. The size distribution is based on the number of production workers usually employed in the operation. In addition, the actual number of production employees is given for the total of operations usually employing 20 or more workers. A column showing total estimated production workers for all establishments engaged in each of the metalworking operations is also included in the Summary Volume chapter.

Information on these metalworking operations was obtained for practically all industries where such operations are con-



sequential. In many of these industries, however, small establishments reported on a short form that did not include the inquiry on metalworking operations. Also, a few larger establishments that filed standard forms did not report their metalworking operations. This has resulted in an understatement of the number of establishments maintaining specific operations, primarily in the smallest size class, and to a much lesser degree an understatement of the total number of production workers in the operations. An approximation of the understatement in terms both of number of establishments and total employment is provided in the appropriate tables. The employment coverage is over 90 percent for nearly all industries and close to 100 percent for the larger metal consuming industries. The coverage is highest in industries which have few establishments with less than 6 employees. This type of operations information is useful in conjunction with the specific materials consumed data and with general relationships between materials cost and value of shipments in studying the extent of integration in specific industries. Moreover, this information measures approximately the extent to which these operations, which for the most part define individual industries, are conducted by establishments classified in other industries in the metal products area.

### 29. Selected Equipment Data

Detailed data on equipment were obtained from textile mills (S.I.C. Major Group 22, except 225, 2274, 228 and 229) and oil-seed crushing mills (S.I.C. Group 288) and are shown in the sections on those industries in the Industry Volume. The textile inquiries provided an inventory of selected items of equipment used in fiber preparation, spinning, weaving, and finishing; the oil mill inquiries secured information on various types of presses and the quantities of crushed seed and oil produced.

Information on storage capacity was collected from dairies (S.I.C. Group 202), grain mills (Industries 2041-43), ice plants (Industry 2097), tobacco plants (Major Group 21), and petroleum refineries (Industry 2911). These data which were obtained primarily to supplement similar inquiries included in the Census of Business are also shown in the Industry Volume.

### 30. Distribution of Manufacturers' Shipments

Information on the volume of goods shipped to various classes of customers (wholesalers, retailers, industrial users, etc.) was collected for the 28 industries or commodity groups listed below:

Industry or Commodity Group	Related S.I.C. Industry
Confectionery	2071-72
Soft drinks	2081
Hosiery	2251, 2252
Carpets and rugs	2271, 2273
Linoleum	2274
Printing and publishing	2731
Drugs and medicines	2831, 33, 34
Paints and paint products	2851, 52, 53
Essential oils, perfumes and cosmetics	2893
Petroleum products	2911, 2992
Shoes and slippers, other than rubber	3141, 42
Heating and cooking apparatus (including electric)	3432, 3439, 3621
Service-industry and household machines	3581, 3589
Refrigeration and air conditioning equipment	3585
Storage batteries	3691
Sporting and athletic goods	3949

This inquiry was originally planned to be similar in scope to the "Distribution of Manufacturers' Sales" inquiry in the 1939 Census of Manufactures. The 1939 distribution item covered 402 of 446 industries, and the information requested was identical for all the industries covered (with slight modifications for

certain textile industries). During the clearance of the 1954 Census forms, however, the Advisory Council on Federal Reports indicated the desirability of limiting the inquiry to industries which typically maintain records of shipments by class of customer and have a diversified distribution pattern and, furthermore, of adapting the inquiry in accordance with the customer channels of the particular industry. It was suggested by members of the Council, and later confirmed by a check of the Census reports, that the 1939 inquiry was poorly reported because of the lack of standardization among records maintained by manufacturers. Extensive conferences with industry representatives were held and, as a result, the inquiry was included only on the forms for the industries listed above. The details of the 1954 inquiries adopted differed from industry to industry, although, in general, distinctions were made between (a) interplant transfers, (b) shipments to retailers, (c) shipments to wholesalers, (d) shipments to Government, and (e) export shipments. The inquiries in some instances were confined to shipments of specific commodities, and in others covered the entire shipments of the industry, including both its "primary" and "secondary" products.

### 31. Plant Specialization Data

In response to needs expressed by data users, a program of plant specialization statistics was developed for the 1954 Census of Manufactures. These data provide a more exact measurement of the relationship between the output of an industry and the statistics on employment and payrolls, cost of materials, etc., reported by the same industry. The plant specialization data (in table 8 of the Industry Volume and Chapter XI of the Summary Volume) importantly supplement the information presented in the industry tables 5A and 5B.

Specialization for an establishment is computed in two ways. The first computation is in terms of the ratio of all the primary products of the establishment to its total of primary plus secondary products. The second in terms of the ratio of the largest single product class of the establishment to its total of primary plus secondary products. Receipts for contract and commission work as well as other miscellaneous receipts are not included in the plant specialization computation. Establishments are than grouped according to their degrees of specialization at the two levels. The statistics presented in table 8 group establishments in four specialization ranges for most industries: 90 percent or more, 75-89 percent, 50-74 percent, and less than 50 percent. For each of these ranges at the two levels (all primary products and the product class), statistics are shown on employment and payrolls, value added, cost of materials, and value of shipments.

Not all industries or all product classes are included in table 8 in each of the industry chapters. Industries having a high degree of primary product specialization (90 percent or more—see table 3 of the industry chapters) and including only one product class are omitted since the statistics for the specialized establishments would be approximately the same as those for the entire industry. In addition, selected industries having more than one product class as well as particular specialization ranges within a product class may have been omitted in order to avoid disclosing individual company figures.

Certain product classes are primary to more than one industry. The industry classification of establishments primarily producing such classes of products is determined on the basis of the kind of operation performed in the establishment, e.g., making the product from purchased materials or from materials produced at the same location. In the plant specialization data (table 8), product classes primary to two or more industries are shown in each of the respective industries. For each industry, the specialization data by industry and product class include only those establishments producing the class of product in the manner defined (e.g. lubricating oils from purchased materials).

Table 8 of the Industry Volume permits analysis of an industry in terms of the differences introduced by variation among establishments in the degree of specialization in the products of the industry or subgroup thereof. For example, where the ratios

of various statistics tend to be different for establishments specializing to different degrees in the products of the industry or in different product classes, such ratios for the industry as a whole would be importantly affected by shifts in product mix. It should be noted that for those industries in which a production process results in the manufacture of byproducts or other similarly highly correlated products which are separate product classes in the Census, the degree of specialization in each of the product classes tends to be somewhat lower.

Differences in the degree of integration of production processes within establishments are often more important than the element of product mix. No comprehensive industry by industry measure of variations in production processes among establishments is available in the 1954 Census tables. A partial measure of differences arising from this factor can be derived for some industries through the metalworking operations or other equipment data. For some other industries, data on the production and use of products within the same establishment may be used as an approximate measure (see also discussion in Section 6, Industry Classification of Establishment, concerning differences in process integration, captive production, etc.)

Statistics for establishments highly specialized in the products of their industry classification are also presented in table 3 of the Industry Volume for industries with a primary product specialization ratio of less than 90 percent. This permits a direct comparison of the statistics for the specialized establishments with the totals for the industry. However, the proportion of the total industry represented by the specialized establishments should be considered in the analytical use of the statistics for such establishments.

### 32. Imputation of Data

Each "key" census total called for on the standard forms had its counterpart in the various short forms. The short forms, however, did not require the detailed distribution of such totals (see Section 9, The Census Report Forms). It was necessary, therefore, to impute figures for these missing detail items in order to publish "universe" census totals of manufacturing activity.

Imputation of missing items was made feasible by use of the Census Bureau's high-speed electronic computer, Univac. Imputation factors (or ratios) were developed for each detailed item, taking into account a plant's industry classification, regional location, and employment size. These factors were applied by Univac against the reported total figures. For example, it was thus possible to estimate, for each establishment reporting on a short form, the number of production workers from the reported total employment figure; production worker wages were imputed from reported total payroll, and, in turn, production worker man-hours were developed from the derived production worker wages. Similarly, figures for the three-fold classification of inventories were developed from the reported total inventories. This imputation system was also applied to standard forms on which detailed items were not reported and where the total figures were too small to warrant "follow-up" correspondence on such omitted data.

Estimates of the incidence of imputation of detailed figures for short forms (as well as omitted detail for standard forms) in the 1954 Census indicate that, on the average, such imputation represents less than 5 percent of the published census totals.

For industries characterized by establishments of some size, the percentage of imputation of general measures such as employment and payrolls, cost of materials, inventories, expenditures, and the like is under 5 percent; for the industries in which

small establishments account for a significant portion of the total, the percent may go as high as 10 to 20. Of the various statistics, man-hours worked tended to have a higher degree of imputation than the other items due to certain difficulties in reporting those data by small and medium-size establishments in industries such as sawmills.

The major exceptions to the imputation procedure for missing data were the detailed products and materials, metalworking operations and equipment inquiries. The value of products and the cost of materials, parts, supplies and containers for establishments not reporting the detailed inquiries were treated as "unspecified" materials or products in the appropriate tables. For metalworking operations and equipment, the statistics were based on establishments reporting data, with appropriate measures of coverage shown in the tables.

### 33. Confidentiality of Data for Individual Companies

The Bureau of the Census is prohibited by law from publishing any statistics that disclose information reported by individual companies. In the 1954 Census, as in 1947, preference was given to geographic regions and divisions over individual States in applying disclosure rules; similarly, States took precedence over standard metropolitan areas, while such areas were given preference over counties, and counties over cities. In tables showing industry detail, major industry group (2-digit) totals were given preference over industry group (3-digit) totals which, in turn, had precedence over individual (4-digit) industries. Similarly, in product tables, 4-digit product groupings took precedence over 5-digit product classes; the latter were given precedence over individual 7-digit products.

Such order-of-precedence was used because (1) it was considered preferable to show regional data for an industry, even at the cost of withholding data for another (usually the least important) State in a region, rather than to show all publishable data for the individual States and group the disclosure States throughout the United States in an "all other" category as was done in the 1939 and earlier censuses; and (2) by giving preference to industry group statistics over individual industries within each State, the extent to which individual States can be compared within the S.I.C. industry classification framework is greatly increased.

For each producing State not shown separately in Table 2 of the Industry Volume, a footnote gives the number of establishments and either an employment range or the actual employment figure. The employment is shown in a range if the State had less than 1,000 employees, if it represented the total for only one or two companies, or if the exact figure would permit deriving (by subtraction) the number of employees in other States represented by only one or two companies. In addition, figures for States with less than 100 employees are shown only in the footnote together with the number of establishments and employment in a range.

In the Area Volume, figures are not shown for a county or for an industry within a State, metropolitan area, or principal industrial county if the publication of such statistics would disclose information for individual companies. In table 3 of that Volume, however, the number of establishments is shown for every county and the number of employees for most counties represented by three or more companies. Moreover, all counties having manufacturing establishments are included in table 7, showing for each county the distribution by employment size of establishments in each major industry group.

For industries with few establishments or considerable geographic concentration, it has frequently been necessary to use geographic regions broader than the traditional nine census divisions, in order to show all plants by some geographic group-



ing. For this purpose the following combinations of Census divisions have been used:

NORTHEAST	SOUTH
New England	South Atlantic
Middle Atlantic	East South Central
	West South Central
NORTH CENTRAL	WEST
East North Central	Mountain
West North Central	Pacific

#### 34. Indexes of Physical Volume of Production

The Bureau of the Census, in collaboration with the Federal Reserve Board and the Bureau of Labor Statistics, is calculating indexes of the physical volume of manufacturing production for 1954 relative to 1947, primarily from the product and industry statistics published in Volume II, Industry Statistics, of the 1954 Census of Manufactures. In addition to the index for all manufacturing, separate indexes are published for over half the industries (representing more than three-quarters of the value added by manufacture) and for most of the major industry groups. The present calculations represent a continuation of the indexes for 1947 prepared jointly by the Census Bureau and the Federal Reserve Board and those for the period 1899-1939 constructed by

the National Bureau of Economic Research mainly from Census of Manufactures data. The indexes are published in the form of a separate report.

#### 35. Abbreviations

The following abbreviations and symbols occur frequently in tables and footnotes:

...	zero
xxx	Not applicable
NA	Not available
n.e.c.	Not elsewhere classified
lin.	linear
equiv.	equivalent
hp	horsepower
kwh	kilowatt-hours
D	Withheld to avoid disclosing figures for individual companies
S.I.C.	Standard Industrial Classification

Other abbreviations, such as lb., gal., yd., doz., and bbl., are used in the customary sense. Where the term "tons" only is used, it refers to short tons of 2,000 pounds; where the figures are expressed in tons of 2,240 pounds, the unit of measure is specified as "long tons" or "gross tons."











## Chapter I.—General Summary

## GENERAL SUMMARY

Table 1A.—MANUFACTURING EMPLOYMENT IN THE UNITED STATES: 1944 AND EARLIER YEARS

(For explanation of column captions see Introduction.)

Year <sup>1</sup>	Total manufacturing employment		Employment at operating manufacturing establishments		Employment at administrative and auxiliary units	
	(Number)	Payroll (\$1,000 <sup>2</sup> )	Number	Payroll (\$1,000 <sup>2</sup> )	Number	Payroll (\$1,000 <sup>2</sup> )
1954.....	16,125,550	65,976,667	15,651,294	62,993,321	474,256	2,983,346
1953.....	17,093,004	68,590,424	16,693,076	66,492,872	399,928	2,097,552
1952 <sup>3</sup> .....	16,061,041	61,140,549	15,732,722	59,598,225	<sup>3</sup> 328,319	<sup>3</sup> 1,542,324
1951.....	15,637,957	56,283,787	15,309,638	54,741,463	328,319	1,542,324
1950.....	14,769,931	47,892,894	14,467,149	46,642,786	302,782	1,250,108
1944.....	13,880,050	42,752,032	13,566,949	41,482,008	313,101	1,270,024

<sup>1</sup>Employment data for administrative offices and auxiliaries are not available for the years prior to 1949. See Table 1B for employment data for earlier years.

<sup>2</sup>The employment figures for operating manufacturing establishments for 1949-1953 are estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for these years. The employment figures for administrative and auxiliary units were compiled chiefly from Bureau of Old-Age and Survivors Insurance records and are not strictly comparable with the figures for these units that were collected by the Bureau of the Census for the year 1954.

<sup>3</sup>The 1951 data are shown for 1952 since auxiliary and administrative unit data were not compiled for 1952.



## GENERAL SUMMARY

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Table 1B.—GENERAL STATISTICS FOR OPERATING MANUFACTURING ESTABLISHMENTS IN THE UNITED STATES: 1954 AND EARLIER YEARS

(For explanation of column captions see Introduction.)

Year <sup>1</sup>	Estab- lish- ments (Number)	Proprie- tors and firm members (Number)	All employees <sup>2</sup>		Production workers			Value added by manu- facture <sup>4</sup> (\$1,000)	Capital expendi- tures, new (\$1,000)	Horsepower of prime movers and electric motors <sup>5</sup> (1,000 HP)	Index of physical produc- tion 1939=100
			Number <sup>3</sup>	Payroll (\$1,000)	Number	Man-hours <sup>6</sup> (1,000)	Wages <sup>7</sup> (\$1,000)				
Factories, excluding hand and neighborhood industries:											
1954 <sup>7</sup> .....	286,817	197,850  (NA)	15,651,924	62,993,321	12,373,030	24,341,239	44,595,457	116,912,526	7,818,155	12,342 (NA) (NA) (NA) (NA)	221 NA NA NA NA
1953 <sup>7</sup> .....	285,000		16,693,076	66,492,872	13,500,934	27,065,569	48,979,102	121,659,136	7,541,606		
1952 <sup>7</sup> .....	267,000		15,732,722	59,598,225	12,706,032	25,617,613	43,763,640	109,162,079	7,525,923		
1951 <sup>7</sup> .....	262,000		15,309,638	54,741,463	12,508,914	25,263,764	40,654,832	102,085,814	7,205,059		
1950 <sup>7</sup> .....	260,000		14,467,149	46,642,786	11,778,803	23,716,536	34,600,025	89,749,765	5,110,262		
1949 <sup>7</sup> .....	(NA)		13,566,949	41,482,008	11,016,301	21,769,728	30,253,971	75,366,527	5,066,941		
1947 <sup>8</sup> .....	240,807	188,948	14,293,963	39,695,558	11,917,884	24,316,465	30,243,971	74,290,475	5,998,099	49,893	174 100 101 81 61 70
1937 <sup>8</sup> .....	173,802	9123,655	109,527,306	12,736,112	7,808,205		18,997,515	24,487,304			
1936 <sup>8</sup> .....	166,794	99,268	9,786,402	12,829,749	8,569,231		10,112,883	25,173,539			
1935 <sup>8</sup> .....	167,916	81,521	8,262,295	9,564,754	7,203,794		7,311,329	18,552,553			
1933 <sup>8</sup> .....	139,325	72,267	16,597,925	16,237,800	5,787,611		4,940,146	14,007,540			
1931 <sup>8</sup> .....	171,450	(NA)	(NA)	(NA)	6,163,144		6,688,541	18,600,532			
1929.....	206,663	132,686	9,659,742	14,284,282	8,369,705	(NA)	10,884,919	30,591,435	41,122	93 85 80 75 52	93 85 80 75 52
1927.....	187,629	132,151	9,072,052	13,123,135	7,848,070		10,099,465	26,325,394			
1925.....	183,877	132,971	9,142,417	12,957,707	7,871,409		9,979,649	25,667,624			
1923.....	192,096	147,958	9,474,658	12,996,460	8,194,170		10,148,624	24,569,487			
1921.....	192,059	172,291	7,557,364	9,870,199	6,475,474		7,451,299	17,252,775			
1919.....	270,231	249,865	9,836,801	12,426,902	8,464,916		9,664,009	23,841,624	28,398	60 50 42 33 27	60 50 42 33 27
1917.....	268,436	258,560	7,514,186	5,015,977	6,602,287		3,782,322	9,385,622			
1909.....	264,810	272,421	7,012,066	4,105,470	6,261,736		3,205,213	8,160,075			
1899.....	223,344	225,115	5,674,957	2,990,937	5,181,660		2,440,851	6,019,171			
1897.....	24,754	(NA)	4,850,019	2,258,654	4,501,919		1,892,574	4,646,981			
Factories and hand and neighborhood industries:											
1954 <sup>7</sup> .....	509,490	(NA)	5,478,301	2,595,566	5,097,562	(NA)	2,206,547	5,474,892	10,989	12,533	(NA)
1953 <sup>7</sup> .....	353,864		4,586,494	2,209,058	4,129,355		1,820,854	4,102,301			
1952 <sup>7</sup> .....	253,852				2,732,595		947,954	1,972,756			
1951 <sup>7</sup> .....	252,148				2,053,996		621,467	1,395,119			
1950 <sup>7</sup> .....	140,433				1,311,246		378,879	854,257			
1949 <sup>7</sup> .....	123,025			957,059		236,755	463,983				

NA Not available.

<sup>1</sup>The 1954 figures include data for establishments engaged in the processing and distribution of fluid milk, Industry Group 202, Dairy Products. These establishments were not included in the figures for the Annual Survey years 1949-1953 or earlier Census years. In addition, the 1954 Census and Annual Survey years include data for Logging Camps and Contractors, Industry 2411, which were not included within the scope of the 1947 and earlier Censuses. See footnotes to Table 2A for comparable 1954 and 1947 totals. There were also a number of changes in the definition of manufacturing industries during earlier Census years that affect the comparability of the historical series. Among the more important of these were: figures for 1935 and later years exclude data for "Railroad repair shops" and "Manufactured gas" which were included in 1899-1933 figures; the minimum size of establishment included for 1954-1947 was one employee, for 1939-1921 manufacturing establishments reporting value of shipments of \$5,000 or more were within scope whereas for 1919 and earlier years the cutoff was \$500. (This change in procedure has not appreciably affected the comparability of the historical data except for the figures on number of establishments.)

<sup>2</sup>The figures for 1939-1954 include data for employees at manufacturing establishments who were engaged in distribution and in construction work.

The extent to which data for such employees were included in the figures for earlier years is not known.

<sup>3</sup>The 1949 thru 1954 "Average number of employees" is based on reported employment totals for the payroll periods nearest the 15th of March, May, August, and November except for seasonal industries in 1954 when a 12 month average was used. For 1947, the number of "All employees" represents the average of 12 monthly figures; for 1939 and earlier years, it represents the sum of the average number of production workers for the year and the number of nonproduction workers reported for one payroll period (usually in October).

<sup>4</sup>Value of products shipped less cost of materials, supplies, fuel, electric energy, and contract work. For 1849-1933, cost of contract work was not subtracted from value of products in calculating value added by manufacture.

<sup>5</sup>Driven by purchased energy.

<sup>6</sup>Estimated figure based on Federal Reserve Board data.

<sup>7</sup>Data for 1949 thru 1953 are estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volume for this period.

<sup>8</sup>The figures for 1939, but not for earlier years, have been revised on the basis of retabulation of the returns to exclude data for establishments classified as manufacturing in 1939 and prior years but classified as nonmanufacturing beginning with 1947. Value added by manufacture for 1939, prior to revision and on a basis comparable with 1937 and previous years, was \$24.7 billion.

<sup>9</sup>Not revised to exclude data for establishments classified as manufacturing in 1939 and prior years but classified as nonmanufacturing beginning with 1947.

<sup>10</sup>The 1939 figures for "all employees" were revised on the basis of estimates rather than by retabulation of the 1939 reports. The estimates were made in the following manner: for number of employees, by multiplying the retabulated figure for number of production workers by the ratio of all employees to production workers computed from the unrevised 1939 statistics; for salaries and wages, by multiplying the retabulated wage figure by the ratio for salaries and wages also derived from the unrevised 1939 statistics.

<sup>11</sup>Not including data for salaried officers of corporations and their salaries and, therefore, not strictly comparable with figures for other years.

<sup>12</sup>Does not include data for electric motors.

## GENERAL SUMMARY

Table 2A.—GENERAL STATISTICS FOR OPERATING MANUFACTURING ESTABLISHMENTS

(For explanation of column captions, see Introduction.)

		1954									
Code	Industry group and industry	Primary products specialization ratio <sup>1</sup>	Coverage ratio <sup>2</sup>	Establishments <sup>3</sup>	Proprietors and firm members <sup>4</sup>	All - employees		Production workers		Value added by manu- facture, unad- justed <sup>6</sup>	
						Number <sup>5</sup>	Payroll (\$1,000)	Number <sup>5</sup>	Man.-hours (1,000)		Wages (\$1,000)
	All industries, total.....			286,817	197,850	15,651,294	62,993,321	12,373,030	24,341,239	44,595,457	116,912,526
	Food and kindred products.....			47,374	30,738	1,647,204	6,201,500	1,138,239	2,316,661	3,759,071	13,400,218
	Meat products.....			627	376	94,900	259,000	87,073	162,988	219,736	988,001
	Textile mill products.....			8,070	3,060	1,037,000	3,032,400	947,502	1,821,075	2,526,564	4,748,586
	Apparel and related products.....			31,372	23,044	1,190,064	3,201,705	1,069,867	1,898,999	2,521,135	5,147,371
	Lumber and wood products.....			41,484	41,987	645,300	1,933,520	581,920	1,106,955	1,604,859	3,188,409
	Furniture and fixtures.....			10,273	7,323	340,000	1,197,370	286,649	571,294	892,891	1,966,410
	Pulp, paper and products.....			5,004	1,360	530,000	2,217,000	435,727	919,940	1,656,720	4,580,944
	Printing and publishing.....			32,531	24,329	804,386	3,625,133	499,666	961,465	2,115,344	6,264,558
	Chemicals and products.....	(NA)	(NA)	11,075	3,523	739,300	3,407,199	501,272	1,016,053	2,005,627	9,443,629
	Petroleum and coal products.....			1,381	500	215,000	1,101,114	163,811	322,947	778,408	2,582,613
	Rubber products.....			1,406	523	246,500	1,059,337	196,238	377,414	775,499	1,903,702
	Leather and leather products.....			4,845	2,565	356,570	1,027,314	321,161	586,857	833,694	1,637,417
	Stone, clay, and glass products.....			11,162	7,843	491,000	1,938,000	412,031	827,012	1,496,029	3,821,659
	Primary metal products.....			5,130	2,402	1,117,000	5,097,400	938,511	1,812,027	3,985,548	9,372,910
	Fabricated metal products.....			22,516	13,908	1,019,000	4,397,000	821,172	1,652,366	3,174,186	7,596,275
	Machinery, except electrical.....			25,601	16,558	1,541,000	7,190,500	1,171,323	2,369,610	4,979,972	12,338,923
	Electrical machinery.....			5,758	1,936	959,100	3,950,000	722,443	1,422,339	2,645,588	7,403,134
	Transportation equipment.....			5,348	2,976	1,704,570	8,295,770	1,327,078	2,714,603	6,003,250	13,925,983
	Instruments and related products.....			3,142	1,635	272,500	1,200,200	195,597	391,403	759,453	2,128,706
	Miscellaneous manufactures <sup>7</sup> .....			17,010	11,472	695,000	2,658,100	555,746	1,089,229	1,861,873	4,473,050
20	Food and kindred products.....	(NA)	(NA)	42,374	30,738	1,647,204	6,201,500	1,138,239	2,316,661	3,759,071	13,400,218
201	Meat products.....	97	97	4,992	4,180	311,300	1,234,000	243,135	504,344	898,665	1,930,974
2011	Meat packing plants <sup>11</sup> .....	98	97	2,367	2,021	220,100	942,000	167,815	354,779	687,878	1,394,486
2013	Prepared meats <sup>12</sup> .....	99	102	1,316	990	44,000	186,000	33,767	70,034	124,327	330,312
2015	Poultry dressing.....	96	99	1,309	1,169	46,173	104,000	41,551	79,530	86,459	206,175
202	Dairy products.....	99	99	11,503	8,682	123,000	1,086,000	153,196	332,986	507,163	2,256,738
2021	Creamery butter.....	74	77	1,262	431	21,000	65,000	15,060	32,756	42,920	136,953
2022	Natural cheese.....	93	74	1,419	1,051	13,000	42,000	11,343	25,672	32,826	88,716
2023	Concentrated milk.....	92	68	359	66	13,000	50,500	10,900	24,583	39,338	170,566
2024	Ice cream and ices.....	93	70	1,587	1,072	36,400	134,100	20,982	42,422	64,193	327,898
2025	Special dairy products.....	90	56	187	61	7,300	26,500	5,847	11,701	20,050	56,965
2026	Fluid milk.....	82	94	1,695	1,873	14,000	48,000	9,074	1,000	27,692	98,940
2027	Fluid milk and other products.....	82	94	4,994	4,128	177,311	718,000	79,987	176,922	280,142	1,376,698
203	Canned and frozen foods.....	95	97	3,513	2,051	199,000	573,000	175,366	332,414	442,398	1,301,195
2031	Canned seafood.....	96	94	239	134	15,131	37,000	14,125	20,995	31,147	70,387
2032	Canned fish.....	97	91	90	99	1,726	5,700	1,425	2,803	3,686	10,512
2033	Canned fruits and vegetables.....	90	94	1,758	909	119,000	354,700	105,613	206,076	276,063	830,019
2034	Dehydrated fruits and vegetables.....	95	97	148	92	7,011	23,000	6,102	11,678	16,477	55,176
2035	Pickles and sauces.....	96	75	717	493	21,000	67,000	18,230	35,977	47,594	140,925
2036	Packaged seafood.....	94	95	295	245	12,000	27,100	11,232	18,779	21,549	45,657
2037	Frozen fruits and vegetables.....	98	84	266	74	21,436	59,200	18,638	36,104	45,879	148,517
204	Grain mill products.....	90	90	3,352	2,257	109,000	434,000	79,383	173,331	285,775	1,217,055
2041	Flour and meal.....	94	84	803	555	28,000	119,000	21,447	47,919	83,813	315,143
2042	Prepared animal feeds.....	95	90	1,200	1,006	59,000	225,000	41,290	91,220	138,520	584,135
2043	Cereal breakfast foods.....	97	80	46	6	11,534	51,000	5,140	18,211	38,062	172,283
2044	Rice milling.....	94	100	80	28	3,000	13,000	3,129	7,145	8,397	42,359
2045	Flour mixes.....	71	45	131	62	5,985	25,446	4,366	8,834	16,982	103,134
205	Bakery products.....	99	99	6,414	5,745	291,000	1,124,000	178,778	362,381	587,592	1,977,188
2051	Bread and related products.....	99	99	6,103	5,540	246,000	973,000	143,077	293,871	477,972	1,568,933
2052	Biscuit and crackers.....	97	92	311	205	40,000	150,000	35,700	68,509	109,619	408,294
206	Sugar.....	100	100	137	21	30,100	117,800	25,083	53,204	92,903	250,759
2061	Raw cane sugar.....	100	97	49	21	3,000	8,000	2,719	7,231	7,307	15,431
2062	Cane-sugar refining.....	100	100	23	...	10,000	66,431	12,932	26,061	50,350	138,971
2063	Beet sugar.....	100	100	65	...	11,000	42,453	9,431	19,911	35,245	96,357
207	Candy and related products.....	97	95	1,490	1,078	80,425	254,000	65,917	129,262	181,104	596,211
2071	Confectionery products.....	95	96	1,434	1,074	66,000	201,000	55,220	107,952	143,890	422,314
2072	Chocolate and cocoa products.....	94	89	28	1	8,465	33,133	6,677	13,503	23,219	81,745
2073	Chewing gum.....	100	95	28	1	5,161	20,140	4,019	7,806	14,034	92,150
208	Beverages.....	99	100	5,384	3,334	202,000	867,600	118,755	231,890	460,438	2,237,428
2081	Bottled soft drinks.....	98	99	4,643	3,166	91,616	319,800	41,575	80,584	109,519	635,045
2082	Beer and ale.....	100	100	301	13	81,300	420,000	53,698	105,000	261,497	1,100,741
2083	Malt.....	100	100	45	5	2,000	14,000	2,036	4,096	10,167	48,149
2084	Wine and brandy.....	100	96	262	135	5,000	23,000	4,328	8,393	13,749	96,749
2085	Distilled liquor, except brandy.....	99	100	133	15	21,000	80,000	17,117	32,892	65,504	356,741

See footnotes at end of table.



## GENERAL SUMMARY

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BY INDUSTRY GROUPS AND INDUSTRIES: 1954 AND 1947

For definitions of industries, see Appendix A—Industry Descriptions<sup>1</sup>

1954—Continued		1947										Code			
Value of shipments	Capital expenditures, new <sup>2</sup>	Primary products specialization ratio <sup>1</sup>	Coverage ratio <sup>2</sup>	Establishments	Proprietors and firm members	All employees		Production workers			Value added by manufacture, unadjusted <sup>4</sup>		Value of shipments	Capital expenditures, new <sup>2</sup>	
						Number <sup>3</sup>	Payroll	Number <sup>3</sup>	Man-hours	Wages					
															(\$1,000)
(\$1,000)	(\$1,000)			(Number)	(Number)		(\$1,000)		(1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	
	7,818,155			7240,807	7188,948	714,293,963	739,695,558	711,917,884	724,316,465	730,243,971	774,290,475		75,998,099		
	789,050			(8)	(8)	(8)	(8)	(8)	(8)	(8)	(8)		(8)	20	
	28,018			1,086	874	111,732	205,838	103,289	198,323	175,318	641,356		35,645	21	
	225,914			8,157	4,068	1,232,293	2,832,706	1,146,293	2,306,636	2,447,857	5,322,899		367,510	22	
	76,552			30,963	28,430	1,081,670	2,525,183	973,029	1,811,120	2,014,758	4,439,597		83,945	23	
	217,361			(8)	(8)	(8)	(8)	(8)	(8)	(8)	(8)		(8)	24	
	61,945			7,551	6,112	316,273	806,948	277,909	583,572	641,673	1,346,277		77,441	25	
	532,723			4,100	1,289	454,075	1,294,535	391,715	857,344	1,018,339	2,912,197		406,779	26	
	236,897			28,978	22,685	715,120	2,276,262	437,880	888,254	1,317,573	4,248,773		226,368	27	
(6)	926,613	(NA)	(NA)	10,019	4,034	626,418	1,898,472	464,144	974,684	1,236,012	5,317,001	(6)	804,958	28	
	753,184			1,411	398	207,618	725,983	165,405	354,089	543,362	1,990,944		399,754	29	
	128,431			872	366	258,237	781,378	213,823	423,667	613,189	1,299,491		109,783	30	
	28,053			5,308	3,496	383,264	873,746	348,615	677,001	725,308	1,533,028		31,301	31	
	302,647			11,643	10,323	461,037	1,206,903	404,930	838,320	991,966	2,298,521		285,066	32	
	831,095			5,364	2,893	1,158,158	3,601,791	1,012,008	2,053,663	2,982,736	5,733,028		592,177	33	
	35,431			16,777	12,348	973,174	2,833,684	323,012	1,694,666	2,189,032	4,920,304		304,822	34	
	713,808			17,910	13,159	1,552,135	4,830,125	1,248,921	2,591,220	3,610,392	7,833,970		517,589	35	
	340,677			3,970	1,727	796,357	2,258,657	634,661	1,277,994	1,636,714	3,860,235		244,606	36	
	924,646			3,703	2,534	1,174,498	3,694,932	981,103	1,961,398	2,920,813	5,841,722		354,474	37	
	94,008			2,605	1,661	244,872	706,055	194,303	389,940	502,168	1,140,499		56,000	38	
	176,036			14,148	11,849	463,390	1,205,212	396,002	811,288	917,572	2,066,259		106,960	39	
(6)	789,050	(NA)	(NA)	(8)	(8)	(8)	(8)	(8)	(8)	(8)	(8)	(8)	(8)	20	
(6)	91,362	(NA)	(NA)	3,971	3,249	274,493	782,182	220,702	489,213	584,703	1,279,742	(6)	85,036	201	
9,905,687	64,376	(10)	(10)	2,154	2,058	208,438	623,058	167,135	376,007	468,962	977,144	8,969,876	67,567	2011	
1,415,382	15,617	(10)	(10)	1,264	835	44,485	122,902	34,491	74,584	86,656	234,758	1,600,687	11,565	2013	
1,257,892	10,768	50	88	553	356	21,570	36,222	19,076	38,622	29,085	67,840	478,993	5,904	2015	
(6)	163,123													202	
	926,414													2021	
	551,159													2022	
	9,818													2023	
	727,433	(8)	(8)	(8)	(8)	(8)	(8)	(8)	(8)	(8)	(8)	(8)	(8)	2024	
	295,337													2025	
	352,767													2026	
	4,233,983													2027	
(6)	77,100	(NA)	(NA)	3,825	2,784	201,109	413,041	180,651	351,658	334,284	914,184	(6)	175,105	203	
	238,382	91	96	254	225	20,153	37,207	18,929	30,147	31,755	96,807	226,519	5,266	2031	
	35,536	97	88	127	117	2,431	5,111	2,143	3,789	3,763	9,948	31,077	430	2032	
	2,228,947	49,916	91	2,265	1,545	135,851	283,859	121,921	243,454	230,883	608,768	1,640,754	77,888	2033	
	192,200	3,421	96	90	146	136	3,976	5,622	7,318	6,834	18,155	51,079	1,750	2034	
	481,507	7,579	94	69	742	610	21,335	47,177	18,226	38,004	35,216	121,129	357,860	11,445	2035
	164,625	2,813	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	2036	
	417,140	10,638	100	291	151	17,363	31,542	15,770	28,946	25,833	59,377	155,076	9,166	2037	
(6)	65,348	(NA)	(NA)	4,206	3,531	113,217	311,736	86,063	186,043	216,229	1,001,692	(6)	71,398	204	
	1,858,888	15,240	92	1,243	1,017	39,597	119,533	30,821	74,691	86,000	410,774	2,526,646	27,784	2041	
	2,702,267	36,812	95	89	2,688	2,363	55,152	142,562	40,115	92,368	393,049	2,112,241	34,791	2042	
	345,843	4,403	68	64	25	11,276	30,689	9,496	19,540	25,160	130,188	4,666	3,842	2043	
	266,861	3,538	100	38	59	4,072	9,999	3,267	7,788	6,700	43,432	224,741	3,125	2044	
	254,136	5,353	81	123	67	3,120	8,953	2,364	4,661	5,245	24,249	78,442	1,856	2045	
(6)	89,630	99	99	7,122	7,054	278,784	763,999	187,045	402,804	428,417	1,362,985	(6)	105,913	205	
	75,725	98	99	6,796	6,863	232,726	654,776	149,519	324,607	350,056	1,098,012	2,403,589	91,677	2051	
	757,193	13,904	96	326	191	46,058	109,223	37,526	78,197	78,361	264,973	540,222	14,241	2052	
(6)	19,123	100	100	181	62	35,423	91,291	30,749	69,226	75,529	233,869	(6)	23,483	206	
	64,588	2,659	100	82	62	4,635	8,550	4,022	10,217	6,597	17,709	60,135	5,661	2061	
	864,113	10,553	100	25	...	17,376	47,172	15,093	33,074	38,974	98,112	818,430	5,902	2062	
	291,248	5,910	100	74	...	13,412	35,569	11,634	25,935	29,358	118,048	262,872	12,520	2063	
(6)	21,272	(NA)	(NA)	1,754	1,444	91,710	214,558	78,063	158,210	155,666	587,065	(6)	36,210	207	
	992,597	13,399	97	1,686	1,423	75,165	167,886	64,883	130,694	123,046	413,852	944,925	25,602	2071	
	432,842	3,636	100	31	7	9,605	27,480	7,708	15,933	19,174	98,276	349,907	6,013	2072	
	158,081	4,235	(D)	37	14	6,940	19,192	5,472	11,583	13,446	74,937	148,286	4,595	2073	
(6)	176,602	(NA)	(NA)	6,755	5,605	202,574	598,654	138,515	301,080	375,921	1,849,145	(6)	218,312	208	
	47,731	99	99	5,618	5,172	79,397	194,305	41,214	90,882	83,291	420,711	743,196	66,748	2081	
	1,857,053	114,534	100	99	440	37	82,534	292,405	63,668	142,001	210,228	807,177	1,316,085	110,892	2082
	201,988	3,257	100	53	10	2,524	9,550	2,069	4,466	6,896	53,885	256,230	6,864	2083	
(6)	2,216	100	100	418	337	7,697	21,896	5,824	11,717	13,681	95,015	(6)	10,905	2084	
	711,313	8,863	99	226	49	30,422	80,498	25,740	52,014	61,825	472,357	870,235	22,903	2085	

## GENERAL SUMMARY

Table 2A.—GENERAL STATISTICS FOR OPERATING MANUFACTURING ESTABLISHMENTS

(For explanation of column captions see Introduction.)

1	2 Establishment and industry	1954									
		3 Primary products specialization ratio <sup>1</sup>	4 Coverage ratio <sup>2</sup>	5 Establishments (Number)	6 Proprietors and firm members (Number)	All employees		Production workers			8 Value added by manufacture, unadjusted <sup>3</sup>
						7 Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>3</sup>	Man-hours (1,000)	Wages (\$1,000)	
	Miscellaneous food products—Continued	95	89	5,589	3,390	138,735	507,745	48,423	196,845	303,029	1,632,667
	Ice cream and frozen desserts	94	90	43	7	2,685	12,346	1,772	3,840	8,696	45,350
	Ice cream and frozen desserts, except chocolate	95	89	102	27	9,382	42,411	6,755	14,016	27,571	175,988
	Margarine	90	62	33	2	2,626	10,463	1,235	3,681	6,314	42,467
	Corn wet milling	91	76	58	24	13,965	60,431	1,584	21,008	43,172	176,696
	Manufactured ice	91	87	558	231	10,543	45,460	6,543	12,402	20,308	219,445
	Macaroni and spaghetti	100	97	1,963	1,203	20,854	61,111	11,830	27,975	35,593	115,469
	Food preparations, n.e.c.	94	86	2,599	1,711	71,952	251,440	52,761	103,702	146,907	806,298
	Tobacco manufactures	NA	NA	627	376	4,263	10,479	27,273	162,988	219,736	988,001
2111	Cigarettes	99	100	11	...	2,987	10,779	27,694	53,643	91,067	677,252
2121	Chewing and smoking tobacco	99	100	410	323	37,441	107,561	36,076	65,720	78,455	165,312
	Tobacco stemming and redrying	6	80	65	33	7,538	23,071	6,444	11,729	17,229	80,057
	Tobacco stemming and redrying	100	100	133	20	10,546	43,175	16,257	31,894	32,983	65,378
	Textile mill products	(NA)	NA	4,470	3,061	1,37,440	3,032,440	47,501	1,821,075	2,526,564	4,748,586
221	Woolen and worsted manufactures	7	93	644	126	21,535	305,766	82,030	162,494	250,221	452,906
2211	Scouring and combing plants	83	60	74	6	7,012	4,300	6,363	12,616	20,134	35,084
2212	Yarn mills, wool, except carpet	93	85	171	37	17,840	51,730	16,511	31,150	44,085	78,971
2213	Woolen and worsted fabrics	92	95	447	71	23,466	214,246	55,702	111,650	174,696	315,706
2216	Finishing wool textiles	100	100	56	12	2,115	15,434	3,115	7,076	11,304	23,143
222	Yarn and thread mills	95	92	591	99	111,024	267,020	104,010	189,094	231,616	415,492
2222	Yarn thread mills	93	79	137	33	11,240	32,146	10,840	21,327	26,790	53,964
2223	Thread mills	95	92	454	66	13,480	38,381	12,221	22,807	29,267	62,694
2224	Yarn mills, cotton system <sup>14</sup>	95	92	357	33	85,270	197,572	80,444	144,959	175,558	298,833
223	Broad-woven fabrics	9	84	1,060	184	386,181	1,055,344	363,666	704,516	937,125	1,550,272
2233	Synthetic broad-woven fabrics	87	90	478	114	296,103	783,011	280,546	537,531	702,649	1,127,507
	Synthetic broad-woven fabrics	87	90	478	114	296,103	783,011	280,546	537,531	702,649	1,127,507
	Narrow fabric mills	9	84	513	222	35,676	71,963	22,862	44,962	61,456	121,547
225	Knitting mills	(NA)	(NA)	3,045	1,608	221,364	597,311	201,977	371,029	488,095	938,138
2251	Full-fashioned hosiery mills	9	84	789	409	60,150	178,454	55,023	101,925	151,619	266,993
2252	Seamless hosiery mills	9	93	609	306	63,350	135,441	59,656	105,905	117,445	202,477
2253	Knit underwear mills	93	73	1,083	722	46,473	139,132	41,345	75,955	104,490	231,702
2254	Knit underwear mills	88	39	149	41	31,262	77,511	28,242	51,204	63,095	110,591
2255	Knit glove mills	86	20	29	10	2,025	4,971	1,855	3,258	3,966	6,192
2256	Knit fabric mills	94	91	340	100	16,212	57,378	14,680	30,560	44,621	113,122
2257	Knitting mills, n.e.c.	62	75	47	20	1,351	3,750	1,167	2,218	2,846	7,059
2261	Finishing textiles, except wool	9	41	725	133	70,308	242,324	60,485	142,839	228,262	464,165
227	Carpet and rug mills	95	100	165	27	11,104	185,340	42,756	86,096	145,202	360,856
2271	Wool carpets and rugs	100	100	27	27	11,006	111,009	29,336	48,852	86,199	191,409
2273	Carpet and rug mills, except wool	95	93	213	138	11,479	30,735	1,176	19,862	23,085	67,110
	Hard-surface floor coverings	95	97	16	...	5,634	43,546	5,242	17,382	35,918	102,337
228	Hats (except cloth and millinery)	92	93	201	...	12,988	40,847	11,239	20,411	32,169	61,886
2281	Felt hats	92	93	91	41	3,190	27,252	7,028	12,248	21,317	39,160
2282	Wool-felt hats and hat bodies	92	93	19	19	1,750	4,951	1,552	2,809	3,862	7,250
2283	Straw hats	92	75	4	16	2,294	6,262	1,322	4,103	5,232	11,573
2284	Hatter's fur	95	100	30	13	762	2,426	666	1,250	1,736	3,902
229	Textile goods, n.e.c.	13	90	964	384	38,154	208,474	4,427	99,630	152,413	383,320
2291	Felt goods, n.e.c.	92	92	72	23	2,427	23,376	2,131	10,767	18,083	41,656
2292	Lace goods	94	94	138	67	7,442	26,117	6,964	12,521	20,492	37,734
2293	Padding and upholstery filling	91	90	200	101	9,111	33,431	7,777	16,031	24,499	61,499
2294	Processed textile waste	90	93	203	79	2,768	17,973	4,356	10,142	12,717	30,723
2295	Coated fabric, except rubberized	96	82	106	22	6,547	41,000	6,576	14,711	27,386	80,294
2296	Cordage and twine	96	89	137	46	12,327	37,374	10,709	20,568	28,128	77,298
2299	Textile goods, n.e.c.	88	81	108	46	8,075	29,106	7,736	14,888	21,116	54,115
23	Apparel and related products	(NA)	(NA)	31,372	13,444	1,100,064	3,201,745	1,069,867	1,898,999	2,521,135	5,147,371
231	Men's and boys' suits and coats	91	90	1,426	921	121,686	382,480	109,135	191,935	307,160	548,168
2311	Men's and boys' suits and coats	91	90	1,310	851	119,501	374,705	106,720	187,579	301,062	536,880
	Suit and coat findings	98	9	116	70	2,084	7,785	1,414	4,356	6,097	11,288
232	Men's and boys' furnishings	94	91	3,901	1,844	179,594	638,732	263,003	469,927	522,918	1,008,357
2321	Men's dress shirts and nightwear	90	95	971	411	140,304	236,726	100,262	181,083	372,941	792,941
2322	Men's and boys' neckwear	92	92	82	29	1,245	18,423	9,327	15,325	16,289	29,952
2323	Men's and boys' neckwear	92	92	403	321	17,423	17,947	3,051	13,789	19,056	48,237
2325	Men's and boys' neckwear	92	92	415	304	8,079	21,457	7,451	14,011	17,977	33,033
2327	Hat and cap materials	92	94	63	28	2,041	7,796	1,424	2,145	4,579	9,579
2327	Separate trousers	92	94	798	608	11,401	118,688	42,315	86,421	99,562	181,309
2327	Work shirts	92	94	52	20	1,101	11,668	6,780	11,425	10,632	16,652
2329	Men's and boys' clothing, n.e.c.	92	94	1,117	651	11,401	200,790	87,510	146,446	160,573	321,655

See footnotes at end of table.



## GENERAL SUMMARY

7

BY INDUSTRY GROUPS AND INDUSTRIES: 1954 AND 1947—Continued

For definitions of industries, see Appendix A—Industry Descriptions)

154—Continued					1947									
Value of shipments	Capital expenditures, new <sup>1</sup>	Primary products specialization ratio <sup>2</sup>	Coverage ratio <sup>3</sup>	Establishments	Proprietors and firm members	All employees		Production workers			Value added by manufacture, construction	Value of shipments	Capital expenditures, new <sup>4</sup>	Code
						Number <sup>5</sup>	Payroll	Number <sup>5</sup>	Man-hours	Wages				
(\$1,000)	(\$1,000)			(Number)	(Number)		(\$1,000)		(1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	
( <sup>6</sup> )	85,487	(NA)	(NA)	6,623	4,531	151,790	384,418	108,568	236,808	241,547	1,199,122	( <sup>6</sup> )	91,115	209
71,185	1,604	(D)	(D)	48	14	3,066	8,744	2,364	4,902	6,804	46,494	72,295	1,230	2091
935,338	10,971	82	96	100	53	8,303	24,550	5,931	12,267	16,298	162,146	884,713	7,216	2092
192,343	1,478	81	"	27	"	2,567	8,337	1,806	4,012	5,279	43,750	214,598	1,114	2093
458,442	16,391	88	96	55	17	12,324	41,114	10,158	23,032	32,688	127,143	459,978	20,090	2094
446,056	6,642	93	89	606	322	11,726	37,149	7,242	14,626	17,720	158,333	313,573	7,626	2095
143,280	7,761	100	98	3,432	2,244	46,462	103,038	29,048	70,741	63,026	226,584	273,415	20,345	2097
149,656	2,469	100	99	226	217	8,043	18,763	6,628	14,171	13,134	42,049	112,094	5,057	2098
3,255,967	38,168	92	80	2,199	1,664	59,599	142,522	45,391	93,057	86,598	392,623	1,600,903	28,437	2099
( <sup>6</sup> )	28,018	(NA)	(NA)	1,086	874	111,782	205,838	103,289	198,323	175,318	641,356	( <sup>6</sup> )	35,645	21
1,640,950	20,362	96	100	28	...	27,674	63,204	25,553	49,196	54,986	368,417	1,131,891	16,546	2111
339,452	2,884	99	100	822	789	47,068	76,344	44,512	84,008	68,402	143,145	311,401	4,449	2121
161,739	1,205	98	86	73	32	11,139	22,676	9,725	19,630	17,616	57,571	140,142	2,519	2131
1,043,213	3,566	100	98	163	53	25,901	43,614	23,499	45,489	34,314	72,223	957,807	12,131	2141
( <sup>6</sup> )	225,914	(NA)	(NA)	8,157	4,068	1,232,293	2,832,706	1,146,293	2,306,636	2,447,857	5,322,899	( <sup>6</sup> )	367,510	22
( <sup>6</sup> )	18,715	(NA)	(NA)	810	262	179,740	454,685	166,792	336,038	394,025	786,346	( <sup>6</sup> )	50,009	221
94,168	2,391	(NA)	(NA)	56	19	8,412	24,105	7,757	17,202	20,572	36,920	75,557	3,218	2211
251,614	3,302	90	81	200	79	33,178	75,380	31,463	61,857	66,443	127,808	336,956	6,613	2212
890,281	11,714	90	97	495	134	132,348	338,928	122,432	245,468	293,962	599,534	1,355,209	39,249	2213
32,788	1,307	(10)	(10)	59	30	5,802	16,272	5,140	11,511	13,048	22,084	28,889	929	2216
( <sup>6</sup> )	30,256	(NA)	(NA)	685	195	150,909	300,554	143,587	279,797	270,177	560,103	( <sup>6</sup> )	36,647	222
79,227	3,211	(NA)	(NA)	122	37	14,866	28,401	13,800	26,871	24,323	45,970	64,177	4,659	2222
183,744	8,543	85	(NA)	84	40	14,652	33,240	13,126	26,494	26,930	67,371	154,269	4,208	2223
1,030,627	18,501	(NA)	(NA)	474	118	121,391	238,913	116,661	226,432	218,924	446,761	1,162,607	27,780	2224
( <sup>6</sup> )	68,195	(NA)	(NA)	1,082	277	427,844	937,818	407,462	832,518	850,056	1,937,020	( <sup>6</sup> )	121,653	223
2,789,621	55,200	(NA)	(NA)	575	50	330,196	705,746	316,288	637,863	645,065	1,448,972	2,912,651	78,772	2233
1,142,629	12,005	(NA)	(NA)	507	227	97,648	232,072	91,174	194,655	204,991	488,048	1,002,923	42,881	2234
250,162	4,802	( <sup>6</sup> )	98	480	277	28,080	65,011	25,295	50,586	52,494	110,571	215,194	5,670	2241
( <sup>6</sup> )	39,982	(NA)	(NA)	3,121	2,106	229,303	490,370	211,796	408,304	411,854	850,963	( <sup>6</sup> )	81,765	225
( <sup>6</sup> )	7,698	(NA)	(NA)	738	371	70,034	178,062	65,148	125,719	156,320	319,369	( <sup>6</sup> )	38,588	2251
429,251	12,986	96	91	618	418	64,913	105,711	61,443	114,618	91,939	163,899	327,007	17,122	2252
544,129	9,853	91	82	1,199	1,094	34,543	80,674	30,383	57,755	59,590	145,370	330,474	5,727	2253
256,290	2,982	87	70	172	52	40,579	80,520	37,546	74,111	67,990	134,399	295,411	6,853	2254
11,787	(13)	91	34	44	22	4,798	8,509	4,555	8,666	7,522	13,446	24,318	651	2255
377,383	6,214	(12)	306	113	13,460	34,681	11,849	25,667	26,755	70,202	197,454	12,731	2256	
15,805	(13)	98	89	44	36	976	2,213	872	1,768	1,738	4,278	10,587	93	2259
998,144	21,900	(NA)	(NA)	641	272	77,985	218,933	69,035	148,266	176,094	359,270	531,400	29,668	2261
( <sup>6</sup> )	23,916	(NA)	(NA)	295	200	57,079	157,507	50,768	107,052	131,008	330,580	( <sup>6</sup> )	21,490	227
( <sup>6</sup> )	12,605	(10)	95	95	51	40,096	111,558	35,560	74,203	92,656	217,046	( <sup>6</sup> )	11,796	2271
175,010	4,957	84	86	182	148	7,055	14,378	6,444	12,827	11,556	30,986	55,559	986	2273
181,582	6,352	91	100	18	1	9,928	31,571	8,764	20,022	26,796	82,548	173,255	8,708	2274
( <sup>6</sup> )	850	(NA)	(NA)	270	136	21,388	55,082	18,824	35,423	43,285	91,900	( <sup>6</sup> )	3,446	228
70,605	558	94	97	136	74	13,034	36,433	11,495	21,322	28,554	61,474	131,123	2,211	2281
13,559	(13)	76	97	41	25	4,427	9,317	3,927	7,217	7,487	13,798	26,135	721	2282
22,470	(13)	83	74	40	15	2,438	5,387	2,057	4,156	4,113	8,610	18,250	151	2283
10,114	(13)	(D)	(D)	46	22	1,489	3,945	1,345	2,728	3,131	8,018	23,823	363	2284
( <sup>6</sup> )	17,296	(NA)	(NA)	773	343	59,965	152,746	52,734	108,652	118,864	296,146	( <sup>6</sup> )	17,162	229
92,931	1,623	95	97	40	4	4,737	14,177	4,167	8,777	11,109	24,881	59,764	1,258	2291
59,795	1,941	94	97	96	68	8,580	21,346	7,856	15,403	17,745	44,872	68,663	1,931	2292
148,828	3,485	96	92	139	64	8,306	21,466	7,431	15,512	17,119	44,765	110,352	1,883	2293
85,023	1,513	94	94	179	98	5,805	12,894	5,149	10,982	9,822	22,612	57,255	1,046	2294
212,310	4,117	84	82	105	37	8,588	27,925	6,869	15,028	19,692	52,491	162,597	3,997	2295
159,948	2,614	87	87	149	52	16,366	37,143	14,482	29,025	29,190	73,795	170,897	3,863	2298
121,603	2,000	87	76	59	20	7,583	17,795	6,780	13,925	14,187	32,730	65,109	3,184	2299
( <sup>6</sup> )	76,552	(NA)	(NA)	30,963	28,430	1,081,670	2,525,183	973,029	1,811,120	2,014,758	4,439,597	( <sup>6</sup> )	83,945	23
( <sup>6</sup> )	3,561	92	97	1,970	1,655	151,116	406,304	136,862	267,334	339,418	676,947	( <sup>6</sup> )	10,961	231
1,140,731	3,466	92	97	1,814	1,526	147,099	397,151	133,181	260,434	332,007	660,206	1,412,782	10,747	2311
27,991	(13)	99	156	129	4,017	9,153	21,533	3,681	6,900	7,411	16,741	39,272	214	2312
( <sup>6</sup> )	16,684	(NA)	(NA)	4,028	3,254	253,020	455,438	234,106	431,237	373,941	801,633	( <sup>6</sup> )	17,866	232
893,980	6,370	94	87	1,064	681	94,182	163,751	68,052	163,022	137,487	292,426	438,562	7,786	2321
74,324	1,168	95	21	100	54	7,269	11,330	6,929	12,326	9,847	20,348	29,405	396	2322
100,036	(13)	97	91	413	374	10,744	25,367	9,246	16,942	18,485	50,708	62,980	495	2323
58,287	263	96	32	313	361	5,541	12,379	5,063	9,897	10,455	20,685	16,850	256	2325
9,669	28	97	99	70	58	1,111	3,002	943	1,790	2,100	5,620	6,709	70	2326
397,685	2,776	86	70	976	962	47,279	91,400	44,006	81,297	75,620	159,439	185,819	3,401	2327
38,300	(13)	77	67	85	16	12,061	16,609	11,169	20,429	13,858	33,212	62,166	633	2328
792,886	5,473	82	76	1,007	748	74,833	131,600	68,698	125,554	106,089	219,195	334,435	4,829	2329

## GENERAL SUMMARY

Table 2A.—GENERAL STATISTICS FOR OPERATING MANUFACTURING ESTABLISHMENTS

For explanation of column captions see Introduction.

Industry group and industry	Primary products specialization ratio <sup>1</sup>	Coverage ratio <sup>2</sup>	Establishments (Number)	Proprietors and firm members (Number)	All employees		Production workers			Value added by manufacture, unadjusted <sup>4</sup> (\$1,000)
					Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>3</sup>	Man-hours (1,000)	Wages (\$1,000)	
Apparel and related products—Con.										
2331 Women's and children's outerwear.....	98	90	10,298	7,400	363,896	1,046,120	327,642	569,369	824,534	1,686,067
2331 Blouses.....	92	95	1,245	1,025	42,980	99,818	39,567	67,901	82,201	165,352
2333 Dresses, unit price.....	96	95	4,114	2,917	143,278	418,577	131,527	219,314	334,819	661,292
2333 Dresses, dozen price.....	96	96	290	64	54,507	127,276	40,442	90,092	100,137	205,070
2337 Women's suits, coats, and slacks.....	94	93	3,204	2,235	96,022	326,933	141,410	147,479	252,312	529,623
2338 Women's sport and informal.....	96	96	133	107	1,745	6,189	1,857	2,434	3,561	9,676
2338 Women's outerwear, n.e.c.....	92	94	710	479	25,361	67,324	11,600	42,147	51,503	115,046
234 Women's and children's undergarments.....	96	95	1,843	1,020	112,234	284,814	100,600	179,036	219,040	513,256
2341 Women's and children's underwear.....	95	95	1,352	836	73,427	176,305	66,115	118,702	140,063	298,385
2341 Corsets and allied garments.....	96	95	491	184	38,807	108,509	33,724	60,333	78,977	214,870
2341 Millinery.....	96	95	471	527	20,235	65,111	14,222	33,577	53,667	101,180
236 Children's outerwear.....	94	93	1,983	1,517	77,538	196,303	70,189	125,003	155,804	322,052
2361 Children's dresses.....	95	95	764	630	32,525	78,244	10,410	52,459	61,892	127,557
2363 Children's coats.....	94	91	407	315	14,399	44,980	10,509	22,692	35,598	72,601
2363 Children's outerwear, n.e.c.....	95	92	812	572	30,613	73,079	10,126	49,651	58,313	121,863
2371 Fur goods.....	96	100	1,972	1,669	9,983	42,833	7,244	13,935	33,915	74,755
238 Miscellaneous apparel.....	94	86	1,844	1,238	64,333	163,381	57,400	100,723	125,202	266,605
2381 Fabric dress gloves.....	94	72	110	74	4,537	10,374	4,117	7,131	8,266	17,271
2382 Hosiery and socks.....	95	93	130	51	10,084	19,335	6,000	16,536	16,631	31,061
2382 Suspender and garters.....	96	60	47	34	934	2,435	266	1,400	1,768	4,114
2384 Waterproof dressing gowns.....	93	84	328	274	10,957	27,039	10,443	16,891	21,093	41,127
2384 Waterproof outer garments.....	94	81	294	163	12,872	34,702	11,360	20,167	27,117	50,342
2386 Leather and sheep-lined clothing.....	95	80	153	91	5,361	15,730	4,000	8,106	11,862	24,248
2387 Belts.....	96	94	503	394	12,571	35,403	10,700	19,639	25,176	58,010
2388 Neckties.....	96	98	100	54	3,513	7,792	3,100	5,797	5,797	14,366
2389 Apparel, n.e.c.....	90	91	139	103	3,501	10,569	1,000	5,670	7,489	15,582
239 Fabricated textiles, n.e.c.....	94	77	7,274	6,312	134,560	381,319	110,371	215,490	278,880	626,928
2391 Curtains and draperies.....	94	89	716	620	13,988	36,899	10,350	22,976	27,304	61,392
2392 Housefurnishings, n.e.c.....	91	100	1,213	926	36,188	97,105	10,400	59,271	71,686	173,910
2394 Textile bags.....	94	85	268	164	12,109	35,120	1,800	18,748	24,329	51,641
2394 Canvas products.....	96	86	1,119	1,004	13,400	40,180	1,724	20,498	25,917	61,442
2395 Tucking, pleating, and stitching.....	100	90	491	527	6,453	17,602	1,000	10,778	14,828	27,904
2396 Trimmings and art goods.....	97	93	836	618	17,754	55,623	10,745	28,105	40,558	87,687
2397 Schiffli-machine embroideries.....	98	94	601	695	5,715	19,739	5,061	9,969	14,772	34,396
2397 Embroideries, except Schiffli.....	98	96	926	919	10,803	26,880	10,341	16,409	22,178	41,280
2399 Fabricated textile products, n.e.c.....	95	77	1,104	720	18,006	52,167	10,000	28,733	37,314	87,272
24 Lumber and wood products.....	(NA)	(NA)	41,484	41,987	645,936	1,933,523	501,000	1,106,055	1,604,859	3,188,409
2411 Logging camps and contractors.....	96	84	12,865	13,946	75,510	210,625	10,171	115,575	182,295	389,928
242 Lumber and basic products.....	96	81	20,487	22,034	341,350	962,339	314,684	592,946	827,536	1,595,384
2421 Sawmills and planing mills.....	97	81	19,778	21,470	321,199	906,847	10,000	558,428	781,760	1,502,911
2422 Veneer mills.....	97	80	261	143	12,825	35,453	11,000	23,254	28,464	59,250
2422 Shingle mills.....	97	80	175	192	2,532	9,367	1,000	3,223	7,970	15,451
2424 Cooperage stock mills.....	96	95	205	178	3,368	6,521	3,100	5,575	5,793	10,843
2424 Woodchipping mills.....	96	95	60	51	1,424	4,150	1,000	2,463	3,547	6,928
243 Millwork and related products.....	96	94	3,834	2,911	119,416	456,405	101,017	205,260	351,221	709,768
2431 Mill lumber products.....	96	91	3,348	2,751	68,068	258,198	55,000	113,488	188,156	374,518
2432 Prefabricated lumber products.....	95	95	255	100	39,201	152,301	36,100	74,155	133,940	246,520
2433 Prefabricated wood products.....	95	95	231	96	11,547	45,905	10,100	17,615	29,125	88,999
244 Wooden containers.....	96	93	1,513	1,072	52,307	137,641	47,000	93,378	113,637	215,297
2441 Fruit and vegetable baskets.....	91	88	134	101	6,685	13,869	6,000	12,497	11,782	18,961
2441 Rattan and willow ware.....	91	93	75	89	1,293	3,307	1,100	2,228	2,731	5,329
2443 Cigar boxes.....	96	94	23	12	1,081	2,333	1,000	2,019	1,971	3,088
2444 Cooperage.....	93	85	1,101	781	39,522	105,781	10,000	70,136	86,643	165,361
2445 Cooperage.....	97	95	180	63	3,123	12,350	1,300	6,497	10,507	21,656
249 Miscellaneous wood products.....	93	95	2,785	2,024	57,351	166,512	10,000	99,794	130,169	278,031
2491 Wood preserving.....	97	95	100	100	12,073	36,162	1,000	20,671	28,020	69,257
2492 Lasts and related products.....	99	95	51	15	1,463	5,640	1,000	2,425	4,190	8,210
2493 Mirror and picture frames.....	89	94	343	268	5,214	17,351	4,400	8,845	12,520	27,601
2499 Wood products, n.e.c.....	91	95	2,103	1,641	38,600	107,357	10,000	67,852	85,438	172,961
25 Furniture and fixtures.....	(NA)	(NA)	10,273	7,323	340,694	1,197,376	204,000	571,294	892,891	1,966,410
251 Miscellaneous furniture.....	96	95	6,470	4,450	243,932	1,000,000	208,000	413,823	618,344	1,320,743
2511 Wood house furniture not upholstered...	94	95	2,785	1,923	124,898	388,409	109,000	222,063	303,249	592,714
2512 Upholstered household furniture.....	94	85	1,780	1,165	56,022	193,596	48,100	93,276	146,990	313,034
2514 Metal household furniture.....	93	83	641	362	29,629	110,933	10,000	47,083	80,199	190,816
2515 Mattresses and bedsprings.....	91	100	1,195	948	32,096	121,516	10,000	49,325	84,588	216,362
2519 Household furniture, n.e.c.....	86	59	69	52	1,285	4,437	1,000	2,074	3,316	7,815

See footnotes at end of table.



## GENERAL SUMMARY

9

BY INDUSTRY GROUPS AND INDUSTRIES: 1954 AND 1947—Continued

For definitions of industries, see Appendix A—Industry Descriptions)

1954—Continued				1947										
Value of shipments (\$1,000)	Capital expenditures, new <sup>1</sup> (\$1,000)	Primary products specialization ratio <sup>2</sup>	Coverage ratio <sup>2</sup>	Establishments (Number)	Proprietors and firm members (Number)	All employees		Production workers			Value added by manufacturing, use <sup>4</sup> (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new <sup>5</sup> (\$1,000)	Total <sup>6</sup>
						Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>3</sup>	Man-hours (1,000)	Wages (\$1,000)				
61	15,499	(NA)	(NA)	10,087	9,439	313,095	846,416	278,699	504,406	671,332	1,428,585	( <sup>6</sup> )	18,607	233
375,262	2,445	93	88	1,362	1,404	32,883	67,667	30,066	54,065	54,332	123,928	276,575	2,150	2331
4,452	5,069	95	97	4,205	3,803	133,779	372,080	118,678	212,301	295,768	612,240	1,359,030	5,156	2333
435,216	2,366	95	96	917	753	48,590	90,221	43,808	81,896	68,503	152,222	348,785	4,820	2334
1,261,320	3,621	95	93	2,971	2,893	82,650	282,804	72,858	131,160	228,185	477,223	1,092,579	5,005	2337
26,297	96	96	96	166	181	2,754	6,963	2,181	4,589	3,829	16,850	51,061	88	2338
252,074	1,905	70	33	466	405	12,439	26,681	11,108	20,395	20,715	46,122	97,203	1,388	2339
770,026	8,432	NA	(NA)	2,053	1,531	94,615	196,157	84,234	155,671	141,005	385,296	( <sup>6</sup> )	10,434	234
3,001	5,431	95	78	1,518	1,195	58,004	115,949	52,650	95,698	87,477	229,306	575,679	5,701	2341
173,125	3,001	94	76	535	336	36,611	80,208	31,584	59,973	57,791	155,990	277,791	4,733	2342
61	3,844	(NA)	(NA)	1,635	1,576	48,245	100,954	43,499	80,866	79,260	177,777	( <sup>6</sup> )	3,433	236
291,499	1,451	93	71	665	624	22,456	43,346	20,374	38,663	33,953	76,291	174,827	1,382	2361
172,110	574	91	87	473	455	11,008	22,524	9,834	17,761	19,411	50,841	114,199	863	2363
278,248	1,818	(NA)	(NA)	547	497	14,781	35,084	13,291	24,442	25,896	50,645	111,509	1,188	2369
227,525	417	100	100	2,229	2,623	16,190	68,571	13,745	24,521	57,636	122,821	357,013	559	2371
39,091	4,091	89	47	1,728	1,443	57,793	120,609	51,468	95,503	92,392	217,248	( <sup>6</sup> )	4,241	238
65,776	1,103	94	76	143	71	5,633	9,233	5,248	9,553	7,811	14,806	30,848	646	2381
10,116	1,131	74	54	64	65	10,865	17,749	10,315	18,759	15,780	34,562	73,722	1,013	2382
107,964	13	82	376	358	1,685	3,641	1,408	2,544	2,417	3,674	14,563	42	2383	
119,660	85	73	247	221	8,573	20,272	7,568	14,833	15,448	33,444	80,751	533	2385	
56,383	79	80	125	114	4,228	10,432	3,710	7,211	7,798	18,451	40,555	276	2386	
106,311	658	90	95	396	361	9,162	22,016	7,573	14,338	15,889	38,037	68,982	714	2387
40,261	98	95	159	134	4,583	9,054	4,078	7,277	6,303	20,689	53,106	166	2388	
26,996	96	86	85	55	2,180	4,859	1,765	3,519	3,316	7,922	13,286	143	2389	
172,668	23,586	NA	(NA)	6,250	6,155	126,663	271,168	112,300	218,455	208,622	528,427	( <sup>6</sup> )	16,825	239
503,203	1,208	97	90	397	286	7,982	17,081	6,928	13,354	11,702	34,909	109,640	748	2391
220,978	4,363	93	1037	1,232	1,114	39,946	78,272	36,119	69,064	62,565	155,715	502,461	5,001	2392
129,611	3,941	93	98	232	140	13,850	28,279	12,129	23,356	20,984	66,320	355,981	3,918	2393
34,578	1,285	91	93	903	857	10,003	24,751	8,669	17,953	17,491	41,424	91,108	1,399	2394
242,915	644	101	531	626	5,929	12,421	5,532	10,416	11,035	21,339	25,237	298	2395	
64,834	7,691	94	95	785	789	14,521	32,720	12,676	24,165	24,622	62,587	127,672	1,905	2396
56,155	1,016	98	96	546	710	5,678	15,054	5,080	10,458	11,681	31,733	55,514	106	2397
201,198	716	97	96	787	936	9,836	20,234	9,308	16,981	17,627	34,521	44,392	349	2398
( <sup>6</sup> )	2,719	88	87	837	697	18,318	42,356	15,859	32,708	30,915	79,879	189,632	2,381	2399
733,417	217,361	(NA)	(NA)	( <sup>8</sup> )	( <sup>8</sup> )	( <sup>8</sup> )	( <sup>8</sup> )	( <sup>8</sup> )	( <sup>8</sup> )	( <sup>8</sup> )	( <sup>8</sup> )	( <sup>8</sup> )	( <sup>8</sup> )	24
120,128	48,632	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	2411
2,247,200	120,718	(NA)	(NA)	19,695	24,021	409,808	803,116	391,543	807,839	734,138	1,571,978	( <sup>6</sup> )	115,930	242
33,632	115,533	(NA)	(NA)	19,049	23,770	383,449	752,522	366,551	761,770	689,266	1,487,969	2,519,455	110,617	2421
26,330	3,146	92	83	156	21	10,461	20,441	9,722	20,648	17,248	36,858	67,423	3,702	2422
12,066	984	100	86	184	...	2,446	7,321	2,446	...	7,321	15,465	26,254	...	2423
( <sup>6</sup> )	28,613	(NA)	(NA)	2,750	2,250	97,347	263,712	85,607	183,552	213,282	454,352	( <sup>6</sup> )	26,998	243
873,007	13,737	90	92	2,381	2,043	59,783	162,050	51,901	109,998	128,695	266,452	546,182	13,499	2431
515,023	11,193	93	96	163	71	27,489	73,783	25,325	56,456	64,203	149,205	272,059	10,057	2432
224,388	3,681	93	76	206	136	10,075	27,879	8,381	17,098	20,384	38,695	103,311	3,442	2433
30,516	8,124	NA	(NA)	1,516	1,147	69,104	139,553	64,727	136,963	121,257	233,453	( <sup>6</sup> )	11,596	244
11,017	674	91	88	141	138	9,105	13,398	8,781	18,080	12,093	19,330	30,584	872	2441
7,889	131	89	93	53	57	1,073	2,101	983	2,047	1,776	3,573	7,243	74	2442
352,108	6,109	100	85	42	25	1,875	3,135	1,747	3,396	2,650	4,655	8,102	144	2443
60,350	6,109	96	85	1,025	845	47,828	98,833	44,606	95,983	85,757	174,545	365,290	8,732	2444
( <sup>6</sup> )	11,863	(NA)	(NA)	2,351	1,854	65,540	145,576	59,535	126,748	122,375	260,619	( <sup>6</sup> )	17,050	249
190,503	4,700	(D)	(D)	242	54	16,247	37,142	14,772	31,706	32,020	92,041	(NA)	6,243	2491
11,953	131	(D)	(D)	50	13	1,959	5,348	1,699	3,417	4,159	8,937	13,129	253	2492
47,622	89	92	146	208	3,811	10,255	3,293	6,675	7,742	15,506	25,555	296	2493	
329,758	6,605	87	94	1,813	1,579	43,523	92,831	39,771	84,950	78,454	144,135	277,075	10,258	2499
61,945	40,284	(NA)	(NA)	7,551	6,112	316,273	806,948	277,909	583,572	641,673	1,346,277	( <sup>6</sup> )	77,441	25
1,113,264	40,284	(NA)	(NA)	4,879	3,774	228,429	558,058	203,570	426,613	450,182	932,405	( <sup>6</sup> )	56,900	251
632,813	17,161	94	94	2,248	1,692	132,050	304,614	120,062	256,896	253,156	489,145	898,674	32,257	2511
402,575	6,934	92	83	1,391	1,086	44,755	114,861	39,786	80,656	92,908	191,430	381,053	9,833	2512
464,516	8,720	83	73	312	178	19,651	52,463	16,819	34,381	40,240	97,087	194,851	7,194	2514
15,576	5,306	76	93	878	780	30,320	82,063	25,444	51,620	60,802	146,005	331,004	7,434	2515
	2,161	83	71	50	38	1,653	4,057	1,459	3,060	3,076	7,738	14,030	182	2519

## GENERAL SUMMARY

Table 2A.—GENERAL STATISTICS FOR OPERATING MANUFACTURING ESTABLISHMENTS

(For explanation of column captions see Introduction.)

Industry group and industry	1954									
	Primary product specialization ratio <sup>1</sup>	Coverage ratio <sup>2</sup>	Establishments (Number)	Proprietors and firm members (Number)	All employees		Production workers			Value added by manufacturing, and in trade <sup>4</sup>
					Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>3</sup>	Man-hours (1,000)	Wages (\$1,000)	
Furniture and fixtures—Continued										
252 Office furniture.....	84	87	241	113	21,652	84,826	18,170	36,447	66,140	154,566
2521 Wood office furniture.....	86	86	112	60	5,509	18,788	4,773	9,681	14,605	28,757
2522 Metal office furniture.....	84	87	129	53	16,143	66,038	13,397	26,765	51,535	125,808
253 Public and professional furniture.....	84	81	394	216	19,570	75,730	15,791	32,955	54,758	125,674
2531 Public-building furniture.....	83	86	232	174	14,044	52,638	11,556	24,120	38,905	87,446
2532 Professional furniture.....	81	68	102	42	5,526	23,092	4,234	8,834	15,853	38,228
2541 Partitions and fixtures.....	82	87	1,626	1,191	33,137	142,515	26,584	53,101	102,071	230,712
256 Screens, shades, and blinds.....	86	84	1,327	1,172	18,189	59,722	14,328	27,999	40,090	109,931
2561 Window and door screens.....	75	64	215	172	4,405	16,887	3,632	7,240	11,376	32,630
2562 Window shades.....	85	72	196	152	4,368	15,580	3,404	6,746	10,648	29,604
2563 Venetian blinds.....	85	93	916	842	9,416	27,254	7,290	14,012	18,065	47,696
259 Furniture and fixtures, n.e.c.....	86	74	215	181	4,211	15,687	3,512	6,968	11,485	24,782
2591 Restaurant furniture.....	71	78	163	145	3,401	12,718	2,809	5,594	9,245	18,790
2599 Furniture and fixtures, n.e.c.....	82	61	52	36	810	2,969	703	1,373	2,240	5,992
26 Pulp, paper and products.....	(NA)	(NA)	5,104	1,360	530,210	2,217,420	435,727	919,940	1,656,720	4,580,944
261 Pulp, paper and board.....	99	100	932	11	216,255	974,866	183,039	401,498	777,832	2,289,349
2611 Pulp mills.....	99	100	252	3	57,672	256,622	48,896	105,252	207,188	704,274
2612 Paper and paperboard mills.....	99	100	589	7	142,191	648,972	119,859	265,871	513,108	1,429,659
2613 Building paper and board mills.....	99	97	91	1	16,391	69,271	14,284	30,374	57,536	155,415
2641 Paper coating and glazing.....	85	86	277	84	27,697	123,991	20,017	42,091	80,101	282,067
2651 Envelopes.....	96	92	196	37	15,902	63,044	13,019	26,517	43,516	101,430
2661 Paper bags.....	91	98	381	110	33,326	121,116	27,773	56,227	89,530	211,688
267 Paperboard containers.....	96	98	1,888	622	145,053	570,643	118,223	242,171	406,137	969,675
2671 Paperboard boxes.....	96	92	1,704	550	132,964	525,685	107,762	221,054	371,275	895,298
2674 Fiber cans, tubes, drums, etc.....	97	87	184	63	12,088	44,958	10,460	21,117	34,861	74,377
269 Pulp, paper and board products, n.e.c.....	91	99	1,330	406	91,974	363,760	73,654	151,434	259,602	726,732
2691 Die-cut paper and board.....	82	82	352	196	12,260	47,940	9,933	19,677	34,633	97,964
2693 Wallpaper.....	99	92	76	17	3,636	14,330	2,926	6,038	10,325	19,005
2694 Pulp goods, pressed and molded.....	100	93	29	10	2,882	11,630	2,401	5,018	9,111	25,439
2699 Paper and board products, n.e.c.....	91	99	873	273	73,195	289,859	58,393	120,699	205,532	584,323
27 Printing and publishing.....	(NA)	(NA)	32,531	24,329	804,386	3,625,133	499,666	961,465	2,115,344	6,264,558
2711 Newspapers.....	95	100	8,646	6,962	281,799	1,262,763	148,941	281,198	667,058	2,144,223
2721 Periodicals.....	95	97	2,045	773	62,428	312,644	16,348	29,614	68,218	795,543
273 Books.....	89	80	1,412	758	57,400	245,196	27,893	55,025	107,607	539,395
2731 Books: publishing and printing.....	91	90	814	330	34,704	144,757	8,802	17,098	29,250	394,702
2732 Book printing.....	76	55	598	428	22,695	100,439	19,090	37,927	78,356	144,692
2741 Miscellaneous publishing.....	85	82	946	504	18,378	73,174	5,271	9,570	24,090	149,310
2751 Commercial printing.....	85	96	12,073	10,106	200,233	888,659	157,567	305,988	650,828	1,357,820
2761 Lithographing.....	82	74	2,924	2,035	77,717	376,571	60,178	117,968	261,249	578,883
2771 Greeting cards.....	93	89	294	172	21,347	70,434	15,297	28,624	41,960	131,343
278 Bookbinding and related industries.....	94	85	1,419	1,117	37,305	130,670	31,646	61,124	98,243	199,271
2781 Bookbinding.....	91	86	730	603	17,178	58,966	15,453	29,368	48,450	84,741
2782 Blankbooks and paper ruling.....	76	66	334	255	8,624	29,831	6,952	13,425	20,760	47,910
2783 Loose-leaf binders and devices.....	74	82	154	92	8,199	30,948	6,329	12,659	20,788	49,651
2789 Miscellaneous bookbinding work.....	84	83	201	167	3,303	10,925	2,910	5,671	8,244	16,968
279 Printing trade services.....	96	91	2,772	1,902	47,777	264,937	36,522	72,330	196,087	368,766
2791 Typesetting.....	94	87	1,081	870	14,550	74,558	11,744	23,082	57,492	106,909
2792 Engraving and plate printing.....	93	70	567	438	7,510	29,412	6,080	11,963	21,739	43,385
2793 Photoengraving.....	95	93	891	525	17,711	112,575	12,778	25,575	82,634	148,876
2794 Electrotyping and stereotyping.....	89	99	233	69	8,005	48,391	5,917	11,728	34,220	69,594
28 Chemicals and allied products.....	(NA)	(NA)	11,075	3,523	739,389	3,407,199	501,272	1,016,053	2,005,627	9,443,629
281 Inorganic chemicals.....	84	83	518	91	121,252	593,576	77,544	158,415	346,270	1,386,544
2811 Sulfuric acid.....	78	66	47	...	3,805	16,730	2,927	5,922	12,119	66,175
2812 Alkalies and chlorine.....	76	84	29	...	20,440	96,047	15,198	31,393	67,890	251,033
2819 Inorganic chemicals, n.e.c.....	87	78	442	1	97,006	480,798	59,418	121,099	266,260	1,069,335

See footnotes at end of table.



## GENERAL SUMMARY

11

BY INDUSTRY GROUPS AND INDUSTRIES: 1954 AND 1947—Continued

For definitions of industries, see Appendix A—Industry Descriptions)

1954—Continued				1947											Code
Value of shipments	Capital expenditures, new <sup>1</sup>	Primary products specialization ratio <sup>1</sup>	Coverage ratio <sup>2</sup>	Establishments	Proprietors and firm members	All employees		Production workers			Value added by manufacture, unadjusted <sup>4</sup>	Value of shipments	Capital expenditures, new <sup>5</sup>		
						Number <sup>3</sup>	Payroll	Number <sup>3</sup>	Man-hours	Wages					
(\$1,000)	(\$1,000)			(Number)	(Number)		(\$1,000)		(1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)		
( <sup>6</sup> )	5,350	(NA)	(NA)	216	109	20,747	58,222	17,527	36,410	45,888	104,548	173,165	5,739	252	
52,712	615	92	80	114	70	6,458	16,805	5,759	12,583	13,782	25,863	47,483	1,544	2521	
202,932	4,734	89	92	102	39	14,289	41,417	11,768	23,827	32,106	78,685	125,682	4,195	2522	
( <sup>6</sup> )	4,732	(NA)	(NA)	182	95	15,410	44,127	12,729	27,174	32,509	70,288	( <sup>6</sup> )	2,443	253	
159,545	3,781	68	80	120	65	10,213	28,629	8,542	18,034	21,562	44,614	75,992	1,379	2531	
65,401	951	62	67	62	30	5,197	15,498	4,187	9,140	10,947	25,674	41,757	1,064	2532	
396,974	7,031	88	89	1,135	954	27,816	89,115	23,888	51,175	70,180	137,814	245,864	5,403	2541	
( <sup>6</sup> )	3,853	NA	(NA)	937	1,004	19,652	45,850	16,530	34,320	33,600	81,872	( <sup>6</sup> )	6,149	256	
70,877	1,156	65	61	164	232	4,206	10,892	3,619	7,720	7,962	19,166	39,424	2,261	2561	
64,110	805	73	79	126	79	5,748	14,609	4,635	9,409	10,203	25,609	56,903	2,116	2562	
114,152	1,892	96	92	647	693	9,698	20,349	8,276	17,191	15,435	37,097	83,660	1,772	2563	
( <sup>6</sup> )	694	(NA)	(NA)	202	176	4,219	11,576	3,665	7,880	9,314	19,350	( <sup>6</sup> )	807	259	
36,751	550	87	69	172	151	3,361	9,149	2,871	6,188	7,261	15,182	26,192	653	2591	
11,075	(13)	91	56	30	25	858	2,427	794	1,692	2,053	4,168	6,417	154	2599	
( <sup>6</sup> )	532,723	(NA)	(NA)	4,100	1,289	454,075	1,294,535	391,715	857,344	1,018,339	2,913,197	( <sup>6</sup> )	406,779	26	
( <sup>6</sup> )	370,539	99	100	890	27	197,893	607,586	173,880	396,974	508,180	1,462,813	( <sup>6</sup> )	290,526	261	
1,577,291	148,475	99	100	226	7	50,290	148,125	45,412	99,894	127,452	415,938	939,604	85,507	2611	
3,792,810	213,050	100	100	664	20	147,603	459,461	128,468	297,080	380,728	1,046,875	2,804,463	205,019	2612	
305,302	9,013													2613	
622,192	15,240	87	92	181	28	22,269	70,661	17,733	38,967	50,047	165,580	401,371	10,072	2641	
195,341	6,942	92	95	164	43	13,797	39,191	11,543	24,898	27,656	68,253	128,346	5,338	2651	
623,068	18,901	96	86	192	65	22,230	53,774	19,527	41,350	42,265	119,074	319,928	9,189	2661	
( <sup>6</sup> )	63,899	97	98	1,649	705	118,982	315,838	102,730	216,028	235,766	669,287	( <sup>6</sup> )	52,014	267	
2,179,580	60,490	97	98	1,520	647	109,745	292,865	94,596	199,527	217,079	632,933	1,474,743	47,274	2671	
146,797	3,408	97	93	129	58	9,237	22,973	8,134	16,501	18,687	36,354	73,812	4,740	2674	
( <sup>6</sup> )	57,201	(NA)	(NA)	1,024	421	78,904	207,485	66,302	139,127	154,425	428,190	( <sup>6</sup> )	39,640	269	
206,652	6,424	(NA)	(NA)	208	109	9,281	25,478	7,739	16,161	18,864	50,224	97,655	2,052	2691	
39,668	526	95	100	58	4	5,462	16,287	4,771	10,696	12,222	32,732	58,895	5,994	2693	
42,293	3,215	97	86	19	10	1,748	4,910	1,482	3,224	3,870	9,672	16,191	1,046	2694	
1,427,622	47,034	97	86	739	298	62,413	160,810	52,310	109,046	119,469	335,562	786,917	30,548	2699	
( <sup>6</sup> )	236,897	NA	(NA)	28,978	22,685	715,120	2,276,262	437,880	888,254	1,317,573	4,248,773	( <sup>6</sup> )	226,368	27	
3,091,027	75,536	94	100	8,340	7,069	234,375	743,854	118,116	229,669	372,752	1,405,709	1,917,302	81,583	2711	
1,440,961	14,542	94	98	2,166	727	68,957	235,706	19,472	42,064	64,453	638,384	1,059,368	34,308	2721	
( <sup>6</sup> )	14,801	(NA)	(NA)	805	273	51,964	146,013	18,338	37,731	52,400	325,907	( <sup>6</sup> )	11,578	273	
665,232	7,558	92	93	648	219	39,942	104,278	8,092	16,740	20,142	262,903	463,851	7,310	2731	
221,328	7,243	77	157	54	54	12,022	41,735	10,246	20,991	32,258	63,004	92,303	4,268	2732	
231,242	3,270	93	78	611	332	12,036	35,200	3,430	6,735	8,475	72,151	103,343	1,262	2741	
2,202,074	65,822	86	86	11,920	10,459	191,719	594,125	154,520	320,011	449,830	970,291	1,513,136	60,677	2751	
962,552	34,854	77	77	1,415	901	52,408	192,657	41,367	85,212	127,151	314,132	488,569	17,387	2761	
208,905	8,809	92	87	162	88	18,053	43,898	12,650	24,582	23,900	81,051	123,856	2,512	2771	
( <sup>6</sup> )	7,458	(NA)	(NA)	1,342	1,190	42,561	107,466	36,437	73,120	84,632	177,144	( <sup>6</sup> )	7,485	278	
111,970	3,666	84	87	686	628	22,227	57,541	20,037	40,241	48,857	90,259	115,963	3,549	2781	
79,185	1,802	85	66	305	278	8,768	21,028	7,039	13,892	14,654	36,622	60,324	2,445	2782	
78,670	1,285	75	83	131	86	8,133	20,946	6,445	13,024	14,914	36,797	58,001	1,168	2783	
22,370	703	87	79	220	198	3,433	7,951	2,916	5,963	6,207	13,466	17,185	623	2789	
( <sup>6</sup> )	11,802	(NA)	(NA)	2,217	1,646	43,047	177,343	33,550	69,130	133,980	264,004	( <sup>6</sup> )	9,576	279	
121,390	4,267	94	87	794	694	11,475	44,906	9,301	19,515	35,409	66,842	75,703	1,982	2791	
60,084	1,702	92	80	416	346	7,688	20,998	6,463	13,196	16,959	33,094	45,311	544	2792	
173,040	3,986	96	95	770	540	16,711	80,003	12,234	24,942	57,962	116,131	133,540	4,640	2793	
85,894	1,845	92	87	237	66	7,173	31,436	5,552	11,477	23,650	47,937	58,984	2,410	2794	
( <sup>6</sup> )	926,613	(NA)	(NA)	10,019	4,034	626,418	1,898,472	464,144	974,684	1,236,012	5,317,001	( <sup>6</sup> )	804,958	28	
( <sup>6</sup> )	219,273	(NA)	(NA)	408	105	62,448	194,784	48,270	100,035	141,012	425,184	( <sup>6</sup> )	115,954	281	
139,270	10,803	(10)	(10)	47	...	3,110	9,208	2,549	5,333	7,253	31,097	60,568	6,559	2811	
399,908	34,728	81	85	32	2	19,853	63,822	15,017	31,815	45,494	113,868	208,560	56,404	2812	
1,859,372	173,741	(10)	(10)	333	103	39,485	121,754	30,704	62,887	88,265	280,219	562,458	52,991	2819	

## GENERAL SUMMARY

Table 1A.—GENERAL STATISTICS FOR OPERATING MANUFACTURING ESTABLISHMENTS

(For explanation of column captions see Introduction.)

121-	Industry group and industry	1954									Value added by manu- facture, unadjusted <sup>4</sup>
		Primary products speciali- zation ratio <sup>1</sup>	Cover- age ratio <sup>2</sup>	Estab- lish- ments (Number)	Pro- pri- tors and firm mem- bers (Number)	All employees		Production workers		Wages (\$1,000)	
						Number <sup>3</sup>	Payroll \$1,000 <sup>5</sup>	Number <sup>3</sup>	Man-hours 1,000 <sup>6</sup>		
282	Chemicals and allied products—Con.	91	90	772	50	245,465	1,193,196	176,220	351,388	769,231	3,214,454
2821	Cyclic (coal tar) crudes.....	82	72	43	...	1,925	8,246	1,488	2,829	5,620	22,177
2822	Intermediates and organic colors.....	64	66	107	2	32,748	165,511	22,297	44,142	99,416	362,300
2823	Plastics materials.....	90	75	206	17	41,145	201,487	28,388	57,441	122,188	583,224
2824	Synthetic rubber.....	98	90	21	...	8,531	44,502	6,178	12,217	30,214	152,906
2825	Synthetic fiber.....	96	99	46	...	61,105	261,753	45,894	89,959	174,376	717,226
2826	Explosives <sup>8</sup> .....	98	91	74	5	32,478	146,843	25,544	51,696	109,986	205,442
2829	Organic chemicals, n.e.c.....	77	80	275	32	67,531	364,852	46,428	93,101	227,428	1,171,165
283	Drugs and medicines.....	94	94	1,371	424	92,062	426,430	57,927	117,075	216,003	1,336,562
2831	Biological products.....	26	65	93	32	3,965	15,735	2,864	5,722	9,333	36,680
2833	Medicinal chemicals (inc. botanicals)...	69	59	115	24	11,541	56,272	7,743	16,229	33,345	138,877
2834	Pharmaceutical preparations.....	91	94	1,163	368	76,555	353,769	47,320	95,123	173,324	1,161,004
284	Soap and related products.....	87	64	1,543	717	46,221	219,412	27,571	51,973	107,627	827,668
2841	Soap and glycerin.....	34	1072	289	114	25,839	127,117	15,668	29,259	68,303	510,756
2843	Cleaning and polishing preparations.....	90	1045	1,151	581	18,026	78,550	10,551	20,206	34,593	288,590
2847	Sulfonated oils and assistants.....	74	78	103	22	2,355	13,044	1,352	2,507	4,729	28,322
285	Paints and allied products.....	95	91	1,671	542	69,973	324,005	43,673	87,408	167,344	849,895
2851	Paints and varnishes.....	95	97	1,469	486	56,580	263,227	33,865	67,660	127,640	642,656
2852	Inorganic color pigments.....	91	92	104	19	12,182	54,750	9,042	18,220	37,193	196,901
2853	Whiting and fillers.....	89	47	98	37	1,210	5,363	764	1,528	2,510	10,337
286	Gum and wood chemicals.....	76	92	117	54	7,245	26,680	6,052	12,764	19,872	62,053
2861	Hardwood distillation.....	91	100	34	21	1,627	5,222	1,384	2,896	4,114	7,419
2862	Softwood distillation.....	62	98	27	16	4,431	17,662	3,698	7,886	13,260	47,374
2863	Gum naval stores.....	28	95	26	12	516	1,281	423	927	902	2,473
2865	Tanning and dyeing materials.....	83	92	30	5	670	2,507	545	1,054	1,594	4,785
287	Fertilizers.....	91	97	840	204	31,769	111,528	24,595	53,102	76,914	252,422
2871	Fertilizers.....	91	1060	260	32	19,728	73,048	15,722	34,527	53,431	171,297
2872	Fertilizers, mixing only.....	95	1104	580	172	12,040	38,480	8,866	18,575	23,483	81,125
288	Vegetable and animal oils.....	91	82	1,013	402	39,964	152,702	31,003	71,890	105,291	385,475
2881	Cottonseed oil mills.....	96	93	286	27	13,665	43,103	11,082	27,080	29,831	101,164
2882	Linseed oil mills.....	94	90	12	...	1,263	5,625	1,026	2,479	4,860	16,679
2883	Soybean oil mills.....	82	96	88	1	6,922	26,453	5,447	11,654	20,679	106,938
2884	Vegetable oil mills, n.e.c.....	58	80	51	16	2,460	6,198	1,893	4,041	6,337	21,240
2886	Grease and tallow.....	28	55	500	339	11,466	46,633	8,480	19,567	31,291	95,451
2887	Fatty acids.....	62	73	15	2	1,891	10,163	1,185	2,712	6,009	21,922
2888	Animal oils, n.e.c.....	89	66	61	17	2,294	8,430	1,889	4,384	6,282	22,079
289	Chemical products, n.e.c.....	80	79	3,230	1,033	85,436	359,661	56,684	112,035	197,071	1,128,552
2891	Printing ink.....	90	95	271	69	7,609	35,713	5,268	10,699	20,746	87,289
2892	Essential oils.....	83	67	37	12	547	2,306	330	636	1,215	5,484
2893	Toilet preparations.....	91	1077	710	262	24,809	94,726	16,185	31,051	47,728	419,666
2894	Glue and gelatin.....	87	67	230	64	6,753	29,142	4,814	9,425	17,683	64,771
2895	Carbon black.....	100	93	47	...	3,410	16,466	2,801	6,112	13,029	62,424
2897	Compressed and liquefied gases.....	99	84	428	26	10,363	44,000	6,315	13,143	25,288	111,254
2897	Insecticides and fungicides.....	84	82	265	73	6,510	23,113	4,270	8,224	13,211	62,099
2898	Salt.....	96	97	38	12	4,017	16,779	3,346	7,299	12,694	48,936
2899	Chemical products, n.e.c.....	81	70	1,204	515	21,415	87,106	13,346	25,443	45,473	266,627
29	Petroleum and coal products.....	(NA)	(NA)	1,381	292	215,843	1,101,804	163,811	322,947	778,408	2,582,613
2911	Petroleum refining.....	90	90	409	2	153,072	816,100	113,829	223,116	570,791	1,901,333
293	Coke and byproducts.....	100	100	119	11	32,504	148,500	27,967	53,636	119,165	373,874
2931	Beehive coke ovens.....	100	101	40	11	594	2,157	548	581	1,471	2,494
2932	Byproducts coke ovens.....	100	100	79	...	31,000	146,000	27,419	53,054	117,693	371,380
295	Paving and roofing materials.....	93	95	523	105	20,097	88,106	15,768	33,638	63,372	199,584
2951	Paving mixtures and blocks.....	97	94	226	62	1,300	6,000	3,260	6,688	12,508	50,260
2952	Roofing felt and coatings.....	91	94	197	43	15,730	68,500	12,507	26,950	50,863	149,323
299	Petroleum and coal products, n.e.c.....	89	82	330	95	10,169	42,007	6,246	12,556	25,079	107,818
2992	Lubricants, n.e.c.....	87	101	283	92	8,159	40,060	4,702	9,414	18,912	85,063
2999	Petroleum and coal products, n.e.c.....	94	89	47	7	2,009	8,000	1,544	3,141	6,167	22,754
30	Rubber products.....	(NA)	(NA)	1,406	520	246,526	1,056,337	196,238	377,414	775,499	1,903,702
3011	Tires and inner tubes.....	92	99	49	4	92,748	441,000	73,976	137,981	334,104	844,545
3021	Rubber footwear.....	94	85	22	1	18,322	64,000	15,773	30,317	51,296	107,027
3031	Reclaimed rubber.....	90	74	20	2	2,953	12,000	2,460	4,602	9,671	22,042
3099	Rubber industries, n.e.c.....	98	78	1,315	115	132,503	541,111	104,028	204,513	380,427	930,086

See footnotes at end of table.



## GENERAL SUMMARY

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BY INDUSTRY GROUPS AND INDUSTRIES: 1954 AND 1947—Continued

For definitions of industries, see Appendix A—Industry Descriptions)

1954—Continued						1947							
Value of shipments	Capital expenditures, new <sup>2</sup>	Primary products specialization ratio <sup>1</sup>	Coverage ratio <sup>2</sup>	Establishments	Producers and firm members	All employees		Production workers			Value added by manufacture, unadjusted <sup>4</sup>	Value of shipments	Capital expenditures, new <sup>2</sup>
						Number <sup>3</sup>	Payroll	Number <sup>3</sup>	Man-hours	Wages			
(\$1,000)	(\$1,000)			(Number)	(Number)		(\$1,000)		(1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)
6,771,154	430,665	(NA)	(NA)	563	52	203,914	6,804,665	157,842	322,687	458,422	1,536,066	6,771,154	397,168
77,154	2,199	8	78	46	1	1,972	5,490	1,633	3,727	4,527	17,071	60,639	1,981
715,602	72,067	10	10	10	...	33,603	115,076	25,539	52,000	80,473	259,771	478,552	2822
1,231,448	108,058	92	10	123	6	28,607	91,397	21,810	46,250	63,295	197,558	478,331	58,386
361,093	13,760	10	10	20	...	7,663	25,774	5,721	11,262	18,381	97,356	235,200	4,121
1,240,942	62,751	97	10	38	...	69,683	199,910	57,857	116,820	150,380	432,285	705,271	2824
389,638	17,279	87	99	76	3	10,426	32,313	8,932	18,121	26,051	74,706	136,356	6,050
2,198,687	154,550	(10)	(10)	167	37	51,940	178,086	36,350	74,507	115,315	456,319	973,044	2829
(6)	55,761	NA	(NA)	1,354	543	81,497	236,191	54,447	110,124	132,765	747,311	74,355	283
60,973	2,510	87	57	84	55	2,987	8,474	2,189	...	...	19,161	37,737	1,360
252,478	12,948	73	74	107	31	13,097	42,220	9,920	21,074	29,277	119,525	218,156	14,190
1,643,140	40,303	91	98	1,163	457	65,413	185,497	42,338	84,526	98,494	608,625	941,290	59,405
(6)	27,648	(NA)	(NA)	1,391	774	44,864	149,497	29,654	62,408	81,852	606,801	35,125	284
959,679	13,358	81	91	247	106	27,508	93,187	19,304	41,058	57,391	449,792	1,084,032	24,080
560,059	12,711	70	1052	1,038	631	15,387	48,324	9,093	18,624	20,983	136,602	264,610	9,655
62,977	1,578	77	76	106	37	1,969	7,986	1,257	2,726	3,478	20,407	52,075	1,390
(6)	30,092	(NA)	(NA)	1,457	550	68,933	228,559	46,598	99,226	127,508	583,557	53,524	285
1,494,399	21,268	94	96	1,291	495	53,412	180,952	34,693	73,599	94,155	469,584	1,248,841	33,884
371,395	8,358	88	84	19	14,266	43,466	11,086	23,845	31,303	104,978	287,046	19,329	2852
24,203	(13)	81	53	71	36	1,255	4,141	819	1,782	2,050	8,995	18,791	311
(6)	7,742	(NA)	(NA)	117	66	8,447	20,472	7,370	15,404	16,308	62,796	3,700	286
16,006	(13)	94	96	13	13	1,879	4,157	1,624	3,412	3,328	7,528	608	2861
88,650	6,662	83	99	31	24	4,567	11,798	4,065	8,417	6,640	46,026	72,921	2,488
24,840	(13)	98	99	31	25	638	1,385	512	1,185	947	2,634	336	2863
13,818	(13)	88	78	27	4	1,363	3,132	1,169	2,390	2,393	6,608	17,775	268
(6)	46,587	98	95	705	216	31,972	71,700	26,610	57,043	52,842	186,926	17,133	287
533,448	33,762	92	60	187	13	20,357	47,928	17,359	37,802	37,235	126,919	312,229	10,823
329,328	12,825	98	104	518	203	11,615	23,772	9,251	19,241	15,607	60,007	193,318	6,310
(6)	41,442	(NA)	(NA)	1,192	625	43,323	116,926	35,788	85,385	85,751	482,002	51,816	288
546,430	11,680	90	90	315	47	14,398	31,419	12,136	30,996	22,560	104,603	518,091	9,804
139,619	1,311	77	87	17	...	1,577	4,536	1,349	2,838	3,628	42,243	192,173	5,086
826,362	8,479	96	80	133	34	6,460	18,773	5,076	11,459	13,454	105,291	585,709	15,887
165,982	2,470	80	89	84	16	5,036	13,356	4,292	10,182	9,873	77,509	334,231	5,252
222,516	8,138	90	1052	554	477	12,364	38,588	9,967	23,351	28,419	118,356	303,291	12,611
55,991	4,819	86	76	16	3	1,335	4,433	1,037	2,239	3,055	17,151	68,094	1,427
65,374	4,544	94	(10)	73	48	2,153	5,821	1,931	4,320	4,727	16,849	42,940	1,749
(6)	67,398	(NA)	(NA)	2,832	1,103	81,020	232,297	57,565	122,372	139,552	686,358	55,583	289
180,638	6,336	92	98	239	57	6,021	20,496	4,154	9,005	11,890	51,949	115,708	2,973
20,832	(13)	71	92	16	16	1,151	3,787	896	1,761	2,510	14,477	35,739	593
628,651	7,537	84	1072	719	330	27,247	69,398	19,047	38,297	38,978	232,118	381,371	9,192
139,352	2,945	82	76	174	19	7,936	25,453	5,762	9,487	16,502	66,290	145,157	3,249
101,616	10,597	100	97	59	...	3,184	10,017	2,834	6,073	8,456	44,962	73,592	7,023
167,674	19,840	100	84	371	17	8,983	25,241	6,139	13,247	16,996	66,833	93,489	9,709
174,613	2,988	87	68	165	54	4,060	11,524	2,789	5,761	6,448	25,018	67,010	1,438
71,933	4,328	100	32	38	5	4,809	12,762	4,056	8,592	9,826	25,197	46,056	4,181
531,213	12,586	75	64	1,025	605	17,629	53,619	11,688	30,149	27,946	159,514	318,063	15,225
(6)	753,184	(NA)	(NA)	1,411	398	207,618	725,983	165,405	354,089	543,362	1,990,944	399,754	29
11,757,218	656,033	99	97	437	103	145,806	535,781	113,847	237,506	396,236	1,490,474	6,623,708	316,370
(6)	79,301	100	100	149	62	32,819	101,014	29,232	69,633	85,610	243,013	64,263	292
9,042	(13)	100	100	78	62	3,100	10,251	2,935	5,971	9,597	21,661	70,237	376
1,241,327	79,277	100	1092	71	...	29,719	90,763	26,297	63,662	76,013	221,352	854,025	63,887
(6)	13,155	(NA)	(NA)	438	111	19,291	58,117	15,803	35,490	44,053	155,814	15,134	295
126,561	5,367	99	98	264	75	2,785	8,565	2,042	4,581	5,618	23,249	50,977	2,924
400,826	7,787	95	95	174	36	16,506	49,552	13,761	30,909	38,435	132,565	338,219	12,210
(6)	4,694	(NA)	(NA)	387	122	9,702	31,071	6,523	11,460	17,463	97,643	3,987	296
224,216	4,314	89	1019	275	67	8,002	26,263	5,070	8,455	13,421	80,289	199,357	3,168
58,486	(13)	100	100	112	55	1,697	4,808	1,453	3,005	4,042	17,354	47,491	819
(6)	128,431	(NA)	(NA)	872	366	258,237	781,378	213,823	423,667	613,189	1,299,491	109,783	297
1,841,732	67,430	90	95	57	19	115,657	390,841	93,916	185,392	311,276	650,165	1,547,040	54,883
166,367	4,217	80	99	26	1	28,125	72,666	23,952	48,954	58,462	121,040	198,691	4,982
38,996	2,834	95	44	15	14	2,070	6,849	1,855	4,015	5,826	9,604	17,263	2,864
1,677,072	53,949	85	81	774	332	112,385	311,022	94,100	185,306	237,625	518,682	945,257	47,054

## GENERAL SUMMARY

Table 2A.—GENERAL STATISTICS FOR OPERATING MANUFACTURING ESTABLISHMENTS

(For explanation of column captions see Introduction.)

Code	Industry group and industry	1954									
		Primary products specialization ratio <sup>1</sup>	Coverage ratio <sup>2</sup>	Establishments (Number)	Proprietors and firm members (Number)	All employees		Production workers			Value added by manufacture, adjusted <sup>4</sup>
						Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>3</sup>	Man-hours	Wages (\$1,000)	
31	Leather and leather products.....	(NA)	(NA)	4,845	2,565	356,578	1,027,314	321,161	586,857	833,694	1,637,417
3111	Leather tanning and finishing.....	93	100	579	208	43,468	168,130	38,662	75,689	137,487	264,264
3121	Industrial leather belting.....	97	92	136	57	4,576	18,569	3,342	6,513	11,484	34,911
3131	Footwear cut stock.....	97	96	563	271	20,059	57,113	17,641	32,533	44,231	87,185
314	Footwear (except rubber).....	100	100	1,369	363	230,255	619,332	209,568	373,455	513,053	985,754
3141	Footwear, except rubber.....	99	99	1,196	291	219,375	589,267	199,907	356,681	490,742	940,704
3142	House slippers.....	99	87	173	72	10,279	30,065	9,661	16,773	22,911	45,090
315	Leather gloves.....	92	90	239	185	6,917	15,573	6,182	10,433	12,345	23,185
3151	Leather dress gloves.....	86	91	143	107	4,472	9,739	3,969	6,518	7,642	13,559
3152	Leather work gloves.....	82	81	96	78	2,470	5,834	2,212	3,915	4,702	9,626
3161	Luggage.....	94	97	497	362	15,856	51,679	13,960	27,417	39,753	89,385
317	Purses and small leather goods.....	96	96	973	710	29,544	80,434	26,693	50,978	62,947	125,517
3171	Handbags and purses.....	97	98	714	490	22,321	61,405	20,911	39,942	49,620	92,968
3172	Small leather goods.....	91	87	259	220	6,663	19,029	5,782	11,035	13,326	32,549
319	Miscellaneous leather goods.....	92	85	489	409	5,400	16,472	5,109	9,835	12,392	27,211
3192	Saddlery, harness, and whips.....	88	77	106	99	1,229	3,533	1,113	2,168	2,690	5,116
3199	Leather goods, n.e.c.....	91	82	383	310	4,611	12,938	3,996	7,667	9,702	22,095
32	Stone, clay, and glass products.....	(NA)	(NA)	11,162	7,843	491,814	1,938,085	412,031	827,012	1,496,029	3,821,659
3211	Flat glass.....	1000	(D)	32	...	24,559	132,509	21,389	44,344	114,966	252,313
322	Pressed and blown glassware.....	99	99	372	172	91,334	354,568	79,082	154,346	287,883	674,382
3221	Glass containers.....	98	99	85	1	49,410	195,944	44,076	87,672	166,107	377,161
3229	Pressed and blown glass, n.e.c.....	98	96	287	171	41,924	158,623	35,006	66,673	121,776	297,221
3231	Products of purchased glass.....	97	75	259	580	21,614	87,529	18,203	36,377	68,285	192,644
324	Different, hydraulic.....	99	100	162	...	39,769	167,659	34,036	70,839	134,777	523,920
325	Structural clay products.....	97	99	1,053	375	72,814	267,165	63,565	129,764	213,839	425,356
3251	Brick and hollow tile.....	96	92	610	201	25,326	114,740	28,751	61,048	93,114	183,312
3253	Floor and wall tile.....	91	99	49	16	11,265	43,488	9,627	19,706	33,718	70,606
3254	Cover pipe.....	88	92	66	2	9,637	35,446	8,686	17,171	29,615	55,293
3255	Clay refractories.....	92	95	177	27	14,463	55,604	12,204	22,783	43,006	88,753
3259	Structural clay products, n.e.c.....	89	72	151	129	5,022	17,887	4,296	9,054	14,385	27,391
326	Pottery and related products.....	98	95	867	713	50,934	173,562	44,762	82,229	139,277	260,062
3261	Vitreous plumbing fixtures.....	99	99	37	3	9,200	40,541	7,785	15,676	32,987	76,740
3262	Vitreous-china food utensils.....	95	96	34	11	8,704	28,161	7,693	14,061	22,622	36,184
3263	Earthenware food utensils.....	98	92	47	15	13,335	38,742	12,333	19,467	32,468	49,751
3264	Porcelain electrical supplies.....	94	87	45	6	7,950	37,679	7,990	15,847	28,629	54,675
3265	China decorating for the trade.....	100	100	50	48	497	1,304	437	864	1,033	2,148
3269	Pottery products, n.e.c.....	95	95	654	627	9,647	27,134	8,521	16,313	21,536	40,562
327	Concrete and plaster products.....	96	98	5,410	4,615	87,610	340,287	70,328	149,022	241,437	705,513
3271	Concrete products.....	95	99	5,090	4,503	60,410	216,954	46,659	96,707	146,075	396,344
3272	Gypsum products.....	95	92	90	25	10,466	48,639	9,278	21,927	39,715	161,898
3274	Lime.....	84	94	145	71	7,489	30,645	6,835	14,456	24,454	57,523
3275	Mineral wool.....	95	93	85	16	10,244	44,049	7,555	15,931	31,191	84,827
3281	Cut-stone and stone products.....	93	94	977	741	41,576	78,240	18,410	36,721	60,650	119,765
329	Nonmetallic mineral products, n.e.c.....	94	89	1,430	647	79,598	336,563	62,253	123,367	234,912	662,699
3291	Abrasive products.....	87	87	312	120	22,345	101,218	15,756	30,417	62,040	191,850
3292	Asbestos products.....	87	93	110	13	21,777	92,413	17,760	35,985	70,319	179,864
3293	Gaskets and asbestos insulations.....	86	70	237	99	12,307	55,115	10,128	20,340	37,241	84,885
3295	Minerals: ground or treated.....	98	87	353	106	7,639	32,404	6,401	13,784	24,312	89,725
3297	Nonclay refractories.....	96	90	77	7	8,559	34,260	7,150	12,890	26,124	78,071
3298	Statuary and art goods.....	89	99	220	258	1,726	5,315	1,450	2,822	3,932	8,332
3299	Nonmetallic mineral products, n.e.c.....	84	94	121	44	4,483	15,835	3,605	7,126	10,943	30,340
33	Primary metal industries.....	(NA)	(NA)	5,832	2,402	1,117,059	5,097,466	938,511	1,812,027	3,985,548	9,372,910
331	Blast furnaces and steel mills.....	96	100	320	1	530,051	2,469,967	449,800	843,684	1,969,629	4,755,233
3312	Steel works and rolling mills.....	1000	100	289	...	518,690	2,418,635	440,966	826,070	1,932,734	4,640,515
3313	Electrometallurgical products.....	1000	95	31	1	11,361	51,332	8,834	17,614	36,895	114,718
332	Iron and steel foundries.....	94	90	1,734	646	212,365	895,728	184,149	354,224	716,414	1,339,270
3321	Gray-iron foundries.....	94	87	1,414	610	133,314	557,535	118,288	230,234	459,049	846,271
3322	Malleable-iron foundries.....	94	89	11	1	23,372	96,888	20,205	38,306	78,004	135,175
3323	Steel foundries.....	94	87	239	35	55,073	241,305	45,655	85,684	179,361	357,824

See footnotes at end of table.



## GENERAL SUMMARY

15

BY INDUSTRY GROUPS AND INDUSTRIES: 1954 AND 1947—Continued

For definitions of industries, see Appendix A—Industry Descriptions)

1954—Continued		1947												Code
Value of shipments	Capital expenditures, new <sup>2</sup>	Primary products specialization, ratio <sup>1</sup>	Coverage, ratio <sup>1,2</sup>	Establishments	Proprietors and firm members	All employees		Production workers			Value added by manufacture, unadjusted <sup>4</sup>	Value of shipments	Capital expenditures, new <sup>5</sup>	
						Number <sup>3</sup>	Payroll	Number <sup>3</sup>	Man-hours	Wages				
(\$1,000)	(\$1,000)			(Number)	(Number)		(\$1,000)		(1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	
( <sup>6</sup> )	28,053	(NA)	(NA)	5,308	3,496	383,264	873,746	348,615	677,001	725,308	1,533,028	( <sup>6</sup> )	31,301	31
706,174	7,123	100	100	561	230	53,261	156,632	48,686	101,101	130,700	403,831	1,070,267	10,565	3111
62,165	1,955	91	91	183	97	5,007	13,441	4,015	8,285	9,667	28,375	57,403	1,320	3121
246,373	3,063	99	97	606	417	22,077	47,793	19,706	38,145	38,468	87,301	294,309	1,921	3131
( <sup>6</sup> )	12,084	(NA)	(NA)	1,500	466	240,315	516,879	220,654	419,652	438,894	785,543	( <sup>6</sup> )	13,344	314
1,790,717	11,420	99	100	1,292	344	230,882	496,990	212,213	403,731	423,181	751,528	1,726,609	12,587	3141
90,466	(NA)	93	83	217	117	9,433	19,889	8,441	15,921	15,713	34,015	67,388	757	3142
( <sup>6</sup> )	122	91	91	341	363	11,577	20,798	10,491	18,222	17,091	32,088	( <sup>6</sup> )	528	315
28,430	(13)	94	95	250	288	8,857	15,641	8,047	13,486	12,958	32,678	46,829	302	3151
17,771	(13)	82	82	91	75	2,720	5,157	2,444	4,736	4,133	8,410	16,609	226	3152
168,902	1,868	94	97	591	562	16,002	41,055	13,852	27,684	30,981	67,662	132,868	1,842	3161
( <sup>6</sup> )	1,495	97	95	982	842	25,984	57,266	23,310	48,009	44,298	96,532	( <sup>6</sup> )	1,113	317
188,782	972	99	97	736	601	20,378	45,664	18,468	38,876	36,168	77,042	163,306	799	3171
57,256	522	90	90	246	241	5,606	11,602	4,842	9,133	8,130	19,490	37,649	314	3172
( <sup>6</sup> )	340	(NA)	(NA)	544	519	9,016	19,882	7,901	15,903	15,209	31,696	( <sup>6</sup> )	668	319
10,842	(13)	86	92	140	111	2,861	6,294	2,501	5,117	5,021	20,459	40,935	194	3192
39,970	(13)	90	91	408	408	6,155	13,588	5,400	10,786	10,188	22,259	40,935	474	3199
( <sup>6</sup> )	300,647	(NA)	(NA)	11,643	10,323	461,037	1,206,903	404,930	838,320	991,966	2,298,521	( <sup>6</sup> )	285,066	32
370,503	30,964	91	75	32	...	25,268	77,940	22,563	43,619	67,861	158,746	223,715	11,618	3211
( <sup>6</sup> )	37,417	(NA)	(NA)	213	62	8,342	230,287	79,417	162,779	193,954	421,518	( <sup>6</sup> )	49,096	322
635,121	26,542	(D)	(D)	87	4	47,132	126,503	41,943	87,530	107,101	252,069	422,614	32,775	3221
411,322	10,875	96	91	126	54	42,170	103,784	37,474	75,249	86,853	169,449	234,795	16,321	3229
372,383	5,590	97	85	1,048	34	23,920	61,508	20,748	41,584	48,449	129,857	214,873	6,398	3231
811,125	73,015	100	100	155	1	35,662	98,626	30,639	66,341	79,861	247,936	408,928	42,468	3241
( <sup>6</sup> )	31,561	(NA)	(NA)	1,109	514	69,258	169,153	62,676	131,210	144,019	280,320	( <sup>6</sup> )	27,632	325
250,411	16,233	95	97	674	328	29,617	69,399	27,002	58,367	59,876	110,867	144,497	13,266	3251
97,334	4,579	97	95	37	18	6,828	16,335	6,250	13,088	13,774	31,238	40,966	2,277	3253
73,930	3,118	83	92	69	6	9,105	22,421	8,310	17,013	19,552	38,362	47,854	4,183	3254
136,369	5,702	93	94	168	19	17,963	47,048	15,937	31,810	38,663	75,982	109,260	5,875	3255
36,400	1,928	81	70	161	144	5,745	13,950	5,177	10,932	12,154	23,871	28,814	2,031	3259
( <sup>6</sup> )	10,634	(NA)	(NA)	742	654	58,006	146,962	53,376	107,064	126,677	224,792	( <sup>6</sup> )	15,940	326
116,267	1,061	98	99	33	4	7,831	24,615	6,996	14,591	21,187	45,677	68,093	2,850	3261
44,478	1,333	97	97	27	14	11,100	26,849	10,326	20,228	23,530	35,228	43,196	2,692	3262
66,421	1,528	92	97	76	51	16,747	42,091	15,742	29,733	37,175	54,837	72,054	4,784	3263
77,896	5,357	89	93	50	12	11,547	30,463	10,447	21,553	25,454	52,832	71,484	2,904	3264
3,779	(13)	100	98	65	52	1,048	2,471	875	1,811	1,679	5,143	8,377	82	3265
55,333	2,321	95	83	491	519	9,733	20,473	8,990	19,148	17,652	31,075	39,927	3,628	3269
( <sup>6</sup> )	61,680	(NA)	(NA)	6,494	7,001	70,176	169,559	61,572	134,302	140,032	346,761	( <sup>6</sup> )	84,014	327
736,273	40,548	99	99	6,158	6,899	46,811	106,484	41,537	89,031	88,471	202,789	329,734	35,692	3271
282,177	10,227	97	98	73	7	7,472	21,384	6,543	15,552	17,911	67,879	127,543	24,386	3272
109,226	4,835	93	97	172	59	7,009	18,767	6,129	14,200	15,516	39,253	72,842	10,745	3274
156,907	6,068	(D)	(D)	91	36	8,174	22,924	7,363	15,519	18,134	36,840	73,131	13,191	3275
181,784	4,296	100	98	640	581	8,840	25,922	8,312	17,257	20,605	45,940	67,253	2,274	3281
( <sup>6</sup> )	45,488	(NA)	(NA)	1,210	670	79,565	226,946	65,627	134,164	170,508	442,651	( <sup>6</sup> )	45,606	329
332,512	9,857	94	91	254	127	21,042	67,114	16,068	31,683	45,674	127,954	225,399	11,820	3291
346,206	14,935	87	90	112	24	21,595	60,529	18,255	37,731	47,761	113,305	206,167	12,960	3292
153,402	4,954	83	75	193	73	13,178	36,667	10,923	22,182	27,476	66,568	120,093	3,966	3293
149,357	10,226	94	88	217	46	8,873	24,126	7,417	16,880	18,356	55,556	90,199	8,780	3295
131,097	3,739	94	91	63	4	10,273	27,783	8,951	17,626	22,963	58,022	90,337	5,772	3297
11,774	(13)	91	97	272	359	2,025	4,268	1,829	3,640	3,534	7,391	9,998	138	3298
55,314	1,574	86	76	99	37	2,579	6,459	2,184	4,422	4,744	13,855	25,942	2,170	3299
( <sup>6</sup> )	831,095	(NA)	(NA)	5,364	2,893	1,158,158	3,601,791	1,012,008	2,053,663	2,982,736	5,733,028	( <sup>6</sup> )	592,177	33
( <sup>6</sup> )	523,543	(NA)	(NA)	318	4	545,724	1,732,428	478,652	953,778	1,454,160	2,657,075	( <sup>6</sup> )	368,365	331
( <sup>6</sup> )	501,230	(10)	(10)	299	4	536,096	1,703,143	470,477	937,100	1,430,711	2,601,582	( <sup>6</sup> )	363,070	3312
271,767	22,313	1028	95	19	...	9,628	29,285	8,175	16,678	23,449	55,493	150,904	5,295	3313
( <sup>6</sup> )	76,332	(NA)	(NA)	1,936	939	266,010	789,717	238,261	490,942	669,502	1,117,403	( <sup>6</sup> )	75,745	332
1,418,947	49,939	92	87	1,655	904	173,813	512,245	157,395	328,537	441,716	732,807	1,173,039	54,097	3321
212,354	9,966	88	91	78	1	29,862	90,811	26,659	54,650	76,750	121,661	184,400	8,184	3322
534,718	16,426	89	83	203	34	62,335	186,661	54,207	107,755	151,036	262,935	403,175	13,464	3323

Table 2A.—GENERAL STATISTICS FOR OPERATING MANUFACTURING ESTABLISHMENTS  
(For explanation of column captions see Introduction.)

		1954									
Code	Industry group and industry	Primary products specialization ratio <sup>1</sup>	Coverage ratio <sup>2</sup>	Establishments (Number)	Proprietors and firm members (Number)	All employees		Production workers			Value added by manufacture, unadjusted <sup>4</sup> (\$1,000)
						Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>3</sup>	Man-hours (1,000)	Wages (\$1,000)	
Primary metal industries—Continued											
332	Primary nonferrous metals.....	91	94	104	11	54,497	244,634	44,884	90,386	191,756	614,159
3331	Primary copper.....	(10)	(10)	27	...	13,818	59,783	11,705	23,596	48,442	156,981
3332	Primary lead.....	(10)	(10)	13	...	4,063	17,393	3,312	6,659	13,142	30,772
3333	Primary zinc.....	87	91	21	...	10,470	44,047	8,638	16,546	34,104	87,501
3334	Primary aluminum.....	100	99	16	...	20,626	96,813	16,982	35,335	77,174	264,201
3339	Primary nonferrous metals, n.e.c.....	...	50	27	10	5,519	26,601	4,246	8,242	18,892	74,703
3341	Secondary nonferrous metals.....	92	64	360	147	15,775	71,707	12,204	25,121	46,711	142,329
335	Nonferrous rolling and drawing.....	96	...	281	36	89,090	410,350	71,527	144,556	305,336	860,228
3351	Copper rolling and drawing.....	95	...	89	7	41,906	195,225	34,072	68,017	147,874	420,604
3352	Aluminum rolling and drawing.....	92	...	94	17	36,803	164,938	29,795	60,652	125,617	339,717
3359	Nonferrous rolling and drawing, n.e.c.....	...	84	98	12	10,381	50,157	7,660	15,926	31,844	99,907
3361	Nonferrous foundries.....	...	92	1,920	1,225	73,487	327,006	61,573	124,041	251,374	476,969
339	Primary metal industries, n.e.c.....	94	35	1,119	335	141,790	677,201	114,370	229,072	504,324	1,184,721
3391	Iron and steel forgings.....	88	73	259	78	39,771	201,033	33,012	65,120	155,311	304,258
3392	Wire drawing.....	...	103	198	31	54,873	250,558	43,246	87,152	182,385	465,654
3393	Welded and heavy-riveted pipe.....	91	1030	82	14	22,085	108,374	18,388	37,473	83,472	204,325
3399	Primary metal industries, n.e.c.....	92	1020	574	212	25,060	116,330	19,723	40,115	83,154	210,482
34	Fabricated metal products.....	(NA)	(NA)	22,516	13,908	1,019,406	4,397,007	821,172	1,652,366	3,174,186	7,596,275
3411	Tin cans and other tinware.....	8	99	227	37	55,234	245,134	48,008	97,574	202,112	482,297
342	Cutlery, hand tools, and hardware.....	97	90	1,930	1,019	143,676	599,952	117,706	235,874	444,178	1,044,425
3421	Cutlery.....	98	96	182	91	15,102	56,300	12,762	24,578	39,600	122,357
3422	Edge tools.....	93	76	247	149	7,108	29,174	5,517	11,614	21,428	48,027
3423	Hand tools, n.e.c.....	80	83	503	267	23,385	93,426	18,814	36,655	66,701	162,051
3424	Files.....	98	93	30	14	2,904	11,538	2,667	4,734	10,141	16,163
3425	Hand-saws and saw blades.....	71	90	99	45	6,879	29,227	5,327	10,520	19,927	53,246
3429	Hand tools, n.e.c.....	76	80	869	453	88,296	380,064	72,708	147,920	286,371	634,578
343	Heating and plumbing equipment.....	85	24	1,220	444	105,888	451,342	82,806	162,498	316,577	828,467
3431	Plumbing fixtures and fittings.....	87	21	321	141	30,612	132,070	25,675	50,700	102,346	240,944
3439	Heating and cooking apparatus, n.e.c.....	80	25	809	303	75,276	319,672	57,131	111,742	214,231	587,523
344	Structural metal products.....	...	91	7,421	4,671	284,121	1,280,003	216,309	440,005	873,910	2,203,635
3441	Structural and ornamental products.....	80	92	2,917	1,943	116,274	527,386	88,065	179,001	352,662	909,782
3442	Metal doors, sash, and trim.....	87	89	1,106	491	43,284	184,174	33,028	66,400	125,317	334,956
3443	Boiler shop products.....	82	81	977	472	74,373	342,060	57,217	115,094	239,967	578,568
3444	Sheet-metal work.....	81	80	2,421	1,765	50,190	227,672	38,507	77,609	155,971	380,327
346	Metal stamping and coating.....	85	(NA)	5,553	3,760	183,844	777,393	154,010	309,364	579,335	1,450,074
3461	Vitreous-enamelled products.....	72	65	51	11	7,272	25,366	6,046	11,030	19,270	36,618
3463	Metal stampings.....	82	83	2,269	1,144	128,200	569,467	106,293	214,598	421,432	923,939
3465	Enameling and lacquering.....	(10)	(10)	380	269	5,503	19,334	4,735	9,074	14,426	29,992
3466	Galvanizing.....	(10)	(10)	133	79	3,178	12,561	2,695	5,604	9,232	14,945
3467	Engraving on metal.....	(10)	(10)	269	231	3,624	15,000	3,030	6,110	10,081	20,508
3468	Plating and polishing.....	(10)	(10)	2,451	2,026	36,066	136,933	31,221	62,879	105,443	214,070
3471	Lighting fixtures.....	90	91	1,228	719	45,078	181,051	30,361	75,060	148,759	323,711
348	Fabricated wire products.....	89	1057	1,352	816	62,630	254,320	52,391	104,105	189,385	430,815
3481	Nails and spikes.....	89	1016	77	18	2,701	10,420	2,324	4,776	7,550	18,447
3489	Wirework, n.e.c.....	85	1015	1,275	798	59,929	243,904	50,067	99,320	191,835	412,368
349	Metal products, n.e.c.....	91	81	3,585	2,442	138,930	606,334	112,988	229,264	439,318	1,037,849
3491	Metal barrels, drums, and pails.....	82	80	93	12	10,585	48,501	3,687	17,924	37,058	85,865
3492	Self-cleaning vaults.....	87	87	26	16	3,442	15,030	2,581	5,050	10,341	28,974
3493	Steel springs.....	84	74	101	58	7,078	33,704	6,650	11,429	24,510	40,152
3494	Bolts, nuts, washers, and rivets.....	91	89	457	184	53,729	246,235	42,300	86,427	173,019	411,662
3495	Screw machine products.....	93	8	1,795	1,421	35,009	151,440	29,694	61,000	112,641	246,886
3496	Collapsible tubes.....	93	100	21	7	4,302	14,934	3,856	7,440	11,783	32,039
3497	Metal foil.....	92	80	66	23	6,713	28,600	5,550	11,529	21,981	62,604
3499	Fabricated metal products, n.e.c.....	...	53	1,026	721	18,069	68,191	14,556	28,008	47,982	120,464
35	Machinery except electrical.....	(NA)	(NA)	25,601	16,558	1,541,505	7,190,563	1,171,523	2,369,610	4,979,972	12,338,923
351	Engines and turbines.....	80	84	141	20	81,955	399,080	60,656	121,000	278,347	600,131
3511	Steam engines and turbines.....	79	87	22	1	30,178	158,801	21,382	44,800	109,650	295,367
3519	Internal combustion engines.....	80	83	119	28	51,777	240,279	39,273	77,190	168,696	304,764
352	Tractors and farm machinery.....	80	...	1,360	846	139,118	602,161	105,514	205,067	423,692	1,050,370
3521	Tractors.....	85	93	154	63	64,742	287,118	49,543	95,261	205,993	516,484
3522	Farm machinery (except tractors).....	8	90	1,206	783	74,376	315,033	55,071	109,006	217,699	533,886
353	Construction and mining machinery.....	87	85	971	375	109,385	509,501	79,706	160,371	327,957	801,408
3531	Construction and mining machinery.....	86	81	626	220	75,698	347,608	55,563	110,704	225,637	507,670
3532	Oilfield machinery and tools.....	80	...	345	155	33,687	161,000	24,143	49,077	102,320	210,737

See footnotes at end of table.



## GENERAL SUMMARY

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BY INDUSTRY GROUPS AND INDUSTRIES: 1954 AND 1947—Continued

For definitions of industries, see Appendix A—Industry Descriptions)

1954—Continued		1947											Code	
Value of shipments	Capital expenditures, new <sup>2</sup>	Primary products specialization ratio <sup>1</sup>	Coverage ratio <sup>2</sup>	Establishments	Proprietors and firm members	All employees		Production workers			Value added by manufacture, in adjusted <sup>4</sup>	Value of shipments		Capital expenditures, new <sup>5</sup>
						Number <sup>3</sup>	Payroll	Number <sup>3</sup>	Man-hours	Wages				
( <sup>6</sup> )	58,107	(NA)	(NA)	89	4	43,117	127,705	37,635	80,994	107,776	284,695	( <sup>6</sup> )	17,306	333
( <sup>6</sup> )	4,234	( <sup>10</sup> )	( <sup>10</sup> )	27	...	14,629	44,790	13,065	29,751	38,967	93,196	( <sup>6</sup> )	4,176	333
( <sup>6</sup> )	1,404	( <sup>10</sup> )	( <sup>10</sup> )	16	...	4,663	14,082	4,022	8,879	11,610	35,902	( <sup>6</sup> )	2,649	333
230,515	5,276	(NA)	100	20	...	12,424	35,476	11,088	22,232	30,475	77,068	190,996	6,739	333
604,076	26,073	(NA)	100	11	...	8,919	26,398	7,336	16,014	20,930	65,262	161,010	2,791	3334
233,648	21,119	(NA)	100	15	4	2,482	6,959	2,124	4,118	5,794	13,267	24,253	951	3339
724,643	9,553	(NA)	(NA)	321	158	18,089	55,897	14,511	31,023	38,561	119,153	721,956	7,225	3341
( <sup>6</sup> )	63,188	(NA)	(NA)	162	11	88,824	264,117	74,796	151,518	209,657	503,363	( <sup>6</sup> )	33,828	335
1,320,608	30,540	(NA)	92	79	5	53,891	166,148	45,946	93,741	134,019	302,687	1,064,033	21,617	3351
274,408	21,402	(NA)	96	29	2	27,365	73,665	22,786	45,334	57,544	150,697	404,766	9,897	3352
300,715	11,246	(NA)	94	54	4	7,568	24,304	6,064	12,443	18,094	49,979	192,715	2,314	3359
873,790	24,779	93	92	1,725	1,431	66,798	203,314	58,609	119,141	166,697	300,628	573,190	19,017	3361
( <sup>6</sup> )	75,590	(NA)	(NA)	813	346	129,596	428,613	109,544	226,267	336,383	750,711	( <sup>6</sup> )	70,691	339
595,434	15,862	( <sup>10</sup> )	77	250	92	36,724	128,198	32,384	66,469	105,776	197,111	370,097	9,230	3391
1,266,436	35,729	96	1037	134	32	55,026	175,514	45,565	94,772	136,597	314,602	912,891	43,893	3392
525,788	9,134	92	1026	52	10	15,711	52,651	13,517	26,906	41,225	100,356	244,214	5,760	3393
538,576	14,864	94	1026	377	212	22,135	72,250	18,078	38,120	52,785	138,642	339,663	11,808	3399
( <sup>6</sup> )	432,491	(NA)	(NA)	16,777	12,348	973,174	2,833,684	823,012	1,694,666	2,189,032	4,920,304	( <sup>6</sup> )	304,822	34
1,366,766	50,093	97	99	215	24	46,760	126,941	40,779	84,715	105,394	231,503	678,924	20,183	3411
( <sup>6</sup> )	60,796	(NA)	(NA)	1,866	1,245	154,507	433,483	131,992	273,008	340,049	729,209	( <sup>6</sup> )	39,288	342
169,750	2,393	93	94	195	125	20,248	54,142	17,579	37,219	42,530	104,833	142,571	5,774	3421
69,721	1,611	81	76	237	166	8,540	23,725	7,428	15,173	18,843	39,177	60,425	2,567	3422
256,991	7,047	81	85	578	410	35,359	102,245	29,910	62,554	78,448	172,564	269,415	8,653	3423
27,314	725	94	93	37	19	4,446	11,213	4,084	9,714	19,149	24,493	1,113	3424	
83,682	1,582	78	87	83	43	8,441	25,600	7,380	15,543	20,872	42,975	70,430	4,033	3425
1,111,529	47,436	89	91	730	482	77,473	216,558	65,611	134,637	169,642	350,511	586,010	17,148	3429
( <sup>6</sup> )	35,949	(NA)	(NA)	1,277	569	151,565	441,192	127,325	261,035	340,863	792,756	( <sup>6</sup> )	57,824	343
443,260	12,286	90	92	279	146	34,748	98,316	30,698	62,414	81,849	159,081	298,545	9,839	3431
1,146,608	23,663	86	86	998	423	116,817	342,876	96,627	198,621	259,014	633,675	1,241,573	47,985	3439
( <sup>6</sup> )	102,197	(NA)	(NA)	4,547	3,304	213,020	657,799	171,968	359,354	483,258	1,141,417	( <sup>6</sup> )	63,583	344
1,809,971	37,768	36	28	1,665	1,170	79,077	246,766	63,786	134,889	178,470	435,952	855,101	21,850	3441
638,501	22,097	84	87	364	193	23,336	72,176	19,100	40,347	53,630	129,366	232,768	6,668	3442
1,133,670	23,561	80	80	812	523	68,232	207,118	54,185	111,259	151,698	351,139	686,687	21,908	3443
738,481	18,770	83	82	1,706	1,418	42,375	131,739	34,897	72,859	99,460	224,960	420,525	13,157	3444
( <sup>6</sup> )	55,562	(NA)	(NA)	4,440	3,859	184,020	524,760	160,893	325,955	417,664	866,562	( <sup>6</sup> )	56,286	346
65,523	1,222	75	67	47	7	11,560	26,165	10,487	19,946	21,237	42,338	68,796	2,977	3461
1,727,544	38,068	86	81	1,985	1,332	133,401	392,474	115,238	234,088	307,904	648,891	1,177,396	44,846	3463
45,090	1,371	( <sup>10</sup> )	( <sup>10</sup> )	261	248	4,025	10,188	3,653	7,395	8,653	16,638	23,868	965	3465
31,681	1,193	( <sup>10</sup> )	( <sup>10</sup> )	123	98	2,916	8,231	2,581	5,405	6,203	14,356	26,065	681	3466
27,365	845	( <sup>10</sup> )	( <sup>10</sup> )	220	231	3,492	10,199	2,983	6,244	8,279	16,449	20,876	680	3467
304,352	12,862	( <sup>10</sup> )	( <sup>10</sup> )	1,804	1,943	28,626	77,503	25,951	52,877	65,388	127,890	180,676	6,137	3468
641,569	14,217	90	89	1,202	802	46,891	131,279	39,393	79,598	96,291	239,191	465,422	9,797	3471
( <sup>6</sup> )	18,112	(NA)	(NA)	978	689	60,344	170,631	52,271	106,380	135,622	281,499	( <sup>6</sup> )	16,426	347
33,778	610	82	1018	67	27	3,371	8,872	2,900	5,890	6,886	14,533	26,576	886	3481
744,766	17,502	91	1060	911	662	56,973	161,759	49,371	100,490	128,736	266,966	465,973	15,540	3489
( <sup>6</sup> )	95,561	(NA)	(NA)	2,252	1,856	116,067	347,599	98,391	204,621	269,891	638,167	( <sup>6</sup> )	41,435	349
217,239	5,860	83	83	71	7	10,927	31,368	9,341	18,483	24,955	64,186	173,272	3,607	3491
40,029	714	98	98	26	16	3,754	10,117	3,004	6,035	7,437	19,434	29,216	580	3492
115,692	36,127	89	68	81	23	7,760	24,938	6,747	14,135	20,233	45,876	92,646	2,285	3493
699,523	26,090	92	86	364	199	49,235	151,514	40,908	85,895	115,790	285,451	463,752	18,263	3494
401,449	11,886	94	86	1,209	1,242	28,623	87,292	24,859	52,461	69,235	144,791	222,015	10,800	3495
36,893	1,369	91	100	19	4	3,866	9,415	3,475	6,886	7,205	16,342	26,997	1,477	3496
180,737	5,423	97	76	44	29	4,269	11,765	3,680	7,438	9,277	21,520	54,748	2,395	3497
237,815	8,088	90	60	438	336	7,633	21,190	6,377	13,288	15,759	39,967	73,205	2,028	3499
( <sup>6</sup> )	713,808	(NA)	(NA)	17,910	13,159	1,552,135	4,830,125	1,248,921	2,591,220	3,610,392	7,833,970	( <sup>6</sup> )	517,589	35
( <sup>6</sup> )	40,052	(NA)	(NA)	149	31	87,688	280,424	67,127	134,502	202,483	384,995	( <sup>6</sup> )	36,580	351
450,041	18,411	82	81	18	2	22,173	73,550	15,736	32,039	50,633	83,557	135,439	12,879	3511
891,027	21,640	81	78	131	29	65,515	206,874	51,391	102,643	151,850	301,438	619,998	23,701	3519
( <sup>6</sup> )	76,176	(NA)	(NA)	1,102	774	171,461	494,724	139,650	284,547	381,653	753,913	( <sup>6</sup> )	106,078	352
1,177,974	51,528	83	95	94	44	77,317	227,767	62,926	125,699	177,966	332,062	890,841	64,017	3521
1,095,685	24,648	89	92	1,008	730	94,144	266,957	76,724	158,848	203,687	421,851	889,037	42,061	3522
( <sup>6</sup> )	43,481	(NA)	(NA)	747	324	113,871	355,367	88,905	188,537	255,047	641,397	( <sup>6</sup> )	33,474	353
1,132,333	25,292	85	82	517	206	84,694	263,835	66,196	140,847	189,964	470,132	926,712	22,179	3531
513,383	18,188	88	91	230	118	29,177	91,532	22,709	47,510	65,083	171,265	288,853	11,295	3532

## GENERAL SUMMARY

Table 2A.—GENERAL STATISTICS FOR OPERATING MANUFACTURING ESTABLISHMENTS

(For explanation of column captions see Introduction.)

Code	Industry group and industry	1954									
		Primary products specialization ratio <sup>1</sup>	Coverage ratio <sup>2</sup>	Establishments (Number)	Proprietors and firm members (Number)	All employees		Production workers		Value added by manufacture, unadjusted <sup>4</sup> (\$1,000)	
						Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>3</sup>	Man-hours (1,000)		Wages (\$1,000)
354	Machinery, except electrical—Con.										
3541	Metalworking machinery.....	12	87	6,539	4,757	262,724	1,396,917	206,327	442,373	1,018,262	2,350,111
3542	Machine tools.....	14	13	639	347	80,959	432,290	62,106	133,247	302,682	788,211
3543	Metalworking machinery.....	15	85	501	197	99,468	293,799	44,277	92,342	202,459	513,277
3544	Special dies and tools.....	16	87	4,377	3,499	77,418	458,162	65,475	146,912	366,265	697,004
3545	Metalworking machinery attachments.....	17	74	1,022	714	44,877	212,665	34,467	69,871	146,854	351,607
355	Special-industry machinery, n.e.c.....	17	85	2,900	1,350	165,746	754,538	122,581	248,598	498,197	1,214,836
3551	Food-products machinery.....	18	86	672	302	33,205	152,518	23,717	49,009	98,570	256,240
3552	Textile machinery.....	19	93	535	252	36,595	145,253	28,093	55,733	98,668	217,560
3553	Woodworking machinery.....	20	81	249	128	11,973	53,821	8,839	17,771	35,224	101,721
3554	Paper-industries machinery.....	21	86	169	53	15,003	73,713	11,516	23,745	50,057	112,565
3555	Printing-trades machinery.....	22	90	358	164	21,960	110,679	16,416	33,027	74,515	173,805
3556	Special-industry machinery, n.e.c.....	23	73	917	451	47,007	218,553	33,997	69,310	141,160	352,943
356	General industrial machinery.....	25	81	2,604	1,019	223,917	1,046,942	156,896	317,117	652,776	1,859,054
3561	Pumps and compressors.....	22	78	496	183	60,324	272,632	41,269	82,859	168,613	498,011
3562	Elevators and escalators.....	27	89	131	48	10,257	49,518	7,017	14,164	31,766	102,106
3563	Conveyors.....	87	80	389	154	32,370	161,414	22,265	46,039	95,786	286,919
3564	Blowers and fans.....	23	76	214	87	18,125	80,850	13,724	27,349	54,033	151,272
3565	Industrial trucks and tractors.....	82	83	245	121	15,797	71,824	11,061	22,123	44,813	123,044
3566	Power-transmission equipment.....	29	86	471	176	49,580	231,636	37,903	76,209	160,037	393,984
3567	Industrial furnaces and ovens.....	34	34	167	65	8,415	42,351	5,050	10,403	20,975	81,399
3568	Mechanical stokers.....	74	61	25	11	1,118	5,138	766	1,453	2,820	8,976
3569	General industrial machinery, n.e.c.....	20	66	466	174	27,927	131,575	17,837	36,513	73,929	213,340
357	Office and store machines.....	80	96	409	121	101,294	455,643	81,631	160,582	336,831	773,881
3571	Computing and related machines.....	78	93	84	32	56,692	275,809	45,014	88,484	200,953	412,048
3572	Typewriters.....	91	97	18	2	18,435	67,399	16,699	32,589	60,075	131,306
3576	Scales and balances.....	90	96	78	30	5,381	21,276	4,074	7,636	14,163	44,047
3579	Office and store machines, n.e.c.....	79	90	229	57	20,785	91,159	15,843	31,871	61,639	186,479
358	Service and household machines.....	75	90	1,137	375	196,534	875,046	148,983	294,009	600,548	1,589,044
3581	Domestic laundry equipment.....	81	81	56	3	22,105	98,556	16,710	32,497	68,066	207,395
3582	Laundry and dry-cleaning machinery.....	83	93	104	44	6,543	28,630	4,659	9,509	18,243	54,218
3583	Sewing machines.....	91	94	82	46	12,414	56,552	9,443	19,142	40,697	76,602
3584	Vacuum cleaners.....	80	83	39	15	8,383	38,867	6,408	12,717	26,903	91,850
3585	Refrigeration machinery.....	(10)	(10)	586	189	128,283	567,118	98,921	194,527	396,982	1,006,193
3586	Measuring and dispensing pumps.....	69	91	32	9	8,367	38,531	5,893	11,790	23,658	63,160
3589	Service and household machines, n.e.c.....	85	76	238	84	10,437	46,791	6,944	13,825	25,997	89,624
359	Miscellaneous machinery parts.....	90	88	9,540	7,666	260,998	1,149,836	209,026	419,529	843,358	1,910,083
3591	Valves and fittings, except plbg.....	35	66	556	175	75,016	333,213	58,425	115,312	235,730	567,518
3592	Fabricated pipe and fittings.....	92	78	250	108	12,670	62,092	9,943	19,352	43,945	123,028
3593	Ball and roller bearings.....	98	92	102	17	49,720	214,088	39,974	78,233	159,813	335,101
3594	Industrial patterns and molds.....	73	73	1,800	1,725	19,864	98,265	16,900	35,230	77,840	152,049
3599	Machinery, n.e.c.....	26	36	6,832	5,641	103,727	442,177	83,782	171,400	326,031	732,387
36	Electrical machinery.....	(NA)	(NA)	5,758	1,936	959,126	3,950,994	722,443	1,422,339	2,645,588	7,403,134
361	Electrical industrial apparatus.....	88	91	2,030	644	340,000	1,494,109	250,072	493,743	984,284	2,795,415
3611	Wiring devices and supplies.....	75	86	395	152	43,195	168,474	34,882	68,944	122,166	340,911
3612	Carbon and graphite products.....	92	93	53	13	8,297	35,776	6,352	12,600	24,190	62,873
3613	Electrical measuring instruments.....	76	76	303	98	33,049	145,131	24,223	47,679	90,873	248,478
3614	Motors and generators.....	82	84	309	75	112,003	494,556	82,420	161,343	334,271	844,128
3615	Transformers.....	27	94	164	52	40,956	186,491	29,234	58,414	121,715	410,245
3616	Electrical control apparatus.....	89	91	452	118	79,314	361,398	56,183	111,372	228,245	700,477
3617	Electrical welding apparatus.....	90	92	119	59	9,186	45,719	5,484	11,400	26,427	78,645
3618	Electrical industrial apparatus, n.e.c.....	81	64	235	77	14,996	56,361	11,293	21,988	36,394	109,656
3621	Electrical appliances.....	76	74	365	154	48,582	201,827	38,661	75,562	145,587	424,031
3631	Insulation wire and cable.....	96	100	136	24	14,410	59,011	11,579	26,672	42,142	110,317
3641	Engine electrical equipment.....	85	87	169	60	46,349	200,279	37,219	74,147	146,769	339,251
3651	Electric lamps (bulbs).....	94	90	66	7	21,963	78,921	19,172	36,750	63,205	218,137
366	Communication equipment.....	93	96	2,268	715	445,817	1,752,211	333,364	653,130	1,152,459	3,214,097
3661	Radios and related products.....	(10)	(10)	1,753	593	293,998	1,130,378	220,867	435,056	742,732	2,130,207
3662	Electronic tubes.....	97	91	157	22	70,950	254,854	57,856	112,052	186,882	461,904
3663	Phonograph records.....	94	97	143	52	6,152	23,312	4,740	9,451	15,685	57,387
3664	Telephone and telegraph equipment.....	93	96	74	6	64,663	300,589	43,717	84,627	184,124	497,829
3665	Communication equipment, n.e.c.....	87	77	141	42	10,053	43,079	6,184	11,942	23,035	66,769
367	Electrical products, n.e.c.....	83	83	724	332	42,004	164,634	32,373	62,332	111,139	301,883
3671	Storage batteries.....	100	100	308	176	15,670	66,872	11,899	23,244	46,415	127,503
3692	Primary batteries.....	90	90	41	1	10,773	36,633	8,893	16,814	27,427	62,388
3693	Secondary batteries.....	81	81	130	40	7,054	32,583	4,601	9,036	17,688	51,518
3699	Electrical products, n.e.c.....	81	48	245	116	8,506	28,545	6,979	13,236	19,608	60,472

See footnotes at end of table.



## GENERAL SUMMARY

19

BY INDUSTRY GROUPS AND INDUSTRIES: 1954 AND 1947—Continued

For definitions of industries, see Appendix A—Industry Descriptions)

1954—Continued		1947												Code
Value of shipments	Capital expenditures, new <sup>2</sup>	Primary products, specialization ratio <sup>1</sup>	Coverage ratio <sup>2</sup>	Establishments	Proprietors and firm members	All employees		Production workers			Value added by manufacture, unadjusted <sup>4</sup>	Value of shipments	Capital expenditures, rev <sup>5</sup>	
						Number <sup>3</sup>	Payroll	Number <sup>3</sup>	Man-hours	Wages				
(\$1,000)	(\$1,000)			(Number)	(Number)		(\$1,000)		(1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	
( <sup>6</sup> )	141,823	(NA)	(NA)	4,296	3,780	220,902	754,164	178,395	373,816	563,716	1,148,035	( <sup>6</sup> )	51,342	354
1,146,932	37,683	77	36	315	139	70,001	233,997	54,435	112,562	165,003	343,198	493,853	13,836	3541
839,899	20,941	87	87	428	194	54,988	182,068	43,568	92,108	132,810	302,842	520,182	11,621	3542
931,542	66,600	(10)	(10)	3,553	3,447	95,913	338,099	80,392	169,146	265,903	501,995	661,329	25,885	(3544)
476,704	16,598													
( <sup>6</sup> )	45,722	(NA)	(NA)	3,067	3,107	207,321	652,983	165,543	357,894	483,226	1,053,544	( <sup>6</sup> )	61,313	355
404,261	7,571	89	82	623	360	36,927	113,823	28,894	62,263	82,246	191,758	327,681	12,323	3551
336,785	8,528	95	93	489	255	53,583	158,446	43,393	98,607	126,142	256,436	403,385	13,692	3552
167,160	4,329	78	77	294	173	16,233	50,488	15,018	27,971	36,383	90,841	152,881	4,403	3553
196,635	4,916	85	35	149	57	17,088	57,749	13,398	29,782	41,523	81,358	151,085	6,114	3554
248,719	6,634	95	94	327	192	24,880	84,750	19,684	42,995	62,919	138,915	199,362	4,860	3555
580,515	13,742	80	78	1,185	2,070	58,610	187,727	45,156	96,276	134,013	294,236	483,275	19,921	3559
( <sup>6</sup> )	81,903	(NA)	(NA)	2,193	1,100	218,983	696,072	165,368	344,803	476,430	1,199,366	( <sup>6</sup> )	56,556	356
890,873	18,015	81	85	448	206	56,142	172,857	41,413	88,465	119,763	291,658	571,213	14,631	3561
161,024	1,429	92	91	111	56	10,227	33,998	7,317	15,331	22,890	68,614	101,815	1,855	3562
479,224	10,519	78	80	253	136	24,578	84,084	18,073	37,865	55,024	143,515	248,407	5,703	3563
261,825	5,873	75	78	192	98	14,794	44,202	11,087	23,389	30,329	84,429	140,716	3,551	3564
245,110	7,088	84	84	196	121	13,926	41,908	10,603	22,360	29,530	81,517	162,151	5,463	3565
603,633	14,964	87	84	416	209	53,995	172,466	43,739	89,127	123,823	282,004	428,868	14,620	3566
160,132	1,902	86	74	109	36	6,362	21,784	4,058	8,449	11,908	33,992	75,488	1,330	3567
13,774	(13)	71	74	46	20	4,111	12,371	3,118	6,062	8,886	22,212	38,834	1,313	3568
370,499	21,883	78	75	422	218	34,848	112,402	25,960	53,755	74,277	186,325	320,249	8,090	3569
( <sup>6</sup> )	42,067	(NA)	(NA)	356	125	97,824	304,060	83,851	175,541	246,021	501,289	( <sup>6</sup> )	37,104	357
614,265	31,571	94	94	51	21	45,611	152,678	39,770	84,168	127,569	227,245	287,639	22,295	3571
173,439	2,789	90	107	25	6	26,604	73,177	23,838	50,520	63,509	121,385	153,924	8,862	3572
64,182	1,103	91	92	75	33	6,526	18,849	4,874	10,041	12,847	34,766	54,542	1,457	3576
276,437	6,603	89	90	202	65	19,083	59,356	15,369	30,812	42,096	117,893	177,819	4,490	3579
( <sup>6</sup> )	138,546	(NA)	(NA)	1,087	521	219,566	658,058	180,128	366,971	502,545	1,095,745	( <sup>6</sup> )	75,459	358
527,535	18,569	90	91	65	17	28,403	85,596	23,651	48,647	65,596	161,791	442,297	9,569	3581
88,065	1,062	94	94	127	67	9,093	27,435	6,888	14,790	19,015	54,347	94,361	1,694	3582
112,029	3,045	95	94	70	46	15,305	48,484	12,647	26,095	37,926	68,681	97,011	5,089	3583
157,907	2,094	84	83	34	17	14,880	44,797	12,232	24,344	35,266	91,047	160,184	4,526	3584
( <sup>6</sup> )	107,708	(10)	(10)	561	269	128,677	378,594	107,763	218,975	297,774	587,928	( <sup>6</sup> )	46,131	3585
116,543	2,002	76	98	52	15	12,083	36,972	8,884	17,090	24,174	66,223	125,052	2,436	3586
172,233	4,065	83	82	178	90	11,125	36,180	8,063	16,940	22,794	65,728	129,621	6,014	3589
( <sup>6</sup> )	104,033	(NA)	(NA)	4,913	3,397	214,519	634,273	179,954	364,789	499,271	1,055,686	( <sup>6</sup> )	59,683	359
959,012	24,869	82	90	452	187	79,713	237,921	65,522	132,012	183,763	392,090	633,771	20,877	3591
225,902	4,804	82	83	212	143	10,568	33,362	8,273	16,781	23,172	58,786	115,976	4,084	3592
537,151	27,828	94	96	94	15	52,174	153,233	45,075	91,323	125,711	259,060	365,584	21,872	3593
193,784	6,939	(NA)	(NA)	1,042	...	9,664	35,928	8,771	18,216	31,080	55,934	69,524	...	3594
1,107,706	39,588	92	77	3,113	3,052	62,400	173,729	52,313	106,457	135,545	289,816	439,877	12,850	3599
( <sup>6</sup> )	340,677	(NA)	(NA)	3,970	1,727	796,357	2,258,657	634,661	1,277,994	1,636,714	3,860,235	( <sup>6</sup> )	244,606	36
( <sup>6</sup> )	136,044	(NA)	(NA)	1,562	681	315,466	924,936	248,266	505,618	670,891	1,578,955	( <sup>6</sup> )	91,783	361
584,666	12,346	85	86	344	141	39,160	104,095	33,020	65,839	78,655	218,567	384,446	13,801	3611
111,010	6,492	95	95	44	13	7,818	22,028	6,426	12,856	16,504	40,218	68,745	1,641	3612
359,456	16,133	84	80	154	68	20,926	60,661	16,086	32,576	42,326	103,946	153,380	4,342	3613
1,389,078	38,310	81	92	253	88	125,300	368,461	100,966	205,777	279,175	564,218	995,640	36,666	3614
686,087	22,852	85	91	144	83	36,635	107,978	28,160	58,568	78,525	195,102	356,968	13,479	3615
1,096,715	31,478	86	87	321	155	67,461	204,081	49,690	101,747	137,747	358,431	579,148	17,300	3616
168,846	4,713	93	89	108	42	7,265	29,151	5,139	10,185	17,709	57,310	103,712	2,089	3617
183,250	3,717	77	53	194	91	10,901	28,481	8,779	18,070	20,250	41,163	74,356	2,465	3619
795,304	20,786	86	72	324	127	44,105	124,275	37,039	77,962	96,083	235,352	464,242	16,446	3621
323,011	7,961	96	103	133	86	20,259	55,839	17,338	38,358	43,742	99,661	290,241	6,071	3631
587,124	18,172	89	91	112	30	44,450	126,737	38,449	74,269	103,249	198,656	357,799	7,983	3641
326,343	8,288	94	100	62	12	23,842	57,914	21,550	42,090	48,891	120,344	203,248	11,318	3651
( <sup>6</sup> )	132,581	(NA)	(NA)	1,210	476	303,391	847,247	234,706	465,488	581,158	1,374,117	( <sup>6</sup> )	96,997	366
( <sup>6</sup> )	73,594	(10)	(10)	857	337	178,595	462,207	142,478	280,163	324,300	773,233	( <sup>6</sup> )	43,714	3661
709,183	32,836	94	95	51	6	27,703	65,420	22,571	43,662	46,704	94,040	124,518	5,602	3662
84,656	2,992	96	99	111	74	10,045	29,193	8,246	17,595	22,840	75,660	110,184	7,006	3663
797,109	22,144	94	99	90	20	76,072	258,567	53,630	108,687	167,488	384,417	689,182	39,280	3664
100,194	1,013	86	83	101	39	10,976	31,860	7,781	15,381	19,826	46,767	69,592	1,395	3669
( <sup>6</sup> )	16,844	(NA)	(NA)	567	315	44,844	121,709	37,313	74,209	92,700	253,150	( <sup>6</sup> )	14,008	369
341,374	10,512	1090	1099	246	182	16,570	49,734	13,632	29,541	38,257	114,246	297,654	7,910	3691
121,831	2,088	1090	1098	38	7	10,261	24,463	9,181	18,407	20,656	45,275	85,045	1,327	3692
79,943	1,913	94	93	116	62	7,678	23,217	5,621	11,762	15,354	38,635	59,518	2,271	3693
119,244	2,330	83	52	167	64	10,335	24,295	8,879	14,499	18,433	54,994	105,747	2,500	3699

## GENERAL SUMMARY

Table 2A.—GENERAL STATISTICS FOR OPERATING MANUFACTURING ESTABLISHMENTS

(For explanation of column captions see Introduction.)

Code	Industry group and industry	1954									
		Primary products specialization ratio <sup>1</sup>	Coverage ratio <sup>2</sup>	Establishments (Number)	Proprietors and firm members (Number)	All employees		Production workers			Value added by manufacture, unadjusted <sup>4</sup>
						Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>3</sup>	Man-hours (1,000)	Wages (\$1,000)	
371	Transportation equipment.....	NA	(NA)	5,348	2,976	1,704,572	8,295,773	1,327,078	2,714,603	6,003,250	13,925,983
3713	Motor vehicles and equipment.....	96	99	2,195	1,688	695,475	3,407,657	583,048	1,201,354	2,710,237	6,406,642
3715	Truck and bus bodies.....	96	99	564	396	18,689	76,050	15,175	30,652	55,433	112,834
3716	Truck trailers.....	82	93	130	45	16,381	72,904	13,023	26,197	52,352	113,469
3716	Motor vehicle trailers.....	99	93	275	143	11,131	43,874	9,491	18,592	33,031	68,784
3716	Motor vehicles and parts.....	(10)	(10)	1,226	504	649,274	3,214,827	545,359	1,125,912	2,569,419	6,111,554
372	Aircraft and parts.....	96	95	1,404	738	822,470	4,048,811	585,989	1,206,320	2,625,302	6,287,620
3722	Aircraft engines.....	89	99	72	...	457,618	2,277,320	320,445	654,781	1,441,632	3,348,876
3723	Aircraft propellers.....	93	91	234	62	167,383	819,181	117,277	243,536	522,850	1,435,443
3729	Aircraft equipment, n.e.c.....	84	87	16	7	16,523	78,058	11,647	22,179	49,135	108,415
3729	Aircraft equipment, n.e.c.....	86	66	1,082	669	180,946	874,252	136,619	285,823	611,683	1,394,886
373	Ships and boats.....	94	78	1,509	1,055	126,352	562,070	110,905	216,612	468,903	776,415
3731	Ship building and repairing.....	92	99	355	109	109,451	504,470	96,196	187,982	421,791	691,908
3732	Boat building and repairing.....	93	25	1,154	946	16,900	57,599	14,709	28,630	47,112	84,507
374	Railroad equipment.....	83	70	86	6	51,575	243,536	39,797	76,408	173,032	403,547
3741	Locomotives and parts.....	82	75	29	3	20,891	104,274	15,968	31,439	70,575	188,322
3742	Railroad and street cars.....	83	86	57	3	30,683	139,261	23,828	44,969	102,457	215,224
3751	Motorcycles and bicycles.....	86	92	46	14	7,061	28,060	5,979	11,121	21,639	41,819
3799	Transportation equipment, n.e.c.....	92	44	108	75	1,636	5,637	1,359	2,786	4,135	9,938
38	Instruments and related products....	(NA)	(NA)	3,142	1,635	272,586	1,200,322	195,597	391,403	759,459	2,128,706
3811	Scientific instruments.....	77	64	370	168	45,315	217,831	30,797	64,264	134,801	356,713
3821	Mechanical measuring instruments.....	87	79	614	275	69,422	302,624	48,229	97,903	189,887	542,602
3831	Optical instruments and lenses.....	82	77	205	99	12,658	58,178	9,447	18,555	38,251	86,380
384	Medical instruments and supplies.....	83	86	1,057	671	38,122	149,465	27,112	53,915	90,264	272,020
3841	Surgical and medical instruments.....	86	75	208	115	6,562	23,223	5,267	11,012	17,398	41,656
3842	Surgical appliances and supplies.....	85	85	652	444	24,457	98,035	16,737	32,536	54,890	179,209
3843	Dental equipment and supplies.....	95	96	197	112	7,103	28,206	5,107	10,366	17,974	51,154
3851	Ophthalmic goods.....	83	94	238	117	18,464	64,536	15,355	29,960	48,332	110,452
3861	Photographic equipment.....	90	95	449	208	59,099	288,497	41,063	81,066	177,117	561,238
387	Watches and clocks.....	82	90	209	97	29,504	119,189	23,590	45,738	80,804	199,300
3871	Watches and clocks.....	82	90	145	69	25,708	103,232	20,282	39,125	67,962	179,069
3872	Watches and clocks.....	86	85	64	28	3,795	15,957	3,308	6,612	12,841	20,231
39	Miscellaneous manufactures <sup>5</sup> .....	NA	(NA)	17,010	11,472	695,917	2,658,182	555,746	1,089,229	1,861,873	4,473,050
391	Jewelry and silverware.....	93	96	2,101	1,712	47,930	182,808	38,952	77,435	129,740	297,580
3911	Jewelry (precious metal).....	93	96	1,327	1,131	23,455	90,373	18,440	36,438	58,382	145,567
3912	Jewelry (base metal).....	92	91	234	141	5,371	18,911	4,542	9,281	13,414	31,369
3913	Lapidary.....	97	91	333	358	1,759	5,459	1,591	2,757	4,067	10,608
3914	Silverware and plated ware.....	91	97	207	82	17,345	68,064	14,379	28,957	53,876	110,034
393	Musical instruments and parts.....	96	96	242	119	15,407	61,219	13,230	26,329	48,242	93,072
3931	Pianos.....	88	100	27	1	5,759	24,079	4,945	9,508	18,596	32,436
3932	Organs.....	93	74	31	12	1,762	6,579	1,521	3,151	5,264	8,664
3933	Piano and organ parts.....	95	88	40	18	3,032	11,613	2,743	5,703	9,896	25,239
3939	Musical instruments, n.e.c.....	88	99	144	88	4,853	18,947	4,020	7,965	14,484	26,731
394	Toys and sporting goods.....	93	91	2,461	1,582	88,559	266,135	76,476	142,087	199,327	469,413
3941	Games and toys, n.e.c.....	95	89	886	488	38,242	113,208	30,789	60,813	83,227	208,484
3942	Children's vehicles.....	92	87	484	364	15,119	38,938	13,792	24,618	30,657	66,289
3943	Children's vehicles.....	76	90	60	20	6,278	24,308	5,454	10,553	19,354	36,499
3944	Sporting and athletic goods.....	90	86	1,031	710	28,919	89,681	24,439	46,101	66,087	158,153
395	Office supplies.....	...	...	832	556	28,218	109,046	20,662	41,874	64,550	195,080
3951	Pens and mechanical pencils.....	89	95	140	71	10,879	44,123	8,089	16,428	25,191	83,793
3952	Lead pencils and crayons.....	88	94	60	19	5,029	17,135	3,794	7,775	10,802	29,224
3953	Hand stamps and stencils.....	96	91	453	386	5,654	21,857	4,056	8,123	13,764	32,466
3954	Artistic material.....	84	76	95	55	1,913	6,585	1,467	2,875	4,033	11,836
3955	Carbon paper and inked ribbons.....	93	83	84	25	4,742	19,344	3,255	6,671	10,757	37,758
396	Costume jewelry and notions.....	91	94	2,364	1,827	66,675	200,398	57,282	108,747	146,050	316,497
3961	Costume jewelry.....	75	95	1,127	833	27,744	79,017	24,269	46,679	58,445	129,239
3962	Artificial flowers.....	97	96	471	413	7,306	17,299	6,690	12,009	13,446	28,952
3963	Buttons.....	92	89	409	388	8,471	23,235	7,430	14,123	17,483	36,679
3964	Needles, pins, and fasteners.....	82	91	357	193	23,152	80,846	18,893	35,935	56,674	121,625
3971	Plastics products, n.e.c.....	90	84	2,439	1,073	91,967	350,227	75,689	152,179	248,975	589,254

See footnotes at end of table.



## GENERAL SUMMARY

21

BY INDUSTRY GROUPS AND INDUSTRIES: 1954 AND 1947—Continued

For definitions of industries, see Appendix A—Industry Descriptions)

1954—Continued		1947											Code	
Value of shipments (\$1,000)	Capital expenditures, new <sup>1</sup> (\$1,000)	Primary products specialization ratio <sup>2</sup>	Coverage ratio <sup>2</sup>	Establishments (Number)	Proprietors and firm members (Number)	All employees		Production workers			Value added by manufacture, unadjusted <sup>4</sup> (\$1,000)	Value of shipments (\$1,000)		Capital expenditures, new <sup>5</sup> (\$1,000)
						Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>3</sup>	Man-hours (1,000)	Wages (\$1,000)				
(6)	924,646	(NA)	(NA)	3,703	2,534	1,174,498	3,694,932	981,103	1,961,398	2,920,813	5,841,722	(6)	354,974	37
(6)	730,837	(NA)	(NA)	1,894	1,225	693,763	2,182,323	593,201	1,173,977	1,778,433	3,790,866	(6)	288,053	371
232,514	3,445	79	90	603	546	26,646	78,386	22,876	47,209	62,664	127,429	242,297	8,762	3713
305,510	2,788	81	87	120	63	12,488	36,287	9,741	19,708	25,964	67,570	155,686	6,147	3715
230,836	2,404	98	99	220	182	9,562	27,778	8,529	17,412	22,892	50,943	138,006	3,424	3716
(6)	722,199	(10)	(10)	951	434	645,067	2,039,872	552,055	1,089,648	1,666,913	3,544,924	(6)	269,720	3717
(6)	142,206	(NA)	(NA)	332	201	219,611	703,702	162,596	329,452	476,297	954,575	(6)	27,867	372
6,267,147	59,446	(10)	(10)	58	4	146,625	462,906	110,332	221,796	316,795	605,983	(6)	7,901	3721
3,188,950	46,689	90	95	23	50,423	166,308	36,019	74,187	110,716	252,254	464,623	13,651	3722	
210,094	4,320	(10)	(10)	13	4	7,423	25,666	4,822	9,916	15,230	26,685	(6)	3,361	3723
2,342,536	31,750	82	38	202	170	15,140	48,822	11,423	23,553	33,556	69,653	105,327	2,954	3729
(6)	24,120	95	99	1,110	884	149,655	467,585	132,033	269,136	394,371	586,558	(6)	11,546	373
1,077,889	19,316	94	98	302	107	130,805	417,829	115,232	235,186	352,401	520,363	802,561	8,982	3731
154,369	4,804	83	88	808	777	18,850	49,756	16,801	33,950	41,970	66,195	114,374	2,564	3732
(6)	25,445	(NA)	(NA)	123	20	91,270	284,003	75,724	152,127	225,186	416,222	(6)	21,681	374
428,281	6,370	95	83	36	11	30,419	97,896	25,432	50,828	78,338	143,092	355,205	10,021	3741
495,767	19,074	91	(NA)	87	3	60,851	186,107	50,292	101,299	146,848	273,130	726,167	11,660	3742
95,649	1,476	87	3	76	34	15,615	45,661	13,659	28,245	37,732	72,838	163,670	4,600	3751
21,662	561	82	67	168	170	4,584	11,658	3,890	8,461	8,794	20,663	46,843	1,227	3799
(6)	94,008	(NA)	(NA)	2,605	1,661	244,872	706,055	194,303	389,940	502,168	1,140,499	(6)	56,000	38
580,916	8,615	81	82	215	122	18,419	56,015	13,526	27,228	37,738	75,922	117,312	4,489	3811
804,257	21,487	84	81	466	274	60,481	173,888	46,742	93,094	122,379	281,482	423,381	8,846	3821
117,649	4,555	93	75	115	90	8,478	24,737	6,682	13,611	17,965	34,090	45,344	1,520	3831
(6)	12,401	(NA)	(NA)	980	686	39,127	111,019	30,024	60,226	72,660	188,838	(6)	9,014	384
62,649	975	83	88	139	102	6,980	20,297	5,818	11,702	15,281	30,214	45,121	898	3841
338,449	9,991	81	91	628	458	23,073	65,097	17,074	34,277	40,075	115,699	256,604	5,730	3842
79,171	1,434	97	94	213	126	9,074	25,625	7,132	14,247	17,304	42,925	71,102	2,386	3843
157,939	5,042	86	97	184	96	22,562	57,112	19,847	39,645	46,507	87,205	121,153	3,722	3851
867,597	37,924	93	97	369	216	55,624	172,973	42,365	85,038	121,456	278,502	457,497	23,145	3861
(6)	3,981	(NA)	(NA)	276	177	40,181	110,311	35,117	71,098	83,463	194,460	(6)	5,264	387
330,043	3,511	97	98	194	119	34,623	93,331	30,237	60,899	70,372	169,474	341,199	4,743	3871
34,991	(13)	87	94	82	58	5,558	16,980	4,880	10,199	13,091	24,986	44,494	521	3872
(6)	176,036	(NA)	(NA)	14,148	11,849	463,390	1,205,212	396,002	811,288	917,572	2,066,259	(6)	106,960	39
(6)	7,339	(NA)	(NA)	2,032	1,855	55,169	168,485	46,129	99,125	127,506	304,363	(6)	10,185	391
258,147	1,836	92	95	1,344	1,264	25,566	76,462	20,610	42,877	54,222	140,478	248,185	2,674	3911
69,325	1,558	92	93	182	153	6,056	17,350	5,203	11,001	12,389	29,714	73,530	2,005	3912
33,564	(13)	98	98	270	323	1,699	5,524	1,525	3,068	4,532	10,860	30,269	148	3913
211,083	3,826	98	97	236	115	21,848	69,149	18,791	42,179	56,363	123,311	221,584	5,358	3914
(6)	1,922	(NA)	(NA)	260	192	16,889	46,808	14,814	31,269	38,198	71,356	(6)	2,445	393
64,723	513	94	100	27	3	6,978	20,573	6,170	13,204	16,948	31,097	55,086	1,138	3931
28,945	(13)	85	70	27	32	1,337	3,362	1,131	2,428	2,647	5,190	12,372	241	3932
35,474	542	95	82	37	3	3,209	8,402	2,928	6,223	7,185	12,947	19,865	565	3933
40,215	704	93	90	169	157	5,365	14,471	4,585	9,414	11,418	22,122	31,366	501	3939
(6)	17,599	(NA)	(NA)	2,197	1,861	75,476	173,811	67,214	132,441	138,333	294,644	(6)	16,829	394
382,665	8,358	92	90	837	701	27,140	60,554	24,174	47,093	47,403	105,414	181,939	6,811	3941
142,732	2,247	89	98	377	372	9,797	21,847	8,886	17,386	17,739	37,577	69,786	1,107	3942
76,650	(13)	81	79	120	62	8,783	24,735	7,773	15,972	19,423	44,204	85,831	1,560	3943
293,735	5,662	94	90	863	726	29,756	66,675	26,381	51,990	53,768	107,449	202,303	7,351	3949
(6)	7,399	(NA)	(NA)	786	580	31,429	81,657	24,634	50,264	55,250	162,599	(6)	7,099	395
128,540	3,054	93	95	184	113	15,553	40,606	12,527	24,705	28,207	89,897	147,368	3,865	3951
54,892	1,771	91	90	50	22	6,279	14,726	5,190	10,726	10,409	23,633	45,037	1,105	3952
47,627	1,060	89	89	425	368	4,556	12,483	3,362	7,150	8,426	19,486	27,459	924	3953
23,599	(13)	79	74	60	45	1,360	3,220	997	2,006	1,944	5,968	13,298	265	3954
81,190	1,120	1090	1090	67	32	3,681	10,622	2,558	5,677	6,264	23,615	48,636	940	3955
(6)	10,165	(NA)	(NA)	2,035	1,974	66,024	153,803	57,732	117,519	118,765	263,024	(6)	10,370	396
239,409	3,621	90	91	859	805	25,371	59,487	22,266	46,532	45,979	107,224	170,294	3,146	3961
49,990	(13)	97	99	445	525	7,130	13,448	6,569	12,348	10,713	23,813	39,463	515	3962
64,769	1,139	93	94	454	457	10,564	22,077	9,556	19,330	17,745	34,695	59,533	1,131	3963
203,122	4,981	91	89	277	187	22,959	58,791	19,341	39,309	44,328	97,292	147,221	5,578	3964
1,192,895	45,290	91	89	1,362	805	58,400	156,369	49,502	102,331	119,455	258,917	472,957	27,042	3971

## GENERAL SUMMARY

Table 2A.—GENERAL STATISTICS FOR OPERATING MANUFACTURING ESTABLISHMENTS

(For explanation of column captions see Introduction.)

Industry group and industry	1954									
	Primary product specialization ratio <sup>1</sup>	Coverage ratio <sup>2</sup>	Establishments (Number)	Proprietors and firm members (Number)	All employees		Production workers			Value added by manufacture, unadjusted <sup>4</sup> (\$1,000)
					Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>3</sup>	Man.-hours (1,000)	Wages (\$1,000)	
399 } Miscellaneous manufactures <sup>5</sup> .....	(NA)	(NA)	6,571	4,603	357,153	1,488,343	273,449	540,574	1,024,984	2,512,162
3981 } Brooms and brushes.....	61	92	698	566	16,826	54,789	13,534	25,595	36,294	91,737
3982 } Cork products.....	81	69	35	14	2,117	8,097	1,771	3,507	6,233	19,843
3983 } Matches.....	100	92	20	1	6,191	21,308	5,147	10,290	15,945	35,391
3984 } Candles.....	87	93	89	56	3,010	9,420	2,289	4,716	6,112	16,486
3985 } Fireworks and pyrotechnics.....	89	89	78	32	2,637	7,443	2,334	4,398	5,552	11,931
3986 } Jewelry and instrument cases.....	85	92	166	106	8,003	25,050	6,437	12,438	16,979	37,559
3987 } Lamp shades.....	93	96	325	287	5,025	12,542	4,524	8,394	9,957	21,492
3988 } Rifle and gun goods.....	97	97	563	346	16,729	59,233	13,302	26,499	40,001	92,024
3991 } Beauty and barber-shop equipment.....	92	71	67	23	1,719	6,936	1,419	3,016	4,741	11,963
3992 } Furs, dressed and dyed.....	101	101	160	103	3,459	16,420	3,005	4,822	13,108	23,901
3993 } Signs and advertising displays.....	93	92	2,620	2,088	33,581	135,578	26,205	51,681	90,602	216,666
3994 } Hairwork.....	96	97	131	110	1,708	4,440	1,463	2,583	3,252	7,296
3995 } Umbrellas, parasols, and canes.....	95	92	140	109	3,210	9,364	2,873	5,150	6,965	14,917
3996 } Tobacco pipes.....	99	99	43	22	1,521	4,768	1,337	2,501	3,561	7,260
3997 } Soda-fountain and bar equipment.....	83	74	50	21	1,445	6,422	1,129	2,231	4,487	10,808
3999 } Miscellaneous products, n.e.c.....	84	83	893	598	20,765	73,740	16,336	31,582	48,010	123,805
19-- } Grand total of all industries.....	(NA)	(NA)	4,733	121	229,191	1,032,781	1,124,241	341,151	713,169	1,769,065

Note: Detailed figures may not add to totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies.

NA Not available.

<sup>1</sup>The "Primary product specialization ratio" measures the extent to which plants classified in the industry "specialize" in making products classified as primary to the industry. That is, value of shipments of primary products of plants in the industry is expressed as a ratio of the total shipments of all products made by these establishments, (excluding "miscellaneous receipts," such as receipts for contract and commission work on materials owned by others, scrap and salable refuse, repair, etc.).

<sup>2</sup>The "Coverage ratio" measures the extent to which all shipments of primary products of an industry are made by plants classified in the industry. That is, value of shipments of the primary products made by plants classified in the industry is expressed as a ratio of the total shipments of primary products made by all producers, both in and out of the specified industry.

<sup>3</sup>For most industries in 1954 the data for "All employees" and "Production workers" are based on reported data for the payroll periods ended nearest the 15th of March, May, August, and November. For 1947 and in 1954 for industries of a seasonal type an average based on the mid-month employment for 12 months was used.

<sup>4</sup>Unadjusted value added by manufacture represents value of products shipped less cost of materials, supplies, fuel, electric energy and contract work.

<sup>5</sup>Does not include expenditures for plants under construction and not yet in operation. Figures for such capital expenditures will be shown in other tables.

<sup>6</sup>The total value of shipments figures for industry groups (2- and 3- digit) and a few individual industries (4-digit) have not been published due to the extensive duplication arising from shipments from one establishment to another in the same industry classification. (See Introduction.)

<sup>7</sup>The 1954 and 1947 "all industries" totals are not strictly comparable because of differences in scope between the two years in Major groups 20 and 24 (see footnote 8).

<sup>8</sup>Comparable data are not available due to differences in the coverage between 1947 and 1954. The 1947 Census figures exclude establishments in S.I.C. Industry 2411, Logging Camps and Contractors, which are included in the scope of the 1954 Census; the 1947 Census also excludes plants processing and distributing fluid milk which in 1954 were classified in Industry Group 202, Dairy Products. In the special comparative table below, data for these industries have been subtracted from the appropriate totals:

Industry group		Estab- lish- ments	Pro- pri- etors and firm mem- bers	All employees		Production workers			Value added by manu- facture, unad- justed	Capital expen- ditures, new
				Number	Payroll	Number	Man-hours	wages		
		Number	Number		(\$1,000)		(1,000)	(\$1,000)	(\$1,000)	(\$1,000)
1954										
20	Food and kindred products except subgroup 202, Dairy products.....	30,871	22,056	1,363,773	5,115,209	985,043	1,983,675	3,251,908	11,143,480	625,927
24	Lumber and wood products except Industry 2411, Logging camps and contractors.....	28,619	28,041	570,426	1,722,898	513,749	991,380	1,422,564	2,798,481	168,729
1947										
20	Food and kindred products except subgroup 202, Dairy products.....	34,507	28,260	1,349,100	3,559,879	1,030,356	2,208,047	2,412,296	8,427,804	737,352
24	Lumber and wood products except Industry 2411, Logging camps and contractors.....	26,312	29,272	641,799	1,351,957	601,412	1,255,102	1,191,052	2,520,402	171,574

See tables in the Dairy Products section of the Industry Volume for additional details.

## GENERAL SUMMARY

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BY INDUSTRY GROUPS AND INDUSTRIES: 1954 AND 1947—Continued

For definitions of industries, see Appendix A—Industry Descriptions

1954—Continued		1947												Code
Value of shipments	Capital expenditures, new <sup>2</sup>	Primary products specialization ratio <sup>1</sup>	Coverage ratio <sup>2</sup>	Establishments (Number)	Proprietors and firm members (Number)	All employees		Production workers			Value added by manufacture, unadjusted <sup>3</sup>	Value of shipments	Capital expenditures, new <sup>2</sup>	
						Number <sup>3</sup>	Payroll	Number <sup>3</sup>	Man-hours	Wages				
(\$1,000)	(\$1,000)					(\$1,000)		(1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)		
( <sup>6</sup> )	86,319	(NA)	(NA)	5,476	4,582	160,003	424,279	135,977	278,339	320,065	711,356	( <sup>6</sup> )	32,990	398
195,445	3,074	94	97	706	659	18,551	44,875	15,543	30,617	31,162	87,288	179,811	4,715	3981
39,910	1,486	88	75	36	2	2,485	6,802	2,150	4,562	5,427	11,657	30,077	986	3982
60,633	846	100	100	29	1	7,350	16,422	6,612	13,724	13,406	31,302	56,657	2,748	3983
29,288	822	91	87	54	40	2,405	5,596	1,933	3,972	3,704	8,911	17,906	1,299	3984
21,715	( <sup>13</sup> )	97	96	73	24	3,251	6,694	2,982	5,954	5,706	8,626	15,219	649	3985
64,502	781	85	80	165	140	7,212	15,848	6,525	13,252	12,737	26,335	43,005	764	3986
38,677	( <sup>13</sup> )	93	93	291	288	4,488	8,473	4,100	8,275	7,043	14,668	27,499	327	3987
166,141	2,846	90	97	568	355	22,375	60,002	18,242	38,987	42,388	92,395	188,829	3,441	3988
20,520	( <sup>13</sup> )	77	68	84	25	3,199	9,009	2,651	5,622	6,254	14,386	25,504	263	3991
29,060	( <sup>13</sup> )	( <sup>10</sup> )	( <sup>10</sup> )	176	126	6,904	25,766	6,197	12,814	21,866	43,277	53,089	503	3992
353,340	6,967	95	88	1,982	1,783	28,489	81,190	23,987	49,051	61,339	128,969	204,731	5,540	3993
13,701	( <sup>13</sup> )	95	99	87	90	1,170	2,436	1,046	2,039	2,040	4,380	8,151	51	3994
31,613	( <sup>13</sup> )	97	100	164	179	3,585	8,360	3,267	6,628	6,490	15,421	34,348	526	3995
10,542	( <sup>13</sup> )	(D)	(D)	76	47	3,140	8,810	2,745	5,552	6,302	13,738	19,325	110	3996
19,918	( <sup>13</sup> )	83	76	67	45	2,739	8,488	2,231	4,822	6,524	16,254	31,504	770	3997
234,939	6,761	89	92	876	753	22,727	58,000	18,856	37,792	41,731	102,427	199,476	3,887	3999
( <sup>6</sup> )	61,073	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	19--

<sup>9</sup>Includes privately owned and/or operated establishments classified in Industry Group 19, "Ordnance and Accessories." Government owned and operated establishments are excluded from the annual survey and the census data.

<sup>10</sup>For further qualifications of the ratio for this industry see Appendix A—Industry Descriptions.

<sup>11</sup>Includes data for Industry 2012, Custom Slaughterering.

<sup>12</sup>Includes data for Industry 2014, Sausage Casings.

<sup>13</sup>Less than \$500 thousand.

<sup>14</sup>Includes data for Industry 2225, Yarn Mills, silk system.

<sup>15</sup>Data for 1954 include reports for establishments which are owned by the government but privately operated and exclude data for T.V.A. The 1947 figures exclude data for government owned but privately operated establishments but include data for T.V.A.



## GENERAL SUMMARY

Table 2B.—UNADJUSTED AND ADJUSTED VALUE ADDED FOR INDUSTRIES AND INDUSTRY GROUPS: 1954

In thousands of dollars. For explanation of column captions see Introduction.)

Code	Industry and industry group	Value added by manufacture, unadjusted <sup>1</sup>	Value added by merchandising (resales)	Net change in finished products and work-in- process inventories between the beginning and end of 1954 <sup>2</sup>	Adjusted value added <sup>1</sup>
	All industries, total.....	116,912,526	1,760,131	-1,222,112	117,450,545
20	Food and kindred products.....	13,400,218	356,788	12,426	13,769,432
21	Tobacco manufactures.....	988,001	2,462	13,593	1,004,056
22	Textile mill products.....	4,748,586	36,574	-75,910	4,709,250
23	Apparel and related products.....	5,147,371	67,577	-49,401	5,165,547
24	Lumber and wood products.....	3,188,409	64,727	-11,530	3,241,606
25	Furniture and fixtures.....	1,966,410	27,089	4,007	1,997,506
26	Pulp, paper and products.....	4,580,944	24,847	24,362	4,630,153
27	Printing and publishing.....	6,264,558	147,592	( <sup>3</sup> )	36,412,150
28	Chemicals and products.....	9,443,629	178,661	-11,110	9,611,180
29	Petroleum and coal products.....	2,582,613	37,876	1,510	2,621,999
30	Rubber Products.....	1,903,702	56,230	-5,531	1,954,401
31	Leather and leather goods.....	1,637,417	11,593	-8,206	1,640,804
32	Stone, clay and glass products.....	3,821,659	50,436	-5,866	3,866,229
33	Primary metal industries.....	9,372,910	29,149	-11,624	9,390,435
34	Fabricated metal products.....	7,596,275	136,792	-79,676	7,653,391
35	Machinery, except electrical.....	12,338,923	218,330	-374,662	12,182,591
36	Electrical machinery.....	7,403,134	119,768	-223,295	7,299,607
37	Transportation equipment.....	13,925,983	80,281	-230,319	13,775,945
38	Instruments and related products.....	2,128,706	50,072	-47,165	2,131,613
39	Miscellaneous manufactures <sup>4</sup> .....	4,473,050	63,287	-143,714	4,392,623
20	Food and kindred products.....	13,400,218	356,788	12,426	13,769,432
201	Meat products.....	1,930,974	36,172	-28,839	1,938,307
2011	Meat packing plants.....	1,394,486	22,497	-19,808	1,397,175
2013	Prepared meats.....	330,312	8,405	-4,966	333,751
2015	Poultry dressing plants.....	206,175	5,270	-4,065	207,380
202	Dairy products.....	2,256,738	63,275	-17,467	2,302,546
2021	Creamery butter.....	136,953	9,693	-4,247	142,399
2022	Natural cheese.....	88,716	2,476	624	91,816
2023	Concentrated milks.....	170,566	1,708	-6,979	165,295
2024	Ice cream and ices.....	327,898	8,518	-986	335,430
2025	Special dairy products.....	56,965	1,165	-5,115	53,015
2026	Fluid milk only.....	98,940	3,770	496	103,206
2027	Fluid milk and other products.....	1,376,698	35,945	-1,260	1,411,383
203	Canned and frozen foods.....	1,301,195	22,653	48,750	1,372,598
2031	Canned seafood.....	70,387	3,050	20,479	93,916
2032	Cured fish.....	10,512	802	59	11,373
2033	Canned fruits and vegetables.....	830,019	11,014	9,081	850,114
2034	Dehydrated fruits and vegetables.....	55,176	166	697	56,039
2035	Pickles and sauces.....	140,925	4,373	-2,242	143,056
2036	Packaged seafood.....	45,657	1,607	1,465	48,729
2037	Frozen fruits and vegetables.....	148,517	1,641	19,211	169,369
204	Grain mill products.....	1,217,055	65,736	5,414	1,288,205
2041	Flour and meal.....	315,143	15,088	403	330,634
2042	Prepared animal feeds.....	584,135	42,696	3,132	629,963
2043	Cereal breakfast foods.....	172,283	5,439	-551	177,171
2044	Rice milling.....	42,359	127	1,818	44,304
2045	Flour mixes.....	103,134	2,386	612	106,132
205	Bakery products.....	1,977,188	78,762	996	2,056,946
2051	Bread and related products.....	1,568,933	67,799	81	1,636,813
2052	Biscuit and crackers.....	408,254	10,963	915	420,132
206	Sugar.....	250,759	1,275	12,727	264,761
2061	Sow cane sugar.....	15,431	8	2,201	17,640
2062	Cane-sugar refining.....	138,971	119	-5,710	133,380
2063	Beet sugar.....	96,357	1,148	16,236	113,741
207	Candy and related products.....	596,211	7,230	6,412	609,853
2071	Confectionery products.....	422,314	7,165	2,404	431,883
2072	Chocolate and cocoa products.....	81,745	33	3,963	85,741
2073	Chewing gum.....	92,150	32	45	92,227
208	Beverages.....	2,237,428	30,332	-21,183	2,246,577
2081	Bottled soft drinks.....	635,045	14,681	1,436	651,162
2082	Beer and ale.....	1,100,741	3,923	1,639	1,106,303
2083	Malt.....	48,149	633	1,530	50,312
2084	Wines and brandy.....	96,749	1,933	1,712	100,394
2085	Distilled liquor, except brandy.....	356,741	9,162	-27,500	338,403
209	Miscellaneous foods.....	1,632,667	51,353	5,616	1,689,636
2091	Leavening compounds.....	45,350	321	-49	45,622
2092	Shortening and cooking oils.....	175,988	1,487	6,344	183,819
2093	Margarine.....	42,467	894	624	43,985
2094	Corn wet milling.....	176,696	1,046	980	178,722
2095	Flavorings.....	219,445	1,938	373	221,756
2097	Manufactured ice.....	115,469	8,558	-194	123,833
2098	Macaroni and spaghetti.....	50,951	1,308	309	52,568
2099	Food preparations, nec.....	806,298	35,801	-2,771	839,328

See footnotes at end of table.

## GENERAL SUMMARY

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Table 2B.—UNADJUSTED AND ADJUSTED VALUE ADDED FOR INDUSTRIES AND INDUSTRY GROUPS: 1954—Continued

(In thousands of dollars. For explanation of column captions see Introduction)

Code	Industry and industry group	Value added by manufacture, unadjusted <sup>1</sup>	Value added by merchandising (resales)	Net change in finished products and work-in- process inventories between the beginning and end of 1954 <sup>2</sup>	Adjusted value added <sup>1</sup>
21	Tobacco manufactures.....	988,001	2,462	13,593	1,004,056
2111	Cigarettes.....	677,252	141	-800	676,593
2121	Cigars.....	165,312	181	2,873	168,366
2131	Cheewing and smoking tobacco.....	80,057	265	-703	79,619
2141	Tobacco stemming and redrying.....	65,378	1,875	12,223	79,476
22	Textile mill products.....	4,748,586	36,574	-75,910	4,709,250
221	Woolen and worsted manufactures.....	452,906	800	-17,051	436,655
2211	Scouring and combing plants.....	35,084	343	-1,904	33,523
2212	Yarn mills, wool, except carpet.....	78,971	49	-6,275	72,745
2213	Woolen and worsted fabrics.....	315,706	163	-9,614	306,255
2216	Finishing wool textiles.....	23,143	245	742	24,130
222	Yarn and thread mills.....	415,492	1,092	-11,316	405,268
2222	Yarn throwing mills.....	53,964	355	79	54,398
2223	Thread mills.....	62,694	638	-926	62,406
2224	Yarn mills, cotton system.....	298,833	99	-10,469	288,463
223	Broad-woven fabrics.....	1,550,272	4,474	-10,817	1,543,929
2233	Cotton broad-woven fabrics.....	1,127,507	2,404	5,454	1,135,365
2234	Synthetic broad-woven fabrics.....	422,765	2,070	-16,271	408,564
2241	Narrow fabric mills.....	121,547	2,870	-404	124,013
225	Knitting mills.....	938,138	18,364	-16,686	939,816
2251	Full-fashioned hosiery mills.....	266,993	5,362	-1,576	270,779
2252	Seamless hosiery mills.....	202,477	1,591	-912	203,156
2253	Knit outerwear mills.....	231,702	9,989	-5,196	236,495
2254	Knit underwear mills.....	110,591	934	-6,786	104,739
2255	Knit glove mills.....	6,192	30	-422	5,800
2256	Knit fabric mills.....	113,122	390	-1,891	111,621
2259	Knitting mills, nec.....	7,059	68	99	7,226
2261	Finishing textiles, except wool.....	464,165	545	-2,345	462,365
227	Carpets and rugs.....	360,856	3,190	-11,634	352,412
2271	Wool carpets and rugs.....	191,409	2,046	-12,496	180,959
2273	Carpets and rugs, except wool.....	67,110	159	919	68,188
2274	Hard-surface floor coverings.....	102,337	985	-57	103,265
228	Hats (except cloth and millinery).....	61,886	880	-2,325	60,441
2281	Fur-felt hats and hat bodies.....	39,160	522	-1,454	38,228
2282	Wool-felt hats and hat bodies.....	7,250	58	-647	6,661
2283	Straw hats.....	11,573	274	-222	11,625
2284	Hatter's fur.....	3,902	26	-1	3,927
229	Miscellaneous textile goods.....	383,320	4,359	-3,332	384,347
2291	Felt goods, nec.....	41,656	545	409	42,610
2292	Lace goods.....	37,734	258	-421	37,571
2293	Padding and upholstery filling.....	61,499	1,009	125	62,633
2294	Processed textile waste.....	30,723	1,435	27	32,185
2295	Coated fabric, except rubberized.....	80,294	142	-568	79,868
2298	Cordage and twine.....	77,298	185	-3,972	73,511
2299	Textile goods, nec.....	54,115	785	1,068	55,968
23	Apparel and related products.....	5,147,371	67,577	-49,401	5,165,547
231	Men's and boys' suits and coats.....	548,168	5,345	-14,902	538,611
2311	Men's and boys' suits and coats.....	536,880	5,303	-14,949	527,234
2312	Suit and coat findings.....	11,288	42	47	11,377
232	Men's and boys' furnishings.....	1,008,357	19,317	-21,308	1,006,366
2321	Men's dress shirts and nightwear.....	372,941	6,568	-9,380	370,129
2322	Men's and boys' underwear.....	29,952	1,172	329	31,453
2323	Men's and boys' neckwear.....	48,237	1,990	-876	49,351
2325	Men's and boys' cloth hats.....	33,030	720	-521	33,229
2326	Hat and cap materials.....	4,579	117	...	4,696
2327	Separate trousers.....	181,309	899	-1,824	180,384
2328	Work shirts.....	16,652	1	-55	16,598
2329	Men's and boys' clothing, nec.....	321,655	7,850	-8,981	320,524
233	Women's and misses' outerwear.....	1,686,067	14,436	-4,127	1,696,376
2331	Blouses.....	165,352	669	-108	165,913
2333	Dresses, unit price.....	661,292	1,426	-530	662,188
2334	Dresses, dozen price.....	205,070	4,148	-1,548	207,670
2337	Women's suits, coats, and skirts.....	529,623	2,573	-622	531,574
2338	Women's neckwear and scarfs.....	9,676	2,759	-412	12,023
2339	Women's outerwear, nec.....	115,046	2,861	-906	117,001
234	Women's and children's undergarments.....	513,256	2,071	-5,546	509,781
2341	Women's and children's underwear.....	298,385	1,509	-4,725	295,169
2342	Corsets and allied garments.....	214,870	562	-821	214,611
2351	Millinery.....	101,180	693	-255	101,618

See footnotes at end of table.

## GENERAL SUMMARY

Table 2B.—UNADJUSTED AND ADJUSTED VALUE ADDED FOR INDUSTRIES AND INDUSTRY GROUPS: 1954—Continued

For explanation of symbols, see introductory text on page 1.

Code	Industry and industry group	Value added by manufacture, unadjusted <sup>1</sup>	Value added by merchandising (resales)	Net change in finished products and work-in- process inventories between the beginning and end of 1954 <sup>2</sup>	Adjusted value added <sup>3</sup>
Apparel and related products—Con.					
236	Children's outerwear.....	322,052	1,434	-3,005	320,481
2361	Children's dresses.....	127,587	143	43	127,773
2363	Children's coats.....	72,601	172	-770	72,003
2369	Children's outerwear, nec.....	121,863	1,119	-2,278	120,704
2371	Fur goods.....	74,755	1,952	-864	75,843
238	Miscellaneous apparel.....	266,605	5,694	-3,452	268,847
2381	Fabric dress gloves.....	17,271	237	-409	17,099
2382	Fabric work gloves.....	29,561	593	192	30,346
2383	Suspenders and garters.....	4,194	31	-76	4,149
2384	Robes and dressing gowns.....	44,027	94	-892	43,229
2385	Waterproof outer garments.....	59,342	511	-912	58,941
2386	Leather and sheep-lined clothing.....	24,248	103	-781	23,570
2387	Belts.....	58,010	2,389	-268	60,131
2388	Handkerchiefs.....	14,366	726	-95	14,997
2389	Apparel, nec.....	15,582	1,010	-210	16,382
239	Fabricated textiles, nec.....	626,928	16,635	4,058	647,621
2391	Curtains and draperies.....	61,392	1,428	996	63,816
2392	House furnishings, nec.....	173,910	3,909	717	178,536
2393	Textile bags.....	51,641	2,728	745	55,114
2394	Canvas products.....	61,442	3,930	-208	65,164
2395	Tucking, pleating and stitching.....	27,904	30	18	27,952
2396	Trimings and art goods.....	87,687	1,628	1,941	91,256
2397	Schiffli-machine embroideries.....	34,396	572	-98	34,870
2398	Embroideries, except Schiffli.....	41,280	487	-1	41,766
2399	Fabricated textile products, nec.....	87,272	1,923	-52	89,143
24	Lumber and wood products.....	3,188,409	64,727	-11,530	3,241,606
2411	Logging camps and contractors.....	389,928	4,180	-1,342	392,766
242	Lumber and basic products.....	1,595,384	22,228	-7,202	1,610,410
2421	Sawmills and planing mills.....	1,502,911	21,450	-6,611	1,517,750
2422	Veneer mills.....	59,250	312	-491	59,071
2423	Shingle mills.....	15,451	385	422	16,258
2424	Cooperage stock mills.....	10,843	39	-568	10,314
2425	Excelsior mills.....	6,928	42	45	7,015
243	Millwork and related products.....	709,768	30,611	3,264	743,643
2431	Millwork plants.....	374,518	28,202	5,751	408,471
2432	Plywood plants.....	246,250	813	-2,421	244,642
2433	Prefabricated wood products.....	88,999	1,596	-66	90,529
244	Wooden containers.....	215,297	4,559	-5,107	214,749
2441	Fruit and vegetable baskets.....	18,961	126	237	19,324
2442	Battan and willow ware.....	5,329	249	-62	5,516
2443	Cigar boxes.....	3,988	3	40	4,031
2444	Wooden boxes.....	165,361	4,023	-392	168,992
2445	Cooperage.....	21,656	158	-4,930	16,884
249	Miscellaneous wood products.....	278,031	3,149	-1,143	280,037
2491	Wood preserving.....	69,257	293	-1,019	68,531
2492	Lasts and related products.....	8,210	50	33	8,293
2493	Mirror and picture frames.....	27,601	471	-162	27,910
2499	Wood products, nec.....	172,961	2,335	5	175,301
25	Furniture and fixtures.....	1,966,410	27,089	4,007	1,997,506
251	Household furniture.....	1,320,743	14,091	1,124	1,335,958
2511	Wood house furniture not upholstered....	592,714	8,881	496	602,091
2512	Upholstered household furniture.....	313,034	1,551	252	314,837
2514	Metal household furniture.....	190,816	1,374	788	192,978
2515	Mattresses and bedsprings.....	216,362	2,245	-452	218,155
2519	Household furniture, nec.....	7,815	40	40	7,895
252	Office furniture.....	154,566	2,672	-39	157,199
2521	Wood office furniture.....	28,757	191	111	29,059
2522	Metal office furniture.....	125,808	2,481	-150	128,139
253	Public and professional furniture.....	125,674	1,561	1,343	128,578
2531	Public-building furniture.....	87,446	968	1,754	90,168
2532	Professional furniture.....	38,228	593	-411	38,410
2541	Partitions and fixtures.....	230,712	3,600	1,934	236,246
256	Screens, shades, and blinds.....	109,931	4,473	-786	113,618
2561	Window and door screens.....	32,630	436	-367	32,699
2562	Window shades.....	29,604	2,045	-273	31,376
2563	Venetian blinds.....	47,696	1,992	-146	49,542
259	Furniture and fixtures, nec.....	24,782	692	431	25,905
2591	Restaurant furniture.....	18,790	674	365	19,829
2599	Furniture and fixtures, nec.....	5,992	18	66	6,076

See footnotes at end of table.



## GENERAL SUMMARY

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Table 2B.—UNADJUSTED AND ADJUSTED VALUE ADDED FOR INDUSTRIES AND INDUSTRY GROUPS: 1954—Continued  
(In thousands of dollars. For explanation of column captions see Introduction)

Code	Industry and industry group	Value added by manufacture, unadjusted <sup>1</sup>	Value added by merchandising (resales)	Net change in finished products and work-in- process inventories between the beginning and end of 1954 <sup>2</sup>	Adjusted value added <sup>1</sup>
26	Pulp, paper and products.....	4,580,944	24,847	24,362	4,630,153
261	Pulp, paper and board.....	2,289,349	3,767	11,669	2,304,785
2611	Pulp mills.....	704,274	118	2,674	707,066
2612	Paper and paperboard mills.....	1,429,659	567	8,893	1,439,119
2613	Building paper and board mills.....	155,415	3,082	102	158,599
2641	Paper coating and glazing.....	282,067	1,588	1,314	284,969
2651	Envelopes.....	101,430	841	527	102,798
2661	Paper bags.....	211,688	2,118	2,284	216,090
267	Paperboard containers.....	969,675	4,477	2,608	976,760
2671	Paperboard boxes.....	895,298	4,312	2,751	902,361
2674	Fiber cans, tubes, drums, etc.....	74,377	165	-143	74,399
269	Pulp, paper and board products, nec.....	726,732	12,056	5,960	744,748
2691	Die-cut paper and board.....	97,964	1,498	252	99,714
2693	Wallpaper.....	19,005	56	340	19,401
2694	Pulp goods, pressed and molded.....	25,439	20	553	26,012
2699	Paper and board products, nec.....	584,323	10,482	4,815	599,620
27	Printing and publishing.....	6,264,558	147,592		6,412,150
2711	Newspapers.....	2,144,223	2,422		2,146,645
2721	Periodicals.....	795,543	10,173		805,716
273	Books.....	539,395	12,797		552,191
2731	Books; publishing and printing.....	394,702	12,502		407,204
2732	Book printing.....	144,692	295		144,987
2741	Miscellaneous publishing.....	149,310	1,195		150,505
2751	Commercial printing.....	1,357,820	103,953		1,461,773
2761	Lithographing.....	578,883	9,645	( <sup>3</sup> )	588,528
2771	Greeting cards.....	131,343	3,272		134,615
278	Bookbinding and related industries.....	199,271	2,670		201,940
2781	Bookbinding.....	84,741	1,319		86,060
2782	Blankbooks and paper ruling.....	47,910	871		48,781
2783	Loose-leaf binders and devices.....	49,651	463		50,114
2789	Miscellaneous bookbinding work.....	16,968	17		16,985
279	Printing trade services industries.....	368,766	1,465		370,229
2791	Typesetting.....	106,909	421		107,330
2792	Engraving and plate printing.....	43,385	278		43,663
2793	Photoengraving.....	148,876	406		149,282
2794	Electrotyping and stereotyping.....	69,594	360		69,954
28	Chemicals and products.....	9,443,629	178,661	-11,110	9,611,180
281	Inorganic chemicals.....	1,386,544	11,779	10,338	1,408,661
2811	Sulfuric acid.....	66,175	1,554	433	68,162
2812	Alkalies and chlorine.....	251,033	3,171	2,078	256,282
2819	Inorganic chemicals, nec.....	1,069,335	7,054	7,825	1,084,214
282	Organic chemicals.....	3,214,454	14,860	-18,558	3,210,756
2821	Cyclic (coal tar) crudes.....	22,179	494	-467	22,206
2822	Intermediates and organic colors.....	362,305	4,402	-3,834	362,873
2823	Plastics materials.....	583,224	2,916	-295	585,845
2824	Synthetic rubber.....	152,906	67	-10,455	142,518
2825	Synthetic fiber.....	717,226	6	-18,552	698,680
2826	Explosives.....	205,442	866	14,962	221,270
2829	Organic chemicals, nec.....	1,171,165	6,109	83	1,177,357
283	Drugs and medicines.....	1,336,562	27,706	660	1,364,928
2831	Biological products.....	36,680	1,296	1,408	39,384
2833	Medicinal chemicals (inc. botanicals)...	138,877	4,008	412	143,297
2834	Pharmaceutical preparations.....	1,161,004	22,402	-1,160	1,182,246
284	Soap and related products.....	827,668	28,938	-4,357	852,249
2841	Soap and glycerin.....	510,756	14,887	-4,230	521,413
2842	Cleaning and polishing preparations.....	288,590	13,039	-1,413	300,216
2843	Sulfonated oils and assistants.....	28,322	1,012	1,287	30,621
285	Paints and allied products.....	849,895	19,228	-1,850	867,273
2851	Paints and varnishes.....	642,656	15,857	3,292	661,805
2852	Inorganic color pigments.....	196,901	2,828	-5,207	194,522
2853	Whiting and fillers.....	10,337	543	66	10,946
286	Gum and wood chemicals.....	62,053	484	-670	61,867
2861	Hardwood distillation.....	7,419	7	404	7,830
2862	Softwood distillation.....	47,374	133	-1,342	46,165
2863	Gum naval stores.....	2,473	222	593	3,288
2865	Tanning and dyeing materials.....	4,785	122	-326	4,581

See footnotes a. and end of table.

## GENERAL SUMMARY

Table 2B.—UNADJUSTED AND ADJUSTED VALUE ADDED FOR INDUSTRIES AND INDUSTRY GROUPS: 1954—Continued

(In thousands of dollars. For explanation of column headings see Table 2A.)

Code	Industry and industry group	Value added by manufacture, unadjusted <sup>1</sup>	Value added by merchandising (resales)	Net change in finished products and work-in- process inventories between the beginning and end of 1954 <sup>2</sup>	Adjusted value added <sup>3</sup>
	Chemicals and allied products—Con.				
287	Fertilizers.....	252,422	17,756	1,872	272,050
2871	Fertilizers.....	171,297	6,334	1,788	179,419
2872	Fertilizers, mixing only.....	81,125	11,422	84	92,631
288	Vegetable and animal oils.....	385,475	7,786	4,753	398,014
2881	Cottonseed oil mills.....	101,164	3,407	7,163	111,734
2882	Linseed oil mills.....	16,679	17	-1,908	14,788
2883	Soybean oil mills.....	106,938	2,754	-2,474	107,218
2884	Vegetable oil mills, nec.....	21,240	708	-82	21,866
2886	Grease and tallow.....	95,451	121	1,053	96,625
2887	Fatty acids.....	21,922	749	1,296	23,967
2889	Animal oils, nec.....	22,079	30	-296	21,813
289	Chemical products, nec.....	1,128,552	50,124	-3,298	1,175,378
2891	Printing ink.....	87,289	714	340	88,343
2892	Essential oils.....	5,484	195	21	5,700
2893	Toilet preparations.....	419,666	15,567	-2,758	432,475
2894	Glue and gelatin.....	64,771	2,065	963	67,799
2895	Carbon black.....	62,424	17	-2,124	60,317
2896	Compressed and liquefied gases.....	111,254	10,863	-277	121,840
2897	Insecticides and fungicides.....	62,099	9,742	-558	71,283
2898	Salt.....	48,936	108	205	49,249
2899	Chemical products, nec.....	266,627	10,853	890	278,370
29	Petroleum and coal products.....	2,582,613	37,876	1,510	2,621,999
2911	Petroleum refining.....	1,901,333	22,196	-5,509	1,918,020
293	Coke and byproducts.....	373,874	45	7,204	381,123
2931	Beehive coke ovens.....	2,494	2	2	2,498
2932	Byproduct coke ovens.....	371,380	43	7,202	378,625
295	Paving and roofing materials.....	199,584	7,057	1,112	207,753
2951	Paving mixtures and blocks.....	50,260	1,582	303	52,145
2952	Roofing felts and coatings.....	149,323	5,475	809	155,607
299	Petroleum and coal products, nec.....	107,818	8,578	-1,297	115,099
2992	Lubricants, nec.....	85,063	7,408	-1,810	90,661
2999	Petroleum and coal products, nec.....	22,754	1,170	513	24,437
30	Rubber products.....	1,903,702	56,230	-5,531	1,954,401
3011	Tires and inner tubes.....	844,545	37,039	-3,813	877,771
3021	Rubber footwear.....	107,027	792	-1,051	106,768
3031	Reclaimed rubber.....	22,043	1,407	4	23,454
3099	Rubber industries, nec.....	930,086	16,992	-671	946,407
31	Leather and leather goods.....	1,637,417	11,593	-8,206	1,640,804
3111	Leather tanning and finishing.....	264,264	785	-4,821	260,228
3121	Industrial leather belting.....	34,911	1,507	-1,035	35,383
3131	Footwear cut stock.....	87,185	1,720	-1,835	87,070
314	Footwear, except rubber.....	985,754	3,523	-898	988,379
3141	Footwear, except rubber.....	940,704	3,454	-1,197	942,961
3142	House slippers.....	45,050	69	299	45,418
315	Leather gloves.....	23,185	601	-1,068	22,718
3151	Leather dress gloves.....	13,559	409	-922	13,046
3152	Leather work gloves.....	9,626	192	146	9,972
3161	Luggage.....	89,385	766	1,162	91,313
317	Purses and small leather goods.....	125,517	952	31	126,500
3171	Handbags and purses.....	92,968	808	89	93,865
3172	Small leather goods.....	32,549	144	58	32,635
319	Miscellaneous leather goods.....	27,211	1,739	258	29,208
3192	Saddlery, harness, and whips.....	5,116	402	-42	5,476
3199	Leather goods, nec.....	22,095	1,337	300	23,732
32	Stone, clay, and glass products.....	3,821,659	50,436	-5,866	3,866,229
3211	Flat glass.....	252,313	799	-5,937	247,175
322	Pressed and blown glassware.....	674,382	2,760	1,697	678,839
3221	Glass containers.....	377,161	1,719	5,767	384,647
3229	Pressed and blown glass, nec.....	297,221	1,041	-4,070	294,192
3231	Products of purchased glass.....	192,644	3,614	-2,976	193,282
3241	Cement, hydraulic.....	528,920	613	-3,866	525,667

See footnotes at end of table.

Table 2B.—UNADJUSTED AND ADJUSTED VALUE ADDED FOR INDUSTRIES AND INDUSTRY GROUPS: 1954—Continued  
(In thousands of dollars. For explanation of column captions see Introduction)

Code	Industry and industry group	Value added by manufacture, unadjusted <sup>1</sup>	Value added by merchandising (resales)	Net change in finished products and work-in- process inventories between the beginning and end of 1954 <sup>2</sup>	Adjusted value added <sup>1</sup>
	Stone, clay, and glass products—Con.				
325	Structural clay products.....	425,356	3,236	-943	427,649
3251	Brick and hollow tile.....	183,312	1,873	-1,168	184,017
3253	Floor and wall tile.....	70,606	360	534	71,500
3254	Sewer pipe.....	55,293	280	279	55,852
3255	Clay refractories.....	88,753	581	-851	88,483
3259	Structural clay products, nec.....	27,391	142	263	27,796
326	Pottery and related products.....	260,062	2,645	-4,724	257,983
3261	Vitreous plumbing fixtures.....	76,740	1,246	-2,447	75,539
3262	Vitreous-china food utensils.....	36,184	204	25	36,413
3263	Earthenware food utensils.....	49,751	57	-1,153	48,655
3264	Porcelain electrical supplies.....	54,675	696	-1,059	54,312
3265	China decorating for the trade.....	2,148	19	15	2,182
3269	Pottery products, nec.....	40,562	423	-105	40,880
327	Concrete and plaster products.....	705,513	22,062	6,055	733,630
3271	Concrete products.....	396,344	17,243	5,105	418,692
3272	Gypsum products.....	161,898	3,339	34	165,271
3274	Lime.....	57,383	503	99	57,985
3275	Mineral wool.....	89,887	977	817	91,681
3281	Cut-stone and stone products.....	119,765	1,584	115	121,464
329	Nonmetallic mineral products, nec.....	662,699	13,123	4,713	680,535
3291	Abrasive products.....	191,850	3,685	3,448	198,983
3292	Asbestos products.....	179,864	4,473	2,590	186,927
3293	Gaskets and asbestos insulations.....	84,485	2,972	-204	87,253
3295	Minerals: ground or treated.....	89,725	811	216	90,752
3297	Nonclay refractories.....	78,101	387	-1,045	77,443
3298	Statuary and art goods.....	8,332	585	-3	8,914
3299	Nonmetallic mineral products, nec.....	30,340	210	-289	30,261
33	Primary metal industries.....	9,372,910	29,149	-11,624	9,390,435
331	Blast furnaces and steel mills.....	4,755,233	6,180	31,658	4,793,071
3312	Steel works and rolling mills.....	4,640,515	6,104	27,667	4,674,286
3313	Electrometallurgical products.....	114,718	76	3,991	118,785
332	Iron and steel foundries.....	1,339,270	3,552	-15,418	1,327,404
3321	Gray-iron foundries.....	846,271	2,774	-1,609	847,436
3322	Malleable-iron foundries.....	135,175	81	-1,994	133,262
3323	Steel foundries.....	357,824	697	-11,815	346,706
333	Primary nonferrous metals.....	614,159	174	-31,165	583,168
3331	Primary copper.....	156,981	9	-6,185	150,805
3332	Primary lead.....	30,772	...	-8,032	22,740
3333	Primary zinc.....	87,501	71	-12,011	75,561
3334	Primary aluminum.....	264,201	30	-5,287	258,944
3339	Primary nonferrous metals, nec.....	74,703	64	350	75,117
3341	Secondary nonferrous metals.....	142,329	7,874	2,210	152,413
335	Nonferrous rolling and drawing.....	860,228	3,230	16,935	880,393
3351	Copper rolling and drawing.....	420,604	1,465	847	422,916
3352	Aluminum rolling and drawing.....	339,717	135	12,497	352,349
3359	Nonferrous rolling and drawing, nec.....	99,907	1,630	3,591	105,128
3361	Nonferrous foundries.....	476,969	1,967	-6,505	472,431
339	Primary metal industries, nec.....	1,184,721	6,172	-9,339	1,181,554
3391	Iron and steel forgings.....	304,258	1,356	-11,502	294,112
3392	Wire drawing.....	465,654	2,155	1,177	468,986
3393	Welded and heavy-riveted pipe.....	204,325	1,136	2,182	207,643
3399	Primary metal industries, nec.....	210,482	1,525	-1,196	210,811
34	Fabricated metal products.....	7,596,275	136,792	-79,676	7,653,391
3411	Tin cans and other tinware.....	482,297	1,267	16,844	500,408
342	Cutlery, hand tools, and hardware.....	1,044,425	10,909	-14,654	1,040,680
3421	Cutlery.....	122,357	564	-1,972	120,949
3422	Edge tools.....	48,027	793	-248	48,572
3423	Hand tools, nec.....	162,051	4,570	-5,095	161,526
3424	Files.....	19,163	101	308	19,572
3425	Hand-saws and saw blades.....	53,246	1,344	-3,493	51,097
3429	Hardware, nec.....	639,578	3,537	-4,154	638,961
343	Heating and plumbing equipment.....	828,467	14,153	-14,703	827,917
3431	Plumbing fixtures and fittings.....	240,944	4,483	-5,964	239,463
3432	Oil burners.....	587,523	9,670	-8,739	588,454
3439	Heating and cooking apparatus, nec.....				
344	Structural metal products.....	2,203,635	72,570	-41,104	2,235,101
3441	Structural and ornamental products.....	909,782	39,823	-19,103	930,502
3442	Metal doors, sash, and trim.....	334,956	8,168	-279	342,845
3443	Boiler shop products.....	578,568	8,829	-19,251	568,146
3444	Sheet-metal work.....	380,327	15,750	-2,471	393,606

See footnotes at end of table.



## GENERAL SUMMARY

Table 2B.—UNADJUSTED AND ADJUSTED VALUE ADDED FOR INDUSTRIES AND INDUSTRY GROUPS: 1954—Continued

In thousands of dollars. For explanation of column captions see Introduction.)

Code	Industry and industry group	Value added by manufacture, unadjusted <sup>1</sup>	Value added by merchandising (resales)	Net change in finished products and work-in-process inventories between the beginning and end of 1954 <sup>2</sup>	Adjusted value added <sup>1</sup>
	Fabricated metal products—con.				
3441	Metal stamping and coating.....	1,245,074	13,649	-15,863	1,242,860
3441	Vitreous-enameled products.....	36,618	102	-549	36,171
3463	Metal stampings.....	923,939	12,842	-14,885	921,896
3465	Enameling and lacquering.....	29,992	79	-115	29,956
3466	Galvanizing.....	19,945	71	45	20,061
3467	Engraving on metal.....	20,508	94	-157	20,445
3468	Plating and polishing.....	214,070	461	-201	214,330
3471	Lighting fixtures.....	323,711	3,546	-2,606	324,651
3481	Fabricated wire products.....	430,815	3,959	-3,073	431,701
3481	Nails and spikes.....	18,447	100	-156	18,391
3489	Wirework, nec.....	412,368	3,859	-2,917	413,310
3491	Metal products, nec.....	1,037,849	16,739	-4,517	1,050,071
3491	Metal barrels, drums, and pails.....	85,865	1,385	-1,583	85,667
3492	Safes and vaults.....	28,974	385	224	29,583
3493	Steel springs.....	50,152	1,923	-1,307	50,768
3494	Bolts, nuts, washers, and rivets.....	411,662	8,038	1,812	421,512
3495	Screw machine products.....	246,886	977	-4,298	243,565
3496	Collapsible tubes.....	22,239	121	69	22,429
3497	Metal drill.....	62,604	187	3,066	65,857
3499	Fabricated metal products, nec.....	129,464	3,723	-2,500	130,687
35	Machinery, except electrical.....	12,338,923	218,330	-374,662	12,182,591
3511	Engines and turbines.....	690,131	5,914	-45,144	650,901
3511	Steam engines and turbines.....	295,367	275	-15,941	279,701
3519	Internal combustion engines.....	394,763	5,639	-29,203	371,199
3521	Tractors and farm machinery.....	1,050,370	22,343	-36,779	1,035,934
3521	Tractors.....	516,484	13,021	-20,138	509,367
3522	Farm machinery (except tractors).....	533,886	9,322	-16,641	526,567
3531	Construction and mining machinery.....	901,408	21,193	-16,907	905,694
3531	Construction and mining machinery.....	582,670	14,809	-19,295	578,184
3532	Oilfield machinery and tools.....	318,737	6,384	2,388	327,509
3541	Metalworking machinery.....	2,350,111	24,428	-99,608	2,274,931
3541	Machine tools.....	788,219	5,786	-50,436	743,569
3542	Metalworking machinery.....	513,279	14,229	-19,636	507,872
3544	Special dies and tools.....	697,004	2,411	-17,326	682,089
3545	Metalworking machinery attachments.....	351,607	2,002	-12,210	341,399
3551	Special-industry machinery, nec.....	1,214,836	32,523	-23,821	1,223,538
3551	Food-products machinery.....	256,240	7,376	-1,377	261,779
3552	Textile machinery.....	217,560	2,421	-3,375	216,606
3553	Woodworking machinery.....	101,721	3,131	-2,327	102,525
3554	Paper-industries machinery.....	112,565	1,908	-4,670	109,803
3555	Printing-trades machinery.....	173,805	6,975	-1,814	178,966
3559	Special-industry machinery, nec.....	352,943	10,712	-9,798	353,857
3561	General industrial machinery.....	1,859,054	42,963	-58,175	1,843,842
3561	Pumps and compressors.....	498,011	16,251	-18,794	495,471
3562	Elevators and escalators.....	102,106	784	-3,127	99,763
3563	Conveyors.....	286,919	4,605	-9,742	281,782
3564	Blowers and fans.....	151,272	4,005	-1,911	153,366
3565	Industrial trucks and tractors.....	123,044	4,811	-3,400	124,455
3566	Power-transmission equipment.....	393,984	5,976	-11,706	388,254
3567	Industrial furnaces and ovens.....	81,399	2,171	-2,753	80,817
3568	Mechanical stokers.....	8,976	167	241	9,384
3569	General industrial machinery, nec.....	213,340	4,193	-6,983	210,550
3571	Office and store machines.....	773,881	10,730	-7,633	776,978
3571	Computing and related machines.....	412,048	1,642	-8,276	405,414
3572	Typewriters.....	131,306	2,771	2,876	136,953
3576	Scales and balances.....	44,047	247	1,239	45,535
3579	Office and store machines, nec.....	186,479	6,068	-3,472	189,075
3581	Service and household machines.....	1,589,044	32,513	-71,049	1,550,508
3581	Domestic laundry machines.....	207,395	2,068	-18,777	190,686
3582	Laundry and dry-cleaning machinery.....	54,218	3,340	-914	56,644
3583	Sewing machines.....	76,602	2,156	-8,419	70,339
3584	Vacuum cleaners.....	91,850	2,605	-4,578	89,877
3585	Refrigeration machinery.....	1,006,193	16,021	-35,388	986,826
3586	Measuring and dispensing pumps.....	63,160	1,981	-1,122	64,019
3589	Service and household machines, nec.....	89,624	4,342	-1,851	92,115
3591	Miscellaneous machinery parts.....	1,910,083	25,723	-15,546	1,920,260
3591	Valves and fittings, except plbg.....	567,518	5,833	5,655	579,006
3592	Fabricated pipe and fittings.....	123,028	4,608	-5,228	122,408
3593	Ball and roller bearings.....	335,101	897	-6,605	329,393
3594	Industrial patterns and molds.....	152,049	645	-555	152,139
3599	Machine shops.....	732,387	13,740	-8,813	737,314

See footnotes at end of table.

## GENERAL SUMMARY

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Table 2B.—UNADJUSTED AND ADJUSTED VALUE ADDED FOR INDUSTRIES AND INDUSTRY GROUPS: 1954—Continued

(In thousands of dollars. For explanation of column captions see Introduction)

Code	Industry and industry group	Value added by manufacture, unadjusted <sup>1</sup>	Value added by merchandising (resales)	Net change in finished products and work-in-process inventories between the beginning and end of 1954 <sup>2</sup>	Adjusted value added <sup>1</sup>
36	Electrical machinery.....	7,403,134	119,768	-223,295	7,299,607
361	Electrical industrial apparatus.....	2,795,415	33,100	-85,895	2,742,620
3611	Wiring devices and supplies.....	340,911	6,135	89	347,135
3612	Carbon and graphite products.....	62,873	132	1,574	64,579
3613	Electrical measuring instruments.....	248,478	5,540	-8,430	245,588
3614	Motors and generators.....	844,128	12,232	-38,759	817,601
3615	Transformers.....	410,245	386	-16,355	394,276
3616	Electrical control apparatus.....	700,477	5,918	-19,087	687,308
3617	Electrical welding apparatus.....	78,645	1,742	-2,893	77,494
3619	Electrical industrial apparatus, nec.....	109,656	1,015	-2,034	108,637
3621	Electrical appliances.....	424,031	5,970	-3,754	426,247
3631	Insulated wire and cable.....	110,317	458	-1,586	109,189
3641	Engine electrical equipment.....	339,251	8,511	-11,139	336,623
3651	Electric lamps (bulbs).....	218,137	1,220	-3,127	216,230
366	Communication equipment.....	3,214,097	62,368	-115,515	3,160,950
3661	Radios and related products.....	2,130,207	44,286	-93,611	2,080,882
3662	Electronic tubes.....	461,904	2,313	-13,712	450,505
3663	Phonograph records.....	57,387	1,310	-8	58,689
3664	Telephone and telegraph equipment.....	497,829	11,338	-8,971	500,196
3669	Communication equipment, nec.....	66,769	3,121	787	70,677
369	Electrical products, nec.....	301,883	8,141	-2,279	307,745
3691	Storage batteries.....	127,503	308	1,071	128,882
3692	Primary batteries.....	62,388	334	-4,232	58,490
3693	X-ray and therapeutic apparatus.....	51,518	4,788	1,359	57,665
3699	Electrical products, nec.....	60,472	2,711	-477	62,706
37	Transportation equipment.....	13,925,983	80,281	-230,319	13,775,945
371	Motor vehicles and equipment.....	6,406,642	33,250	-237,360	6,202,532
3713	Truck and bus bodies.....	112,834	2,957	411	116,202
3715	Truck trailers.....	113,469	2,419	-170	115,718
3716	Automobile trailers.....	68,784	962	-571	69,175
3717	Motor vehicles and parts.....	6,111,554	26,912	-237,030	5,901,436
372	Aircraft and parts.....	6,287,620	41,189	109,157	6,437,966
3721	Aircraft.....	3,348,876	19,871	353,504	3,722,251
3722	Aircraft engines.....	1,435,443	14,579	-147,779	1,302,239
3723	Aircraft propellers.....	108,415	232	-9,192	99,455
3729	Aircraft equipment, nec.....	1,394,886	6,511	-87,376	1,314,021
373	Ships and boats.....	776,415	2,584	-21,824	757,175
3731	Ship building and repairing.....	691,908	888	-21,926	670,870
3732	Boat building and repairing.....	84,507	1,696	102	86,305
374	Railroad equipment.....	403,547	2,531	78,027	328,051
3741	Locomotives and parts.....	188,322	1,440	-25,756	164,006
3742	Railroad and street cars.....	215,224	1,091	-52,271	164,044
3751	Motorcycles and bicycles.....	41,819	675	-2,317	40,177
3799	Transportation equipment, nec.....	9,938	52	52	10,042
38	Instruments and related products.....	2,128,706	50,072	-47,165	2,131,613
3811	Scientific instruments.....	356,713	6,967	-23,534	340,146
3821	Mechanical measuring instruments.....	542,602	5,868	-5,807	542,663
3831	Optical instruments and lenses.....	86,380	592	-3,126	83,846
384	Medical instruments and supplies.....	272,020	18,285	-508	289,797
3841	Surgical and medical instruments.....	41,656	896	89	42,641
3842	Surgical appliances and supplies.....	179,209	15,721	-1,065	193,865
3843	Dental equipment and supplies.....	51,154	1,668	468	53,290
3851	Ophthalmic goods.....	110,452	301	-3,694	107,059
3861	Photographic equipment.....	561,238	15,570	-9,383	567,425
387	Watches and clocks.....	199,300	2,489	-1,113	200,676
3871	Watches and clocks.....	179,069	2,481	318	181,868
3872	Watchcases.....	20,231	8	-1,431	18,808
39	Miscellaneous manufactures <sup>4</sup> .....	4,473,050	63,287	-143,714	4,392,623
391	Jewelry and silverware.....	297,580	6,833	-2,355	302,058
3911	Jewelry (precious metal).....	145,567	4,658	-625	149,600
3912	Jewelers' findings.....	31,369	218	-148	31,439
3913	Lapidary work.....	10,608	520	53	11,181
3914	Silverware and plated ware.....	110,034	1,437	-1,635	109,836

See footnotes at end of table.

## GENERAL SUMMARY

Table 2B.—UNADJUSTED AND ADJUSTED VALUE ADDED FOR INDUSTRIES AND INDUSTRY GROUPS: 1954—Continued

(In thousands of dollars. For explanation of column captions see Introduction.)

Code	Industry and industry group	Value added by manufacture, unadjusted <sup>1</sup>	Value added by merchandising (resales)	Net change in finished products and work-in-process inventories between the beginning and end of 1954 <sup>2</sup>	Adjusted value added <sup>3</sup>
393	Miscellaneous manufactures <sup>4</sup> --Con.				
3931	Musical instruments and parts.....	93,072	810	331	94,213
3932	Pianos.....	32,436	13	-88	32,361
3933	Organs.....	8,664	...	-159	8,505
3933	Piano and organ parts.....	25,239	55	-108	25,186
3939	Musical instruments, nec.....	26,731	742	687	28,160
394	Toys and sporting goods.....	469,413	6,192	-7,247	468,358
3941	Games and toys, nec.....	208,484	1,968	-3,746	206,706
3942	Dolls.....	66,289	431	-369	66,351
3943	Children's vehicles.....	36,499	84	-1,122	35,461
3949	Sporting and athletic goods.....	158,153	3,709	-2,010	159,852
395	Office supplies.....	195,080	5,407	421	200,908
3951	Pens and mechanical pencils.....	83,793	326	1	84,120
3952	Lead pencils and crayons.....	29,224	652	686	30,562
3953	Hand stamps and stencils.....	32,466	2,563	-268	34,761
3954	Artists' materials.....	11,836	96	-219	11,713
3955	Carbon paper and inked ribbons.....	37,758	1,770	221	39,749
396	Costume jewelry and notions.....	316,497	5,558	-3,743	318,312
3961	Costume jewelry.....	129,239	2,694	-144	131,789
3962	Artificial flowers.....	28,952	722	250	29,924
3963	Buttons.....	36,679	1,359	181	38,219
3964	Needles, pins, and fasteners.....	121,625	783	-4,030	118,378
3971	Plastics products, nec.....	589,254	5,407	3,727	598,388
398	Miscellaneous manufactures <sup>4</sup> .....	2,512,162	33,080	-134,848	2,410,394
3981	Brooms and brushes.....	91,737	11,410	-199	102,948
3982	Cork products.....	19,843	7	-227	19,623
3983	Matches.....	35,391	30	140	35,561
3984	Candles.....	16,486	373	153	17,012
3985	Fireworks and pyrotechnics.....	11,931	103	-493	11,541
3986	Jewelry and instrument cases.....	37,559	393	-705	37,247
3987	Lamp shades.....	21,492	157	-6	21,643
3988	Morticians' goods.....	92,024	3,037	308	95,369
3991	Beauty and barber-shop equipment.....	11,963	85	34	12,082
3992	Furs, dressed and dyed.....	23,901	27	77	24,005
3993	Signs and advertising displays.....	216,666	2,519	757	219,942
3994	Hairwork.....	7,296	239	-152	7,383
3995	Umbrellas, parasols, and canes.....	14,917	131	-459	14,589
3996	Tobacco pipes.....	7,260	388	-205	7,443
3997	Soda-fountain and bar equipment.....	10,808	534	-300	11,042
3999	Miscellaneous products, nec.....	123,805	4,600	-2,106	126,299
19--	Ordinance and accessories.....	1,769,065	9,047	-131,465	1,646,647

<sup>1</sup>Unadjusted value added by manufacture represents value of products shipped (excluding resales) during the year less the cost of materials, supplies, fuel, electric energy, and contract work. Adjusted value added by manufacture represents value of products shipped (including resales of finished products produced by other manufacturing establishments) less cost of products, materials, supplies, fuel, electric energy and contract work plus the net change in finished products and work-in-process inventories between the beginning and end of the year. All other 1954 census tables show only the unadjusted value added by manufacture figures (see Introduction-Value Added by Manufacture).

<sup>2</sup>In 1954, establishments that reported on the short form (generally those with less than six employees) were asked to show only their total beginning and end of year inventories. The 1954 totals were prorated on the basis 1954 industry averages of the establishments that reported detailed inventory by type to obtain inventory figures representing all establishments for 1954.

<sup>3</sup>The adjusted value added figures for industries classified in Major Group 27, Printing and Publishing Industries do not reflect the change in inventories between the beginning and end of the year since inventory statistics were not collected from establishments classified in that industry group.

<sup>4</sup>Includes privately owned and/or operated establishments classified in Industry Group 19, "Ordinance and Accessories." Government owned and operated establishments are excluded from the annual survey and the census data.



## GENERAL SUMMARY

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Table 3.—DETAILED STATISTICS FOR ALL OPERATING MANUFACTURING ESTABLISHMENTS IN THE UNITED STATES: 1954 AND 1947

(For explanation of line captions see INTRODUCTION)

Item	1954 <sup>1</sup>	1947 <sup>1</sup>	Item	1954 <sup>1</sup>	1947 <sup>1</sup>
Number of establishments, total.....	286,817	240,807	Cost and quantity of purchased fuel and electricity—Continued		
With 1-19 employees.....	196,344	157,608	Electric energy:		
With 20-99 employees.....	63,889	58,669	Purchased:		
With 100 employees and over.....	26,584	24,530	Quantity.....million kwh..	187,027	102,822
All employees:			Cost.....\$1,000..	1,725,350	954,717
Number.....	15,651,294	14,293,963	Generated.....million kwh..	69,683	43,936
Payroll.....\$1,000..	62,993,321	39,695,558	Sold:		
Production workers:			Quantity.....do....	9,044	5,811
Number.....	12,373,030	11,917,884	Value.....\$1,000..	82,830	40,815
Man-hours.....	24,341,239	24,316,465	Manufacturers' inventories:		
Wages.....\$1,000..	44,595,457	30,243,971	Beginning of year, total.....	42,846,663	22,432,422
Value added by manufacture.....do....	116,912,526	74,290,475	Finished products.....do....	13,794,458	6,159,703
Value added by resales.....do....	1,760,131	(NA)	Work-in-process.....do....	12,849,424	16,272,719
Number of employees for selected months:			Materials, supplies, fuel, etc.....do....	16,202,506	
March.....	15,761,223	(NA)	End of year, total.....do....	40,340,893	26,129,137
May.....	15,482,096	(NA)	Finished products.....do....	13,540,617	7,808,637
August.....	15,633,204	(NA)	Work-in-process.....do....	11,881,153	18,320,500
November.....	15,755,468	(NA)	Materials, supplies, fuel, etc.....do....	14,918,817	
Cost and quantity of purchased fuel and electricity:			Expenditures for plant and equipment, total.....do....	8,197,261	6,627,029
Fuels consumed, total.....\$1,000..	23,211,757	2,376,801	Capital expenditures, new.....do....	7,818,155	6,003,873
Bituminous coal and anthracite:			New structures and additions to plant.....do....	2,250,222	2,122,143
Quantity.....1,000 short tons..	91,457	110,869	New machinery and equipment.....do....	5,567,933	3,881,730
Value.....\$1,000..	676,804	692,827	Expenditures for used plant and equipment.....do....	379,106	623,156
Coke:			Horsepower rating of power equipment at end of 1954:		
Quantity.....1,000 short tons..	54,371	66,171	Horsepower of prime movers and electric motors driven by purchased energy.....1,000 hp..	108,362	(NA)
Value.....\$1,000..	867,865	729,403	Engines, etc., driving electric generators.....do....	20,906	(NA)
Fuel oil:			Engines, etc., not driving electric generators.....do....	14,673	(NA)
Quantity.....1,000 barrels..	185,541	166,947	Electric motors driven by purchased energy.....do....	72,783	(NA)
Value.....\$1,000..	578,220	474,945	Electric motors driven by energy generated at the establishment.....do....	19,038	(NA)
Gas:					
Quantity.....million cubic feet..	5,914,855	4,004,953			
Value.....\$1,000..	859,646	383,169			
Other fuels:					
Value.....do....	200,553	96,457			

NA Not available.

<sup>1</sup>In 1954, establishments that reported on the short form (generally those with less than six employees) were asked to show only their total expenditures for new plant and equipment, total beginning and end of year inventories and total cost of materials, supplies, fuel and electric energy. Their 1954 totals were prorated on the basis of 1954 industry averages of the establishments that reported detailed inventory expenditure, fuel, and electric energy data by type to obtain figures representing all establishments for 1954. In 1947, very small establishments that accounted for approximately 1.4% of the total manufacturing employment did not report inventory expenditure and detailed fuel and electric energy data and are not represented in the 1947 figures. See 1947 Census of Manufactures, Volume I, for a measure of undercoverage by industry.

<sup>2</sup>Detail fuel items will not add to total fuel, because only the total fuels figures were collected for major industries 23 and 27.

## GENERAL SUMMARY

Table A.—MANUFACTURING EMPLOYMENT FOR DIVISIONS, STATES AND STANDARD METROPOLITAN AREAS: 1954 AND EARLIER YEARS

(For explanation of column captions see Introduction)

Division, State, standard metropolitan area, and year <sup>1</sup>	Total manufacturing employment		Employment at operating manufacturing establishments		Employment at administrative offices and auxiliaries	
	Number	Payroll (\$1,000)	Number	Payroll (\$1,000)	Number	Payroll (\$1,000)
United States:						
1954.....	16,125,550	65,976,667	15,651,294	62,993,321	474,256	2,983,346
1953 <sup>2</sup> .....	17,093,004	68,590,424	16,693,076	66,492,872	399,928	2,097,552
1952 <sup>2</sup> .....	16,061,041	61,140,549	15,732,722	59,598,225	328,319	1,542,324
1951 <sup>2</sup> .....	15,637,957	56,283,787	15,309,638	54,741,463	328,319	1,542,324
1950 <sup>2</sup> .....	14,769,931	47,892,894	14,467,149	46,642,786	302,782	1,250,108
1949 <sup>2</sup> .....	13,880,050	42,752,032	13,566,949	41,482,008	313,101	1,270,024
New England:						
1954.....	1,450,025	5,460,694	1,431,300	5,356,133	18,725	104,561
1953 <sup>2</sup> .....	1,588,828	5,958,283	1,571,308	5,873,319	17,520	84,964
1952 <sup>2</sup> .....	1,503,282	5,404,018	1,482,089	5,318,226	21,193	85,792
1951 <sup>2</sup> .....	1,496,584	5,126,358	1,475,391	5,040,566	21,193	85,792
1950 <sup>2</sup> .....	1,433,359	4,397,007	1,418,010	4,337,683	15,349	59,324
1949 <sup>2</sup> .....	1,345,130	3,916,903	1,323,249	3,839,403	21,881	77,500
Maine:						
1954.....	104,507	325,048	104,025	322,158	482	2,890
1953 <sup>2</sup> .....	110,187	354,377	109,351	350,777	836	3,600
1952 <sup>2</sup> .....	108,321	323,033	107,590	320,517	731	3,516
1951 <sup>2</sup> .....	107,402	307,960	106,671	305,444	731	2,516
1950 <sup>2</sup> .....	108,309	281,757	108,050	280,357	259	1,400
1949 <sup>2</sup> .....	102,134	258,557	101,458	256,185	676	2,372
New Hampshire:						
1954.....	77,332	246,719	77,071	245,346	261	1,373
1953 <sup>2</sup> .....	88,771	272,833	87,866	270,025	905	2,808
1952 <sup>2</sup> .....	84,677	257,287	83,856	254,307	821	2,980
1951 <sup>2</sup> .....	85,851	246,864	85,030	243,884	821	2,980
1950 <sup>2</sup> .....	80,832	213,519	80,462	212,507	370	1,012
1949 <sup>2</sup> .....	77,924	193,581	76,975	191,437	949	2,144
Vermont:						
1954.....	36,112	123,577	35,899	122,829	213	748
1953 <sup>2</sup> .....	38,811	143,327	38,811	143,327	(4)	(4)
1952 <sup>2</sup> .....	42,180	150,042	42,180	150,042	(4)	(4)
1951 <sup>2</sup> .....	42,334	141,867	42,334	141,867	(4)	(4)
1950 <sup>2</sup> .....	40,636	115,829	40,636	115,829	(4)	(4)
1949 <sup>2</sup> .....	34,063	87,342	33,478	85,618	585	1,724
Massachusetts:						
1954.....	686,997	2,582,486	677,140	2,528,296	9,857	54,190
1953 <sup>2</sup> .....	741,457	2,743,880	733,868	2,706,164	7,589	37,716
1952 <sup>2</sup> .....	705,054	2,525,229	693,806	2,480,205	11,248	45,024
1951 <sup>2</sup> .....	713,931	2,449,429	702,683	2,404,405	11,248	45,024
1950 <sup>2</sup> .....	696,777	2,157,181	688,603	2,126,009	8,174	31,172
1949 <sup>2</sup> .....	659,807	1,942,312	649,700	1,907,132	10,107	35,180
Rhode Island:						
1954.....	125,041	431,889	123,970	425,365	1,071	6,524
1953 <sup>2</sup> .....	152,019	529,587	151,007	524,351	1,012	5,236
1952 <sup>2</sup> .....	131,698	446,880	130,485	442,472	1,213	4,408
1951 <sup>2</sup> .....	134,062	424,480	132,849	420,072	1,213	4,408
1950 <sup>2</sup> .....	135,473	390,904	134,043	386,468	1,430	4,436
1949 <sup>2</sup> .....	125,763	352,661	124,495	348,105	1,268	4,556
Connecticut:						
1954.....	420,034	1,750,972	413,193	1,712,136	6,841	38,836
1953 <sup>2</sup> .....	457,583	1,914,279	450,405	1,878,675	7,178	35,604
1952 <sup>2</sup> .....	431,352	1,701,547	424,172	1,670,683	7,180	30,864
1951 <sup>2</sup> .....	413,004	1,555,758	405,824	1,524,894	7,180	30,864
1950 <sup>2</sup> .....	371,332	1,237,817	366,216	1,216,513	5,116	21,304
1949 <sup>2</sup> .....	345,439	1,082,450	337,143	1,050,926	8,296	31,524
Middle Atlantic:						
1954.....	4,291,292	17,873,037	4,105,248	16,656,158	186,044	1,216,879
1953 <sup>2</sup> .....	4,498,034	18,291,234	4,362,051	17,572,382	135,983	718,852
1952 <sup>2</sup> .....	4,277,177	16,524,299	4,167,399	15,992,791	109,778	531,508
1951 <sup>2</sup> .....	4,174,147	15,366,321	4,064,369	14,834,813	109,778	531,508
1950 <sup>2</sup> .....	4,006,194	13,244,655	3,905,535	12,816,031	100,659	428,624
1949 <sup>2</sup> .....	3,850,592	12,205,084	3,737,368	11,728,888	113,224	476,196
New York:						
1954.....	2,008,072	8,472,625	1,895,982	7,734,388	112,090	738,237
1953 <sup>2</sup> .....	2,053,428	8,419,085	1,977,426	7,996,237	76,002	421,848
1952 <sup>2</sup> .....	1,950,032	7,623,909	1,889,036	7,321,717	60,996	302,192
1951 <sup>2</sup> .....	1,877,226	7,013,445	1,816,230	6,711,253	60,996	302,192
1950 <sup>2</sup> .....	1,829,479	6,170,564	1,762,624	5,878,192	66,855	292,372
1949 <sup>2</sup> .....	1,768,626	5,750,091	1,704,398	5,474,015	64,228	276,076
New Jersey:						
1954.....	810,525	3,489,145	787,593	3,352,425	22,932	146,720
1953 <sup>2</sup> .....	853,101	3,583,419	835,544	3,497,451	17,557	85,968
1952 <sup>2</sup> .....	792,016	3,231,418	778,328	3,171,990	13,688	59,428
1951 <sup>2</sup> .....	776,563	2,960,607	762,875	2,901,179	13,688	59,428
1950 <sup>2</sup> .....	730,650	2,531,320	721,493	2,498,816	9,157	32,504
1949 <sup>2</sup> .....	698,704	2,292,008	684,903	2,237,620	13,801	54,388

See footnotes at end of table.

## GENERAL SUMMARY

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Table 4A.—MANUFACTURING EMPLOYMENT F.P. DIVISIONS, STATES AND STANDARD METROPOLITAN AREA: 1954 AND EARLIER YEARS—Continued  
(For explanation of column captions see Introduction)

Division, State, standard metropolitan area, and year <sup>1</sup>	Total manufacturing employment		Employment at manufacturing establishments		Employment at administrative offices and auxiliaries	
	Number	Payroll (\$1,000)	Number	Payroll (\$1,000)	Number	Payroll (\$1,000)
<b>Middle Atlantic—Continued</b>						
<b>Pennsylvania:</b>						
1954.....	1,472,695	5,911,267	1,421,673	5,569,345	51,022	341,922
1953 <sup>2</sup> .....	1,591,505	6,288,730	1,549,081	6,078,694	42,424	210,036
1952 <sup>2</sup> .....	1,535,129	5,668,972	1,500,035	5,499,084	35,094	169,888
1951 <sup>2</sup> .....	1,520,358	5,392,269	1,485,264	5,222,381	35,094	169,888
1950 <sup>2</sup> .....	1,446,065	4,542,771	1,421,418	4,439,023	24,647	103,748
1949 <sup>2</sup> .....	1,383,262	4,162,985	1,348,067	4,017,253	35,195	145,732
<b>East North Central:</b>						
1954.....	4,604,516	20,925,690	4,459,829	20,003,625	144,687	922,065
1953 <sup>2</sup> .....	5,134,894	22,848,598	5,000,314	22,124,246	134,580	724,352
1952 <sup>2</sup> .....	4,732,252	20,073,035	4,628,971	19,568,947	103,281	504,088
1951 <sup>2</sup> .....	4,688,445	18,709,529	4,585,164	18,205,441	103,281	504,088
1950 <sup>2</sup> .....	4,427,093	15,991,647	4,328,066	15,559,155	99,027	432,492
1949 <sup>2</sup> .....	4,106,312	13,953,890	4,008,911	13,542,806	97,401	411,084
<b>Ohio:</b>						
1954.....	1,296,319	5,841,664	1,267,542	5,655,721	28,777	185,943
1953 <sup>2</sup> .....	1,420,095	6,352,819	1,383,971	6,166,115	36,124	186,704
1952 <sup>2</sup> .....	1,336,020	5,668,114	1,311,233	5,548,298	24,787	119,816
1951 <sup>2</sup> .....	1,302,678	5,236,937	1,277,891	5,117,121	24,787	119,816
1950 <sup>2</sup> .....	1,192,224	4,253,902	1,170,623	4,162,022	21,601	91,880
1949 <sup>2</sup> .....	1,103,302	3,688,386	1,078,746	3,585,634	24,556	102,752
<b>Indiana:</b>						
1954.....	587,782	2,532,422	582,803	2,504,411	4,979	28,011
1953 <sup>2</sup> .....	686,736	2,903,853	679,399	2,869,657	7,337	34,196
1952 <sup>2</sup> .....	611,687	2,444,256	604,949	2,419,456	6,738	34,800
1951 <sup>2</sup> .....	598,303	2,285,724	591,565	2,260,924	6,738	24,800
1950 <sup>2</sup> .....	563,730	1,958,091	558,370	1,938,651	5,360	19,440
1949 <sup>2</sup> .....	512,956	1,680,020	506,350	1,658,144	6,606	21,876
<b>Illinois:</b>						
1954.....	1,224,634	5,430,192	1,177,933	5,137,353	46,701	292,839
1953 <sup>2</sup> .....	1,316,089	5,668,441	1,284,031	5,495,229	32,058	173,212
1952 <sup>2</sup> .....	1,255,635	5,156,159	1,234,323	5,050,519	21,312	105,640
1951 <sup>2</sup> .....	1,241,013	4,814,799	1,219,701	4,709,159	21,312	105,640
1950 <sup>2</sup> .....	1,187,296	4,150,983	1,163,316	4,042,835	23,980	108,148
1949 <sup>2</sup> .....	1,132,352	3,820,173	1,103,973	3,697,953	28,379	122,220
<b>Michigan:</b>						
1954.....	1,056,564	5,252,352	1,001,630	4,891,749	54,934	360,603
1953 <sup>2</sup> .....	1,231,334	5,919,426	1,179,258	5,623,046	52,076	296,380
1952 <sup>2</sup> .....	1,063,873	4,932,989	1,021,265	4,708,765	42,608	224,224
1951 <sup>2</sup> .....	1,084,934	4,604,503	1,042,326	4,380,279	42,608	224,224
1950 <sup>2</sup> .....	1,054,441	4,144,440	1,012,145	3,952,496	42,296	191,944
1949 <sup>2</sup> .....	955,118	3,479,699	922,362	3,333,103	32,756	146,596
<b>Wisconsin:</b>						
1954.....	439,215	1,869,059	429,919	1,814,390	9,296	54,669
1953 <sup>2</sup> .....	480,640	2,004,059	473,655	1,970,199	6,985	33,860
1952 <sup>2</sup> .....	465,037	1,871,517	457,201	1,841,909	7,836	29,608
1951 <sup>2</sup> .....	461,517	1,767,566	453,681	1,737,958	7,836	29,608
1950 <sup>2</sup> .....	429,402	1,484,231	423,612	1,463,151	5,790	21,080
1949 <sup>2</sup> .....	402,584	1,285,612	397,480	1,267,972	5,104	17,640
<b>West North Central:</b>						
1954.....	963,778	3,863,288	939,357	3,731,449	24,421	131,839
1953 <sup>2</sup> .....	999,245	3,903,432	978,919	3,808,732	20,326	94,700
1952 <sup>2</sup> .....	962,179	3,557,219	946,917	3,496,043	15,262	61,176
1951 <sup>2</sup> .....	896,819	3,093,731	881,557	3,032,555	15,262	61,176
1950 <sup>2</sup> .....	828,111	2,586,487	811,926	2,529,007	16,185	57,480
1949 <sup>2</sup> .....	791,772	2,342,420	778,589	2,297,964	13,183	44,456
<b>Minnesota:</b>						
1954.....	208,506	865,254	203,022	834,888	5,484	30,366
1953 <sup>2</sup> .....	214,494	868,804	207,648	834,484	6,846	34,320
1952 <sup>2</sup> .....	211,899	804,582	208,199	786,442	3,700	18,140
1951 <sup>2</sup> .....	200,601	729,351	196,901	711,211	3,700	18,140
1950 <sup>2</sup> .....	186,123	612,726	180,864	593,914	5,259	18,812
1949 <sup>2</sup> .....	179,984	568,293	177,581	558,893	2,403	9,400
<b>Iowa:</b>						
1954.....	163,954	649,147	162,705	643,980	1,249	5,167
1953 <sup>2</sup> .....	166,274	642,766	165,773	640,194	501	2,572
1952 <sup>2</sup> .....	159,732	594,970	158,783	591,782	949	3,188
1951 <sup>2</sup> .....	157,438	547,744	156,489	544,556	949	3,188
1950 <sup>2</sup> .....	147,429	451,342	146,929	449,862	500	1,480
1949 <sup>2</sup> .....	140,689	416,922	140,020	414,982	669	1,940
<b>Missouri:</b>						
1954.....	382,430	1,500,348	368,479	1,420,103	13,951	80,245
1953 <sup>2</sup> .....	405,061	1,552,445	392,950	1,499,153	12,111	53,292
1952 <sup>2</sup> .....	378,258	1,360,676	369,108	1,325,108	9,150	35,568
1951 <sup>2</sup> .....	358,318	1,177,911	349,168	1,142,343	9,150	35,568
1950 <sup>2</sup> .....	340,239	1,037,085	330,813	1,003,357	9,426	33,728
1949 <sup>2</sup> .....	325,705	941,925	317,662	914,845	8,043	27,080

See footnotes at end of table.



## GENERAL SUMMARY

Table -A.-MANUFACTURING EMPLOYMENT FOR DIVISIONS, STATES AND STANDARD METROPOLITAN AREAS: 1954 AND EARLIER YEARS—Continued  
(For explanation of column captions see Introduction)

Division, State, standard metropolitan area, and year <sup>1</sup>	Total manufacturing employment		Employment at operating manufacturing establishments		Employment at administrative offices and auxiliaries	
	Number	Payroll (\$1,000)	Number	Payroll (\$1,000)	Number	Payroll (\$1,000)
West North Central—Continued						
North Dakota:						
1954.....	5,613	19,228	5,604	19,189	9	39
1953 <sup>2</sup> .....	7,814	24,379	7,796	24,175	18	204
1952 <sup>2</sup> .....	5,896	16,745	5,896	16,745	(4)	(4)
South Dakota:						
1954.....	11,550	41,173	11,531	41,096	19	77
1953 <sup>2</sup> .....	10,441	37,038	10,441	37,038	(4)	(4)
1952 <sup>2</sup> .....	11,554	41,937	11,554	41,937	(4)	(4)
Nebraska:						
1954.....	60,290	227,651	56,996	213,732	3,294	13,919
1953 <sup>2</sup> .....	57,588	210,973	57,424	210,073	164	900
1952 <sup>2</sup> .....	53,063	186,180	53,031	185,996	32	3184
1951 <sup>2</sup> .....	50,683	166,980	50,651	166,796	32	184
1950 <sup>2</sup> .....	48,025	147,793	47,984	147,617	41	176
1949 <sup>2</sup> .....	45,651	124,186	45,276	123,114	375	1,072
Kansas:						
1954.....	131,432	560,483	131,017	558,457	415	2,026
1953 <sup>2</sup> .....	137,572	567,027	136,886	563,615	686	3,412
1952 <sup>2</sup> .....	141,777	552,129	140,346	548,033	31,431	34,096
1951 <sup>2</sup> .....	113,305	421,230	111,874	417,134	1,431	4,096
1950 <sup>2</sup> .....	88,389	285,855	87,622	283,031	767	2,824
1949 <sup>2</sup> .....	83,413	248,042	82,090	243,790	1,323	4,252
South Atlantic:						
1954.....	1,778,959	5,702,560	1,745,372	5,480,901	33,587	221,659
1953 <sup>2</sup> .....	1,816,621	5,670,176	1,783,099	5,493,716	33,522	176,460
1952 <sup>2</sup> .....	1,751,671	5,152,447	1,722,184	5,010,227	329,487	3142,220
1951 <sup>2</sup> .....	1,697,457	4,784,021	1,667,970	4,641,801	29,487	142,220
1950 <sup>2</sup> .....	1,626,884	4,146,930	1,604,261	4,066,254	22,623	80,676
1949 <sup>2</sup> .....	1,521,782	3,680,685	1,502,335	3,611,821	19,447	68,864
Delaware:						
1954.....	54,530	267,354	39,418	151,269	15,112	116,085
1953 <sup>2</sup> .....	58,550	255,801	43,493	164,641	15,057	91,160
1952 <sup>2</sup> .....	58,670	239,593	45,367	164,913	313,303	374,680
1951 <sup>2</sup> .....	56,809	217,657	43,506	142,977	13,303	74,680
Maryland:						
1954.....	255,452	1,002,067	253,144	987,559	2,308	14,508
1953 <sup>2</sup> .....	261,948	1,014,618	259,303	1,001,510	2,645	13,108
1952 <sup>2</sup> .....	260,678	917,091	258,339	907,367	32,339	39,724
1951 <sup>2</sup> .....	250,404	851,382	248,065	841,658	2,339	9,724
1950 <sup>2</sup> .....	222,439	680,318	220,505	672,354	1,934	7,964
1949 <sup>2</sup> .....	210,981	618,006	209,577	612,450	1,404	5,556
District of Columbia:						
1954.....	21,723	97,011	20,399	90,083	1,324	6,928
1953 <sup>2</sup> .....	19,499	90,075	19,228	88,259	271	1,816
1952 <sup>2</sup> .....	18,008	72,049	17,930	71,481	378	3568
1951 <sup>2</sup> .....	17,253	66,202	17,175	65,634	78	568
1950 <sup>2</sup> .....	17,282	61,981	17,118	60,905	164	1,076
1949 <sup>2</sup> .....	17,026	59,770	16,854	58,618	172	1,152
Virginia:						
1954.....	242,864	777,020	239,733	760,454	3,131	16,566
1953 <sup>2</sup> .....	256,057	791,625	253,796	781,301	2,261	10,324
1952 <sup>2</sup> .....	240,998	711,337	238,446	701,957	32,552	39,380
1951 <sup>2</sup> .....	231,750	643,333	229,198	633,953	2,552	9,380
1950 <sup>2</sup> .....	225,133	573,968	222,103	563,404	3,030	10,564
1949 <sup>2</sup> .....	214,037	514,428	212,516	509,168	1,521	5,260
West Virginia:						
1954.....	122,390	494,893	118,568	472,560	3,822	22,333
1953 <sup>2</sup> .....	133,923	522,965	130,032	502,625	3,891	20,340
1952 <sup>2</sup> .....	134,346	478,112	131,014	462,132	3,332	315,980
1951 <sup>2</sup> .....	137,941	467,306	134,609	451,326	3,332	15,980
1950 <sup>2</sup> .....	129,242	396,445	124,420	376,849	4,822	19,596
1949 <sup>2</sup> .....	125,133	363,576	120,550	345,308	4,583	18,268
North Carolina:						
1954.....	434,934	1,185,629	430,001	1,157,416	4,933	28,213
1953 <sup>2</sup> .....	446,265	1,201,031	442,719	1,185,639	3,546	15,392
1952 <sup>2</sup> .....	418,588	1,088,813	414,943	1,071,309	33,645	317,504
1951 <sup>2</sup> .....	413,421	1,037,226	409,776	1,019,722	3,645	17,504
1950 <sup>2</sup> .....	408,295	957,214	405,583	947,406	2,712	9,808
1949 <sup>2</sup> .....	368,816	815,128	366,059	806,324	2,757	8,804
South Carolina:						
1954.....	219,826	634,743	219,447	632,709	379	2,034
1953 <sup>2</sup> .....	223,396	612,971	221,860	606,907	1,536	6,064
1952 <sup>2</sup> .....	207,365	561,854	206,182	558,026	31,183	33,828
1951 <sup>2</sup> .....	200,864	524,283	199,681	520,455	1,183	3,828
1950 <sup>2</sup> .....	195,954	465,617	194,408	461,773	1,546	3,844
1949 <sup>2</sup> .....	189,207	424,266	187,678	420,682	1,529	3,584

See footnotes at end of table.

## GENERAL SUMMARY

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Table 4A.—MANUFACTURING EMPLOYMENT FOR DIVISIONS, STATES AND STANDARD METROPOLITAN AREAS: 1954 AND EARLIER YEARS—Continued  
(For explanation of column captions see Introduction)

Division, State, standard metropolitan area, and year <sup>1</sup>	Total manufacturing employment		Employment at operating manufacturing establishments		Employment at administrative offices and auxiliaries	
	Number	Payroll (\$1,000)	Number	Payroll (\$1,000)	Number	Payroll (\$1,000)
<b>South Atlantic--Continued</b>						
<b>Georgia:</b>						
1954.....	303,278	854,522	301,290	843,557	1,988	10,965
1953 <sup>2</sup> .....	306,367	848,075	303,017	834,347	3,350	13,728
1952 <sup>2</sup> .....	294,506	751,043	292,342	742,243	<sup>3</sup> 2,164	<sup>3</sup> 8,800
1951 <sup>2</sup> .....	284,151	694,781	281,987	685,981	2,164	8,800
1950 <sup>2</sup> .....	292,273	650,897	288,926	640,269	3,347	10,628
1949 <sup>2</sup> .....	270,612	557,949	268,335	550,377	2,277	7,572
<b>Florida:</b>						
1954.....	123,958	389,318	123,368	385,291	590	4,027
1951 <sup>2</sup> .....	104,364	281,851	103,973	280,095	891	1,756
1950 <sup>2</sup> .....	91,397	224,139	90,270	221,859	1,127	2,280
1949 <sup>2</sup> .....	84,227	204,334	83,691	202,366	536	1,968
<b>East South Central:</b>						
1954.....	729,947	2,366,908	714,758	2,288,840	15,189	78,068
1953 <sup>2</sup> .....	747,148	2,372,074	737,892	2,329,018	9,256	43,056
1952 <sup>2</sup> .....	699,863	2,072,078	689,973	2,038,558	<sup>3</sup> 9,890	<sup>3</sup> 33,520
1951 <sup>2</sup> .....	684,156	1,888,841	674,266	1,855,321	9,890	33,520
1950 <sup>2</sup> .....	649,792	1,647,324	640,233	1,617,376	9,559	29,948
1949 <sup>2</sup> .....	603,165	1,435,192	594,336	1,407,008	8,829	28,184
<b>Kentucky:</b>						
1954.....	151,113	553,203	146,434	529,206	4,679	23,997
1953 <sup>2</sup> .....	150,319	532,300	148,977	524,492	1,342	7,808
1952 <sup>2</sup> .....	145,213	475,770	143,599	469,382	<sup>3</sup> 1,614	<sup>3</sup> 6,388
1951 <sup>2</sup> .....	147,323	463,968	145,709	457,580	1,614	6,388
1950 <sup>2</sup> .....	138,444	391,730	136,727	385,478	1,717	6,252
1949 <sup>2</sup> .....	124,936	336,009	123,711	331,713	1,225	4,296
<b>Tennessee:</b>						
1954.....	267,496	882,644	260,599	850,175	6,897	32,469
1953 <sup>2</sup> .....	275,276	903,478	272,617	891,674	2,659	11,804
1952 <sup>2</sup> .....	261,662	799,101	258,279	788,677	<sup>3</sup> 3,383	<sup>3</sup> 10,424
1951 <sup>2</sup> .....	240,987	666,628	237,604	656,204	3,383	10,424
1950 <sup>2</sup> .....	226,372	585,306	222,990	576,346	3,382	8,960
1949 <sup>2</sup> .....	216,700	517,817	213,090	507,329	3,610	10,488
<b>Alabama:</b>						
1954.....	220,077	690,015	217,084	672,109	2,993	17,906
1953 <sup>2</sup> .....	228,179	697,865	223,139	675,265	5,040	22,600
1952 <sup>2</sup> .....	213,010	608,102	209,197	593,046	<sup>3</sup> 3,813	<sup>3</sup> 15,056
1951 <sup>2</sup> .....	215,763	588,017	211,950	572,961	3,813	15,056
1950 <sup>2</sup> .....	211,162	524,322	207,544	511,374	3,618	12,948
1949 <sup>2</sup> .....	193,878	461,598	190,261	449,154	3,617	12,444
<b>Mississippi:</b>						
1954.....	91,261	241,046	90,641	237,350	620	3,696
1953 <sup>2</sup> .....	93,374	238,431	93,159	237,587	215	844
1952 <sup>2</sup> .....	79,978	189,105	78,898	187,453	<sup>3</sup> 1,080	<sup>3</sup> 1,652
1951 <sup>2</sup> .....	80,083	170,228	79,003	168,576	1,080	1,652
1950 <sup>2</sup> .....	73,814	145,966	72,972	144,178	842	1,788
1949 <sup>2</sup> .....	67,651	119,768	67,274	118,812	377	956
<b>West South Central:</b>						
1954.....	734,003	2,793,741	713,365	2,678,359	20,638	115,382
1953 <sup>2</sup> .....	739,798	2,718,968	716,645	2,599,284	23,153	119,684
1952 <sup>2</sup> .....	676,186	2,355,825	662,136	2,291,581	<sup>3</sup> 14,050	<sup>3</sup> 64,244
1951 <sup>2</sup> .....	649,906	2,087,930	635,856	2,023,686	14,050	64,244
1950 <sup>2</sup> .....	603,787	1,741,591	585,924	1,669,811	17,863	71,780
1949 <sup>2</sup> .....	574,663	1,584,593	556,462	1,515,529	18,201	69,064
<b>Arkansas:</b>						
1954.....	79,196	222,293	78,391	218,473	805	3,820
1953 <sup>2</sup> .....	80,525	219,463	79,575	215,643	950	3,820
1952 <sup>2</sup> .....	80,331	208,802	79,702	206,654	<sup>3</sup> 629	<sup>3</sup> 2,148
1951 <sup>2</sup> .....	75,987	181,739	75,358	179,591	629	2,148
1950 <sup>2</sup> .....	72,926	157,190	72,090	154,558	836	2,632
1949 <sup>2</sup> .....	62,846	125,250	62,252	123,306	594	1,944
<b>Louisiana:</b>						
1954.....	146,330	538,969	144,757	531,639	1,573	7,330
1953 <sup>2</sup> .....	152,949	533,448	150,808	526,168	1,741	7,280
1952 <sup>2</sup> .....	135,446	459,114	134,147	454,370	<sup>3</sup> 1,299	<sup>3</sup> 4,744
1951 <sup>2</sup> .....	135,354	415,921	134,055	411,177	1,299	4,744
1950 <sup>2</sup> .....	126,035	358,251	123,952	350,751	2,083	7,500
1949 <sup>2</sup> .....	119,719	316,725	117,246	311,369	2,473	5,356
<b>Oklahoma:</b>						
1954.....	89,257	363,627	79,851	307,902	9,406	55,725
1953 <sup>2</sup> .....	86,256	337,352	77,455	291,280	8,801	46,072
1952 <sup>2</sup> .....	77,222	266,783	72,172	243,191	<sup>3</sup> 5,050	<sup>3</sup> 23,592
1951 <sup>2</sup> .....	69,122	229,371	64,072	205,779	5,050	23,592
1950 <sup>2</sup> .....	63,494	187,657	58,062	163,185	5,432	24,472
1949 <sup>2</sup> .....	63,329	184,525	57,365	158,585	5,964	25,940

See footnotes at end of table.

## GENERAL SUMMARY

Table A.—MANUFACTURING EMPLOYMENT FOR DIVISIONS, STATES AND STANDARD METROPOLITAN AREAS: 1954 AND EARLIER YEARS—Continued  
(For explanation of column captions see Introduction)

Division, State, standard metropolitan area, and year <sup>1</sup>	Total manufacturing employment		Employment at operating manufacturing establishments		Employment at administrative offices and auxiliaries	
	Number	Payroll (\$1,000)	Number	Payroll (\$1,000)	Number	Payroll (\$1,000)
<b>West South Central—Continued</b>						
<b>Texas:</b>						
1954.....	419,218	1,668,851	410,364	1,620,344	8,854	48,507
1953 <sup>2</sup> .....	420,468	1,628,705	408,807	1,566,193	11,661	62,512
1952 <sup>2</sup> .....	383,187	1,421,126	376,115	1,387,366	<sup>3</sup> 7,072	<sup>3</sup> 33,760
1951 <sup>2</sup> .....	369,443	1,260,899	362,371	1,227,139	7,072	33,760
1950 <sup>2</sup> .....	341,332	1,038,493	331,820	1,001,317	9,512	37,176
1949 <sup>2</sup> .....	328,769	958,093	319,599	922,269	9,170	35,824
<b>Mountain:</b>						
1954.....	190,674	766,726	187,493	749,586	3,181	17,140
1953 <sup>2</sup> .....	187,072	743,945	183,925	728,013	3,147	15,932
1952 <sup>2</sup> .....	174,914	655,387	172,878	644,895	<sup>3</sup> 2,036	<sup>3</sup> 10,492
1951 <sup>2</sup> .....	166,772	588,370	164,736	577,878	2,036	10,492
1950 <sup>2</sup> .....	157,144	486,235	154,709	475,231	2,435	11,004
1949 <sup>2</sup> .....	144,888	433,435	142,600	422,955	2,288	10,480
<b>Montana:</b>						
1954.....	18,519	72,090	18,373	71,289	146	801
1953 <sup>2</sup> .....	17,768	71,975	17,691	71,599	77	376
1952 <sup>2</sup> .....	17,414	66,902	17,295	66,610	<sup>3</sup> 119	<sup>3</sup> 292
1951 <sup>2</sup> .....	17,221	61,244	17,102	60,952	119	292
1950 <sup>2</sup> .....	17,040	53,938	16,645	51,942	395	1,996
1949 <sup>2</sup> .....	16,567	49,812	16,057	47,316	510	2,496
<b>Idaho:</b>						
1954.....	23,895	90,742	23,722	89,507	173	1,235
1953 <sup>2</sup> .....	23,482	87,781	23,218	86,173	264	1,608
1952 <sup>2</sup> .....	20,016	83,165	19,623	81,149	<sup>3</sup> 303	<sup>3</sup> 2,016
1951 <sup>2</sup> .....	19,706	78,837	19,313	76,821	393	2,016
1950 <sup>2</sup> .....	15,832	56,860	15,815	56,784	17	76
1949 <sup>2</sup> .....	15,379	50,754	15,250	50,082	129	672
<b>Wyoming:</b>						
1954.....	6,261	26,890	6,228	26,774	33	116
1953 <sup>2</sup> .....	7,213	33,601	6,981	32,293	232	1,308
1952 <sup>2</sup> .....	5,469	23,806	5,469	23,806	( <sup>4</sup> )	( <sup>4</sup> )
1951 <sup>2</sup> .....	5,874	21,709	5,874	21,709	( <sup>4</sup> )	( <sup>4</sup> )
1950 <sup>2</sup> .....	7,099	22,834	7,082	22,734	17	100
1949 <sup>2</sup> .....	6,255	20,453	6,233	20,353	22	100
<b>Colorado:</b>						
1954.....	65,002	257,286	63,041	247,110	1,961	10,176
1953 <sup>2</sup> .....	60,220	237,137	58,864	230,377	1,356	6,760
1952 <sup>2</sup> .....	59,390	213,998	58,577	209,178	<sup>3</sup> 813	<sup>3</sup> 4,820
1951 <sup>2</sup> .....	58,157	196,178	57,344	191,358	813	4,820
1950 <sup>2</sup> .....	56,508	166,105	55,657	161,773	851	4,332
1949 <sup>2</sup> .....	50,593	149,903	49,565	145,271	1,028	4,632
<b>New Mexico:</b>						
1954.....	15,061	62,718	14,955	62,213	106	505
1953 <sup>2</sup> .....	12,753	57,539	12,737	57,479	16	60
1952 <sup>2</sup> .....	15,384	60,599	15,364	60,515	<sup>3</sup> 20	<sup>3</sup> 84
1951 <sup>2</sup> .....	14,741	50,507	14,721	50,423	20	84
1950 <sup>2</sup> .....	13,529	39,006	13,514	38,950	15	56
1949 <sup>2</sup> .....	8,809	24,786	8,740	24,454	69	332
<b>Arizona:</b>						
1954.....	26,269	111,072	26,090	109,868	179	1,204
1953 <sup>2</sup> .....	24,066	99,998	23,565	97,778	501	2,220
1952 <sup>2</sup> .....	21,343	80,695	20,968	79,103	<sup>3</sup> 375	<sup>3</sup> 1,592
1951 <sup>2</sup> .....	17,790	62,423	17,415	60,831	375	1,592
1950 <sup>2</sup> .....	14,721	49,749	14,695	49,621	26	128
1949 <sup>2</sup> .....	14,257	43,971	14,252	43,947	5	24
<b>Utah:</b>						
1954.....	29,947	120,623	29,364	117,520	583	3,103
1953 <sup>2</sup> .....	35,045	126,890	34,344	123,290	701	3,600
1952 <sup>2</sup> .....	32,561	112,541	32,245	110,853	<sup>3</sup> 316	<sup>3</sup> 1,688
1951 <sup>2</sup> .....	30,377	106,961	30,061	105,273	316	1,688
1950 <sup>2</sup> .....	29,377	86,235	28,445	82,443	932	3,792
1949 <sup>2</sup> .....	29,788	82,790	29,296	80,670	492	2,120
<b>Nevada:</b>						
1954.....	5,717	25,301	5,717	25,301	( <sup>4</sup> )	( <sup>4</sup> )
1953 <sup>2</sup> .....	6,525	24,024	6,525	29,024	( <sup>4</sup> )	( <sup>4</sup> )
1952 <sup>2</sup> .....	3,337	13,681	3,337	13,681	( <sup>4</sup> )	( <sup>4</sup> )
1951 <sup>2</sup> .....	2,906	10,511	2,906	10,511	( <sup>4</sup> )	( <sup>4</sup> )
1950 <sup>2</sup> .....	3,038	11,508	2,856	10,984	182	524
1949 <sup>2</sup> .....	3,240	10,966	3,207	10,862	33	104
<b>Pacific:</b>						
1954.....	1,382,265	6,223,711	1,354,481	6,047,958	27,784	175,753
1953 <sup>2</sup> .....	1,381,395	6,083,714	1,358,954	5,964,162	22,441	119,552
1952 <sup>2</sup> .....	1,283,517	5,346,241	1,260,175	5,236,957	<sup>3</sup> 23,342	<sup>3</sup> 109,284
1951 <sup>2</sup> .....	1,183,671	4,638,686	1,160,329	4,529,402	23,342	109,284
1950 <sup>2</sup> .....	1,037,169	3,654,507	1,018,087	3,575,727	19,082	78,780
1949 <sup>2</sup> .....	941,767	3,199,830	923,120	3,115,634	18,647	84,196

See footnotes at end of table.



## GENERAL SUMMARY

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Table A.—MANUFACTURING EMPLOYMENT FOR DIVISIONS, STATES AND STANDARD METROPOLITAN AREAS: 1954 AND EARLIER YEARS—Continued

(For explanation of column captions see Introduction)

Division, State, standard metropolitan area, and year <sup>1</sup>	Total manufacturing employment		Employment at operating manufacturing establishments		Employment at administrative offices and auxiliaries	
	Number	Payroll (\$1,000)	Number	Payroll (\$1,000)	Number	Payroll (\$1,000)
Pacific—Continued						
Washington:						
1954.....	194,171	854,686	192,354	842,660	1,817	12,026
1953 <sup>2</sup> .....	190,214	823,147	188,708	814,495	1,506	8,652
1952 <sup>2</sup> .....	201,008	813,115	199,559	806,575	1,449	3,540
1951 <sup>2</sup> .....	193,530	760,374	192,081	753,834	1,449	6,540
1950 <sup>2</sup> .....	162,661	566,785	161,047	560,249	1,614	6,536
1949 <sup>2</sup> .....	157,695	519,379	156,399	512,987	1,296	6,392
Oregon:						
1954.....	135,309	566,671	134,343	561,580	966	5,091
1953 <sup>2</sup> .....	132,385	556,923	131,365	550,555	1,020	6,368
1952 <sup>2</sup> .....	137,940	546,482	136,589	539,818	1,351	3,664
1951 <sup>2</sup> .....	133,101	502,749	131,750	496,085	1,351	6,664
1950 <sup>2</sup> .....	119,419	409,068	118,722	406,472	697	2,596
1949 <sup>2</sup> .....	111,846	365,108	111,060	362,300	786	2,808
California:						
1954.....	1,052,785	4,802,353	1,027,784	4,643,717	25,001	158,636
1953 <sup>2</sup> .....	1,058,796	4,703,644	1,038,881	4,599,112	19,915	104,532
1952 <sup>2</sup> .....	944,509	3,986,644	924,027	3,890,564	20,542	396,080
1951 <sup>2</sup> .....	857,040	3,375,563	836,498	3,279,483	20,542	96,080
1950 <sup>2</sup> .....	755,089	2,678,654	738,318	2,609,006	16,771	69,648
1949 <sup>2</sup> .....	672,226	2,315,343	655,661	2,240,347	16,565	74,996
STANDARD METROPOLITAN AREAS—1954 <sup>3</sup>						
Akron.....	90,946	421,245	85,905	389,094	5,041	32,151
Albany—Schenectady—Troy.....	85,882	403,142	71,981	323,518	13,901	79,624
Albuquerque.....	9,378	43,988	9,281	43,525	97	463
Allentown—Bethlehem—Easton.....	94,121	353,338	90,265	323,179	3,856	30,159
Altoona.....	8,460	26,156	8,417	25,939	43	217
Amarillo.....	3,228	12,901	3,147	12,429	81	472
Asheville.....	11,086	35,411	11,071	35,391	15	20
Atlanta.....	79,839	294,965	78,500	287,673	1,339	7,292
Atlantic City.....	6,202	18,428	6,202	18,428	...	...
Auraria.....	27,764	112,133	27,748	112,011	16	122
Austin.....	3,388	11,003	3,388	11,003	...	...
Baltimore.....	190,541	792,400	188,689	780,813	1,852	11,587
Baton Rouge.....	18,909	98,547	18,882	98,399	27	148
Bay City.....	10,691	46,787	10,691	46,787	...	...
Beaumont—Port Arthur.....	25,650	126,452	25,445	125,098	205	1,354
Binghamton.....	42,147	165,368	40,502	159,561	1,645	5,807
Birmingham.....	60,663	253,862	57,762	236,624	2,901	17,238
Boston.....	286,612	1,142,842	280,274	1,106,467	6,338	36,375
Bridgeport.....	67,545	293,654	64,873	279,486	2,672	14,168
Brooklyn.....	20,599	66,348	19,807	63,614	792	2,734
Buffalo.....	203,357	946,591	200,801	933,873	2,556	12,718
Canton.....	56,925	248,897	56,762	247,442	163	1,455
Cedar Rapids.....	18,593	75,970	18,457	75,434	136	536
Charleston, South Carolina.....	9,282	27,150	9,233	26,930	49	220
Charleston, West Virginia.....	25,429	128,159	23,427	116,565	2,002	11,594
Charlotte.....	22,375	73,374	21,635	68,387	740	4,987
Clanton.....	43,019	145,186	42,759	143,569	260	1,617
Chicago.....	983,460	4,513,579	942,819	4,256,393	40,641	257,186
Cincinnati.....	154,519	691,713	151,317	673,358	3,202	18,355
Cleveland.....	301,714	1,445,738	291,037	1,376,234	10,677	69,504
Columbia.....	7,697	20,870	7,691	20,847	6	23
Columbus, Georgia.....	17,976	44,097	17,913	43,788	63	309
Columbus, Ohio.....	74,016	319,530	72,936	314,521	1,080	5,009
Corpus Christi.....	6,910	29,328	6,721	28,241	189	1,087
Dallas.....	76,163	310,597	72,770	290,812	3,393	19,785
Davenport—Rock Island—Moline.....	36,021	160,156	35,284	154,388	737	5,768
Dayton.....	98,328	470,916	97,117	463,019	1,211	7,897
Decatur.....	12,217	53,530	12,184	52,880	33	650
Denver.....	42,583	176,666	40,774	167,289	1,846	9,377
Des Moines.....	22,809	95,717	22,482	94,592	327	1,125
Detroit.....	590,432	3,116,837	538,223	2,773,349	52,209	343,488
Dubuque.....	10,326	42,495	10,322	42,446	4	49
Duluth—Superior.....	12,740	49,739	12,724	49,617	16	122
Durham.....	13,213	40,435	13,076	39,598	137	837
El Paso.....	9,465	29,780	9,232	28,534	233	1,246
Erie.....	40,647	173,049	40,488	171,969	159	1,080
Evansville.....	32,623	137,448	32,562	137,178	61	270
Fall River.....	27,005	74,066	26,990	73,942	15	124
Flint.....	75,414	387,722	75,410	387,681	4	41
Fort Smith.....	6,376	19,472	6,376	19,472	...	...

See footnotes at end of table.

## GENERAL SUMMARY

Table 4A.—MANUFACTURING EMPLOYMENT FOR DIVISIONS, STATES AND STANDARD METROPOLITAN AREAS: 1954 AND EARLIER YEARS—Continued  
(For explanation of column captions see introduction)

Division, State, Standard Metropolitan Area, and year <sup>1</sup>	Total manufacturing employment		Employment in operating manufacturing establishments		Employment at administrative offices and auxiliaries	
	Number	Payroll (\$1,000)	Number	Payroll (\$1,000)	Number	Payroll (\$1,000)
STANDARD METROPOLITAN AREAS—Continued						
Fort Wayne.....	35,187	162,240	33,012	149,898	2,175	12,342
Fort Worth.....	48,837	212,871	48,367	211,122	470	1,749
Fresno.....	12,786	50,923	12,747	50,734	39	189
Gadsden.....	12,760	47,483	12,760	47,483	...	...
Galveston.....	10,910	54,437	10,910	54,437	...	...
Grand Rapids.....	52,372	244,845	52,337	244,270	35	575
Green Bay.....	11,226	48,055	11,071	47,193	155	862
Greensboro—High Point.....	38,588	112,415	37,380	104,332	1,208	8,083
Greenville.....	27,470	78,807	27,349	78,079	121	728
Hamilton—Middletown.....	33,052	164,221	31,764	152,989	1,288	11,232
Hampden—Newport News—Warwick.....	18,275	79,725	18,164	79,393	111	332
Harrisburg.....	32,217	109,550	31,681	106,923	536	2,627
Hartford.....	77,320	343,601	76,146	335,056	1,174	8,545
Houston.....	79,147	372,063	77,756	362,976	1,391	9,087
Huntington—Ashland.....	24,722	100,137	24,178	97,212	544	2,925
Indianapolis.....	103,147	469,429	102,233	464,243	914	5,186
Jackson, Michigan.....	15,806	73,628	15,575	72,444	231	1,184
Jackson, Mississippi.....	7,452	21,900	7,421	21,557	31	343
Jacksonville.....	17,402	58,172	17,343	57,854	59	318
Johnstown.....	23,431	84,113	23,227	82,667	204	1,446
Kalamazoo.....	24,088	108,806	23,948	108,035	140	771
Kansas City.....	118,053	515,791	115,132	497,764	2,921	18,027
Kenosha.....	15,207	66,572	15,113	65,925	94	647
Knoxville.....	34,002	120,099	33,903	119,668	99	431
Lancaster.....	43,681	157,769	42,545	150,619	1,136	7,150
Lansing.....	30,357	155,664	29,394	150,248	963	5,416
Laredo.....	856	1,658	844	1,602	12	56
Lawrence.....	17,384	59,416	17,302	59,071	82	345
Lexington.....	4,420	13,635	4,317	13,156	103	479
Lima.....	14,722	58,038	14,691	57,831	31	207
Lincoln.....	8,681	32,342	8,681	32,342	...	...
Little Rock—North Little Rock.....	11,784	34,538	11,626	33,889	158	649
Lorain—Elyria.....	30,528	138,576	30,096	136,363	432	2,213
Los Angeles—Long Beach.....	647,084	2,983,411	639,802	2,936,808	7,282	46,603
Louisville.....	88,539	375,510	84,653	354,192	3,886	21,318
Lowell.....	19,543	62,577	19,459	62,060	84	517
Lubbock.....	2,837	10,231	2,818	10,134	19	97
Macon.....	10,770	31,441	10,542	30,137	228	1,304
Madison.....	13,911	59,423	13,355	55,714	556	3,709
Manchester.....	18,702	56,999	18,698	56,947	4	52
Memphis.....	42,512	156,720	41,804	152,582	708	4,138
Miami.....	24,317	80,212	24,229	79,470	88	742
Milwaukee.....	180,473	837,473	175,802	809,880	4,671	27,593
Minneapolis—St. Paul.....	139,234	610,276	134,208	582,387	5,026	27,889
Mobile.....	15,418	56,957	15,381	56,703	37	254
Montgomery.....	6,281	17,753	6,281	17,753	...	...
Muncie.....	17,459	79,805	17,453	79,788	6	17
Nashville.....	32,691	110,612	30,499	104,061	2,192	6,551
New Bedford.....	27,903	82,772	27,852	83,549	51	223
New Britain—Meriden.....	44,141	179,469	43,950	178,017	191	1,452
New Haven.....	46,592	183,288	46,566	183,239	26	49
New York.....	53,777	196,082	53,313	193,617	464	2,445
New York—Northeastern New Jersey.....	1,832,703	7,779,531	1,731,977	7,095,016	100,726	684,215
Northampton.....	15,723	55,306	15,464	54,156	259	1,150
Ogden.....	3,079	11,712	2,937	11,029	142	683
Oklahoma City.....	16,343	63,321	15,899	60,893	444	2,422
Omaha.....	33,633	134,594	30,586	121,924	3,047	12,670
Oshkosh.....	4,318	15,547	4,125	14,451	193	1,706
Pasadena.....	41,229	185,772	37,779	167,348	3,450	18,424
Philadelphia.....	564,172	2,403,375	547,042	2,291,639	17,130	111,736
Phoenix.....	15,831	67,215	15,717	66,438	114	777
Pittsburgh.....	331,570	1,557,667	303,408	1,364,413	28,162	193,254
Portland, Maine.....	16,153	75,829	15,499	71,520	654	4,309
Portland, Oregon.....	13,161	45,884	13,125	45,626	36	258
Providence.....	57,453	244,096	56,729	239,997	724	4,099
Providence.....	131,896	460,354	130,825	453,830	1,071	6,524
Pueblo.....	8,675	36,199	8,675	36,199	...	...
Racine.....	22,695	103,984	22,024	99,999	671	3,995
Riverside.....	6,122	6,041	17,156	17,009	81	147
Rochester.....	49,436	169,157	49,130	167,369	306	1,782

See footnotes at end of table.

## GENERAL SUMMARY

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Table -A.—MANUFACTURING EMPLOYMENT FOR DIVISIONS, STATES AND STANDARD METROPOLITAN AREAS: 1954 AND EARLIER YEARS—Continued

(For explanation of column captions see Introduction)

Division, State, standard metropolitan area, and year <sup>1</sup>	Total manufacturing employment		Employment at operating manufacturing establishments		Employment at administrative offices and auxiliaries	
	Number	Payroll (\$1,000)	Number	Payroll (\$1,000)	Number	Payroll (\$1,000)
STANDARD METROPOLITAN AREAS—Continued						
Richmond.....	37,546	136,017	36,250	128,569	1,296	7,448
Roanoke.....	12,759	42,746	12,732	42,593	27	153
Rochester.....	115,180	531,822	111,385	508,033	3,795	23,789
Rockford.....	38,194	177,568	38,194	177,568	...	...
Sacramento.....	10,920	46,875	10,907	46,787	13	88
Saginaw.....	26,693	124,865	26,625	124,462	68	403
St. Joseph.....	11,268	42,791	11,207	42,574	61	217
St. Louis.....	264,117	1,131,488	251,766	1,060,335	12,351	71,153
Salt Lake City.....	15,511	62,362	15,110	60,156	401	2,206
San Angelo.....	1,865	4,741	1,865	4,741	...	...
San Antonio.....	17,935	54,630	17,894	54,372	41	258
San Bernardino—Riverside—Ontario.....	24,542	103,472	21,158	87,345	3,384	16,127
San Diego.....	48,137	224,969	47,731	221,636	406	3,313
San Francisco—Oakland.....	186,206	881,312	173,135	793,165	13,071	88,147
San Jose.....	28,434	118,868	27,942	116,213	492	2,655
Savannah.....	13,412	47,774	13,323	47,275	89	499
Scranton.....	31,561	94,655	31,478	94,351	83	304
Seattle.....	78,910	357,369	78,447	354,664	463	2,705
Shreveport.....	8,786	32,168	8,037	28,592	749	3,576
Sioux City.....	9,421	36,739	9,401	36,651	20	88
Sioux Falls.....	5,406	21,691	5,402	21,656	4	35
South Bend.....	43,622	201,674	43,622	201,674	...	...
Spokane.....	13,829	60,765	13,674	59,851	155	914
Springfield, Illinois.....	12,857	53,414	12,816	53,256	41	158
Springfield, Missouri.....	6,695	20,775	6,682	20,697	13	78
Springfield, Ohio.....	16,823	70,435	16,823	70,435	...	...
Springfield—Holyoke.....	74,496	303,873	74,350	302,543	146	1,330
Stamford—Norwalk.....	30,871	132,743	30,372	130,404	499	2,339
Stockton.....	11,145	45,631	11,033	45,205	112	426
Syracuse.....	60,355	257,058	57,440	242,617	2,915	14,441
Tacoma.....	17,534	77,270	17,052	72,643	482	4,627
Tampa—St. Petersburg.....	22,907	70,924	22,873	70,750	34	174
Terre Haute.....	10,455	40,821	10,419	40,677	36	144
Toledo.....	64,543	319,015	61,123	296,607	3,420	22,408
Topeka.....	6,174	24,060	6,010	23,711	164	349
Trenton.....	39,517	165,971	38,289	157,238	1,228	8,733
Tucson.....	4,548	20,134	4,548	20,134	...	...
Tulsa.....	30,390	132,683	28,895	124,413	1,495	8,270
Utica—Rome.....	43,125	169,169	42,941	168,193	184	976
Waco.....	7,846	27,257	7,715	26,521	131	736
Washington, D. C.....	31,732	138,202	30,373	131,088	1,359	7,114
Waterbury.....	43,029	184,443	42,186	179,067	843	5,376
Waterloo.....	16,656	72,951	16,652	72,904	4	47
Wheeling—Steubenville.....	51,298	215,397	49,687	205,685	1,611	9,712
Wichita.....	53,260	237,765	53,190	237,206	70	559
Wichita Falls.....	3,026	11,073	3,015	11,012	11	61
Wilkes—Barre—Hazleton.....	37,262	98,864	36,902	97,448	360	1,416
Wilmington.....	53,089	287,695	37,919	170,700	15,170	116,995
Winston—Salem.....	31,771	107,369	29,930	96,515	1,841	10,854
Worcester.....	50,685	203,884	50,197	201,435	488	2,449
York.....	45,390	162,153	45,275	161,621	115	532
Youngstown.....	106,275	483,973	105,646	479,748	629	4,225

<sup>1</sup>Employment data for administrative offices and auxiliaries on a State basis are not available for the years prior to 1949. Similar data for standard metropolitan areas are available only for 1954.

<sup>2</sup>The employment figures for operating manufacturing establishments for 1949-1953 are estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volume for this period. The employment figures for administrative and auxiliary units were compiled chiefly from Bureau of Old-Age and Survivors Insurance records and are not strictly comparable with the figures for these units that were collected by the Bureau of the Census for the year 1954.

<sup>3</sup>The 1951 data are shown for 1952 since auxiliary and administrative unit data were not collected in 1952. In some instances, the figures have been withheld because the estimates did not meet publication standards.

<sup>4</sup>The employment figures for administrative and auxiliary units are included with those for operating manufacturing establishments.

<sup>5</sup>The definitions of the standard metropolitan areas are shown on pages 42-44.



## STANDARD METROPOLITAN AREAS

(As defined by the Bureau of the Budget)

- AKRON STANDARD METROPOLITAN AREA—Coextensive with Summit County, Ohio.
- ALBANY-SCHENECTADY-TROY STANDARD METROPOLITAN AREA—Consists of Albany, Rensselaer, and Schenectady Counties, N. Y.
- ALBUQUERQUE STANDARD METROPOLITAN AREA—Coextensive with Bernalillo County, N. Mex.
- ALLENTOWN-BETHLEHEM-EASTON STANDARD METROPOLITAN AREA—Consists of Lehigh and Northampton Counties, Pa.; and Warren County, N. J.
- ALTOONA STANDARD METROPOLITAN AREA—Coextensive with Blair County, Pa.
- AMARILLO STANDARD METROPOLITAN AREA—Consists of Potter and Randall Counties, Tex.
- ASHEVILLE STANDARD METROPOLITAN AREA—Coextensive with Buncombe County, N. C.
- ATLANTA STANDARD METROPOLITAN AREA—Consists of Cobb, De Kalb, and Fulton Counties, Ga.
- ATLANTIC CITY STANDARD METROPOLITAN AREA—Coextensive with Atlantic County, N. J.
- AUGUSTA STANDARD METROPOLITAN AREA—Consists of Richmond County, Ga.; and Aiken County, S. C.
- AUSTIN STANDARD METROPOLITAN AREA—Coextensive with Travis County, Tex.
- BALTIMORE STANDARD METROPOLITAN AREA—Consists of Baltimore City, Baltimore and Anne Arundel Counties, Md.
- BATON ROUGE STANDARD METROPOLITAN AREA—Coextensive with East Baton Rouge Parish, La.
- BAY CITY STANDARD METROPOLITAN AREA—Coextensive with Bay County, Mich.
- BEAUMONT-PORT ARTHUR STANDARD METROPOLITAN AREA—Coextensive with Jefferson County, Tex.
- BINGHAMTON STANDARD METROPOLITAN AREA—Coextensive with Broome County, N. Y.
- BIRMINGHAM STANDARD METROPOLITAN AREA—Coextensive with Jefferson County, Ala.
- BOSTON STANDARD METROPOLITAN AREA—Consists of all of Suffolk County; Cambridge, Everett, Malden, Medford, Melrose, Newton, Somerville, Waltham, and Woburn Cities and Arlington, Ashland, Bedford, Belmont, Burlington, Concord, Framingham, Lexington, Lincoln, Natick, North Reading, Reading, Stoneham, Wakefield, Watertown, Wayland, Weston, Wilmington, and Winchester Towns in Middlesex County; Beverly, Lynn, Peabody, and Salem Cities and Danvers, Hamilton, Lynnfield, Manchester, Marblehead, Middleton, Nahant, Saugus, Swampscott, and Wenham Towns in Essex County; Quincy City and Braintree, Brookline, Canton, Cohasset, Dedham, Dover, Medfield, Milton, Needham, Norwood, Randolph, Sharon, Walpole, Wellesley, Westwood, and Weymouth Towns in Norfolk County; and Hingham and Hull Towns in Plymouth County, Mass.
- BRIDGEPORT STANDARD METROPOLITAN AREA—Consists of Bridgeport City and Fairfield, Stratford, and Trumbull Towns in Fairfield County, and Milford Town in New Haven County, Conn.
- BROCKTON STANDARD METROPOLITAN AREA—Consists of Brockton City and Abington, Bridgewater, East Bridgewater, Rockland, West Bridgewater, and Whitman Towns in Plymouth County; Avon, Holbrook, and Stoughton Towns in Norfolk County; and Easton Town in Bristol County, Mass.
- BUFFALO STANDARD METROPOLITAN AREA—Consists of Erie and Niagara Counties, N. Y.
- CANTON STANDARD METROPOLITAN AREA—Coextensive with Stark County, Ohio.
- CEDAR RAPIDS STANDARD METROPOLITAN AREA—Coextensive with Linn County, Iowa.
- CHARLESTON (S. C.) STANDARD METROPOLITAN AREA—Coextensive with Charleston County, S. C.
- CHARLESTON (W. Va.) STANDARD METROPOLITAN AREA—Consists of Fayette and Kanawha Counties, W. Va.
- CHARLOTTE STANDARD METROPOLITAN AREA—Coextensive with Mecklenburg County, N. C.
- CHATTANOOGA STANDARD METROPOLITAN AREA—Consists of Hamilton County, Tenn.; and Walker County, Ga.
- CHICAGO STANDARD METROPOLITAN AREA—Consists of Cook, Du Page, Kane, Lake, and Will Counties, Ill.; and Lake County, Ind.
- CINCINNATI STANDARD METROPOLITAN AREA—Consists of Hamilton County, Ohio; and Campbell and Kenton Counties, Ky.
- CLEVELAND STANDARD METROPOLITAN AREA—Consists of Cuyahoga and Lake Counties, Ohio.
- COLUMBIA STANDARD METROPOLITAN AREA—Coextensive with Richland County, S. C.
- COLUMBUS (GA.) STANDARD METROPOLITAN AREA—Consists of Chattahoochee and Muscogee Counties, Ga.; and Russell County, Ala.
- COLUMBUS (OHIO) STANDARD METROPOLITAN AREA—Coextensive with Franklin County, Ohio.
- CORPUS CHRISTI STANDARD METROPOLITAN AREA—Coextensive with Nueces County, Tex.
- DALLAS STANDARD METROPOLITAN AREA—Coextensive with Dallas County, Tex.
- DAVENPORT-ROCK ISLAND-MOLINE STANDARD METROPOLITAN AREA—Consists of Rock Island County, Ill.; and Scott County, Iowa.
- DAYTON STANDARD METROPOLITAN AREA—Consists of Greene and Montgomery Counties, Ohio.
- DECATUR STANDARD METROPOLITAN AREA—Coextensive with Macon County, Ill.
- DENVER STANDARD METROPOLITAN AREA—Consists of Adams, Arapahoe, Denver, and Jefferson Counties, Colo.
- DES MOINES STANDARD METROPOLITAN AREA—Coextensive with Polk County, Iowa.
- DETROIT STANDARD METROPOLITAN AREA—Consists of Macomb, Oakland, and Wayne Counties, Mich.
- DUBUQUE STANDARD METROPOLITAN AREA—Coextensive with Dubuque County, Iowa.
- DULUTH-SUPERIOR STANDARD METROPOLITAN AREA—Consists of St. Louis County, Minn.; and Douglas County, Wis.
- DURHAM STANDARD METROPOLITAN AREA—Coextensive with Durham County, N. C.
- EL PASO STANDARD METROPOLITAN AREA—Coextensive with El Paso County, Tex.
- ERIE STANDARD METROPOLITAN AREA—Coextensive with Erie County, Pa.
- EVANSVILLE STANDARD METROPOLITAN AREA—Coextensive with Vanderburgh County, Ind.
- FALL RIVER STANDARD METROPOLITAN AREA—Consists of Fall River City and Somerset, Swansea, and Westport Towns in Bristol County, Mass.; and Tiverton Town in Newport County, R. I.
- FLINT STANDARD METROPOLITAN AREA—Coextensive with Genesee County, Mich.
- FORT SMITH STANDARD METROPOLITAN AREA—Coextensive with Sebastian County, Ark.
- FORT WAYNE STANDARD METROPOLITAN AREA—Coextensive with Allen County, Ind.
- FORT WORTH STANDARD METROPOLITAN AREA—Coextensive with Tarrant County, Tex.
- FRESNO STANDARD METROPOLITAN AREA—Coextensive with Fresno County, Calif.
- GADSDEN STANDARD METROPOLITAN AREA—Coextensive with Etowah County, Ala.
- GALVESTON STANDARD METROPOLITAN AREA—Coextensive with Galveston County, Tex.
- GRAND RAPIDS STANDARD METROPOLITAN AREA—Coextensive with Kent County, Mich.
- GREEN BAY STANDARD METROPOLITAN AREA—Coextensive with Brown County, Wis.
- GREENSBORO-HIGH POINT STANDARD METROPOLITAN AREA—Coextensive with Guilford County, N. C.
- GREENVILLE STANDARD METROPOLITAN AREA—Coextensive with Greenville County, S. C.
- HAMILTON-MIDDLETOWN STANDARD METROPOLITAN AREA—Coextensive with Butler County, Ohio.
- HAMPTON-NEWPORT NEWS-WARWICK STANDARD METROPOLITAN AREA—Consists of Hampton, Newport News, and Warwick Cities, Va.
- HARRISBURG STANDARD METROPOLITAN AREA—Consists of Cumberland and Dauphin Counties, Pa.
- HARTFORD STANDARD METROPOLITAN AREA—Consists of Hartford City and Avon, Bloomfield, East Hartford, Farmington, Glastonbury, Manchester, Newington, Rocky Hill, Simsbury, South Windsor, West Hartford, Wethersfield, and Windsor Towns in Hartford County, Conn.
- HOUSTON STANDARD METROPOLITAN AREA—Coextensive with Harris County, Tex.
- HUNTINGTON-ASHLAND STANDARD METROPOLITAN AREA—Consists of Cabell and Wayne Counties, W. Va.; Boyd County, Ky.; and Lawrence County, Ohio.
- INDIANAPOLIS STANDARD METROPOLITAN AREA—Coextensive with Marion County, Ind.
- JACKSON (MICH.) STANDARD METROPOLITAN AREA—Coextensive with Jackson County, Mich.
- JACKSON (MISS.) STANDARD METROPOLITAN AREA—Coextensive with Hinds County, Miss.
- JACKSONVILLE STANDARD METROPOLITAN AREA—Coextensive with Duval County, Fla.
- JOHNSTOWN STANDARD METROPOLITAN AREA—Consists of Cambria and Somerset Counties, Pa.
- KALAMAZOO STANDARD METROPOLITAN AREA—Coextensive with Kalamazoo County, Mich.
- KANSAS CITY STANDARD METROPOLITAN AREA—Consists of Johnson and Wyandotte Counties, Kans.; and Clay and Jackson Counties, Mo.
- KENOSHA STANDARD METROPOLITAN AREA—Coextensive with Kenosha County, Wis.
- KNOXVILLE STANDARD METROPOLITAN AREA—Consists of Anderson, Blount, and Knox Counties, Tenn.
- LANCASTER STANDARD METROPOLITAN AREA—Coextensive with Lancaster County, Pa.
- LANSING STANDARD METROPOLITAN AREA—Coextensive with Ingham County, Mich.
- LAREDO STANDARD METROPOLITAN AREA—Coextensive with Webb County, Tex.
- LAWRENCE STANDARD METROPOLITAN AREA—Consists of Lawrence City and Andover, Methuen, and North Andover Towns in Essex County, Mass.
- LEXINGTON STANDARD METROPOLITAN AREA—Coextensive with Fayette County, Ky.

## STANDARD METROPOLITAN AREAS

- LIMA STANDARD METROPOLITAN AREA—Coextensive with Allen County, Ohio
- LINCOLN STANDARD METROPOLITAN AREA—Coextensive with Lancaster County, Nebr.
- LITTLE ROCK-NORTH LITTLE ROCK STANDARD METROPOLITAN AREA—Coextensive with Pulaski County, Ark.
- LORAIN-ELYRIA STANDARD METROPOLITAN AREA—Coextensive with Lorain County, Ohio
- LOS ANGELES-LONG BEACH STANDARD METROPOLITAN AREA—Consists of Los Angeles and Orange Counties, Calif.
- LOUISVILLE STANDARD METROPOLITAN AREA—Consists of Jefferson County, Ky.; and Clark and Floyd Counties, Ind.
- LOWELL STANDARD METROPOLITAN AREA—Consists of Lowell City and Billerica, Chelmsford, Dracut, and Tewksbury Towns in Middlesex County, Mass.
- LUBBOCK STANDARD METROPOLITAN AREA—Coextensive with Lubbock County, Tex.
- MACON STANDARD METROPOLITAN AREA—Consists of Bibb and Houston Counties, Ga.
- MADISON STANDARD METROPOLITAN AREA—Coextensive with Dane County, Wis.
- MANCHESTER STANDARD METROPOLITAN AREA—Consists of Manchester City and Goffstown Town in Hillsborough County, N. H.
- MEMPHIS STANDARD METROPOLITAN AREA—Coextensive with Shelby County, Tenn.
- MIAMI STANDARD METROPOLITAN AREA—Coextensive with Dade County, Fla.
- MILWAUKEE STANDARD METROPOLITAN AREA—Coextensive with Milwaukee County, Wis.
- MINNEAPOLIS-ST. PAUL STANDARD METROPOLITAN AREA—Consists of Anoka, Dakota, Hennepin, and Ramsey Counties, Minn.
- MOBILE STANDARD METROPOLITAN AREA—Coextensive with Mobile County, Ala.
- MONTGOMERY STANDARD METROPOLITAN AREA—Coextensive with Montgomery County, Ala.
- MUNCIE STANDARD METROPOLITAN AREA—Coextensive with Delaware County, Ind.
- NASHVILLE STANDARD METROPOLITAN AREA—Coextensive with Davidson County, Tenn.
- NEW BEDFORD STANDARD METROPOLITAN AREA—Consists of New Bedford City and Acushnet, Dartmouth, and Fairhaven Towns in Bristol County, Mass.
- NEW BRITAIN-BRISTOL STANDARD METROPOLITAN AREA—Consists of Bristol and New Britain Cities and Berlin, Plainville, and Southington Towns in Hartford County; and Plymouth Town in Litchfield County, Conn.
- NEW HAVEN STANDARD METROPOLITAN AREA—Consists of New Haven City and Branford, East Haven, Hamden, North Haven, Orange, West Haven and Woodbridge Towns in New Haven County, Conn.
- NEW ORLEANS STANDARD METROPOLITAN AREA—Consists of Jefferson, Orleans, and St. Bernard Parishes, La.
- NEW YORK-NORTHEASTERN NEW JERSEY STANDARD METROPOLITAN AREA—Consists of New York City (Bronx, Kings, New York, Queens, and Richmond Counties) and Nassau, Rockland, Suffolk, and Westchester Counties, N. Y.; and Bergen, Essex, Hudson, Middlesex, Morris, Passaic, Somerset, and Union Counties, N. J.
- NORFOLK-PORTSMOUTH STANDARD METROPOLITAN AREA—Consists of Norfolk and Princess Anne Counties, and the cities of Norfolk, South Norfolk, Portsmouth, and Virginia Beach, Va.
- ODGEN STANDARD METROPOLITAN AREA—Coextensive with Weber County, Utah
- OKLAHOMA CITY STANDARD METROPOLITAN AREA—Coextensive with Oklahoma County, Okla.
- OMAHA STANDARD METROPOLITAN AREA—Consists of Douglas and Sarpy Counties, Nebr.; and Pottawattamie County, Iowa
- ORLANDO STANDARD METROPOLITAN AREA—Coextensive with Orange County, Fla.
- PEORIA STANDARD METROPOLITAN AREA—Consists of Peoria and Tazewell Counties, Ill.
- PHILADELPHIA STANDARD METROPOLITAN AREA—Consists of Bucks, Chester, Delaware, Montgomery, and Philadelphia Counties, Pa.; and Burlington, Camden, and Gloucester Counties, N. J.
- PHOENIX STANDARD METROPOLITAN AREA—Coextensive with Maricopa County, Ariz.
- PITTSBURGH STANDARD METROPOLITAN AREA—Consists of Allegheny, Beaver, Washington, and Westmoreland Counties, Pa.
- PITTSFIELD STANDARD METROPOLITAN AREA—Consists of Pittsfield City and Dalton, Lenox, and Lee Towns in Berkshire County, Mass.
- PORTLAND (MAINE) STANDARD METROPOLITAN AREA—Consists of Portland, South Portland, and Westbrook Cities and Cape Elizabeth and Falmouth Towns in Cumberland County, Me.
- PORTLAND (OREG.) STANDARD METROPOLITAN AREA—Consists of Clackamas, Multnomah, and Washington Counties, Oreg.; and Clark County, Wash.
- PROVIDENCE STANDARD METROPOLITAN AREA—Consists of Central Falls, Cranston, Pawtucket, Providence, and Woonsocket Cities and Cumberland, East Providence, Johnston, Lincoln, North Providence, North Smithfield, and Smithfield Towns in Providence County; North Kingstown Town in Washington County; Warwick City and East Greenwich, and West Warwick Towns in Kent County; and all of Bristol County, R. I. Also Attleboro City and North Attleborough, and Seekonk Towns in Bristol County; Bellingham, Franklin, Plainville,
- and Wrentham Towns in Norfolk County; and Blackstone and Millville Towns in Worcester County, Mass.
- PUEBLO STANDARD METROPOLITAN AREA—Coextensive with Pueblo County, Colo.
- RACINE STANDARD METROPOLITAN AREA—Coextensive with Racine County, Wis.
- RALEIGH STANDARD METROPOLITAN AREA—Coextensive with Wake County, N. C.
- READING STANDARD METROPOLITAN AREA—Coextensive with Berks County, Pa.
- RICHMOND STANDARD METROPOLITAN AREA—Consists of Richmond City and Chesterfield, and Henrico Counties, Va.
- ROANOKE STANDARD METROPOLITAN AREA—Consists of Roanoke City and Roanoke County, Va.
- ROCHESTER STANDARD METROPOLITAN AREA—Coextensive with Monroe County, N. Y.
- ROCKFORD STANDARD METROPOLITAN AREA—Coextensive with Winnebago County, Ill.
- SACRAMENTO STANDARD METROPOLITAN AREA—Coextensive with Sacramento County, Calif.
- SAGINAW STANDARD METROPOLITAN AREA—Coextensive with Saginaw County, Mich.
- ST. JOSEPH STANDARD METROPOLITAN AREA—Coextensive with Buchanan County, Mo.
- ST. LOUIS STANDARD METROPOLITAN AREA—Consists of St. Louis City and St. Charles and St. Louis Counties, Mo.; and Madison and St. Clair Counties, Ill.
- SALT LAKE CITY STANDARD METROPOLITAN AREA—Coextensive with Salt Lake County, Utah
- SAN ANGELO STANDARD METROPOLITAN AREA—Coextensive with Tom Green County, Tex.
- SAN ANTONIO STANDARD METROPOLITAN AREA—Coextensive with Bexar County, Tex.
- SAN BERNARDINO-RIVERSIDE-ONTARIO STANDARD METROPOLITAN AREA—Consists of San Bernardino and Riverside Counties, Calif.
- SAN DIEGO STANDARD METROPOLITAN AREA—Coextensive with San Diego County, Calif.
- SAN FRANCISCO-OAKLAND STANDARD METROPOLITAN AREA—Consists of Alameda, Contra Costa, Marin, San Francisco, San Mateo, and Solano Counties, Calif.
- SAN JOSE STANDARD METROPOLITAN AREA—Coextensive with Santa Clara County, Calif.
- SAVANNAH STANDARD METROPOLITAN AREA—Coextensive with Chatham County, Ga.
- SCRANTON STANDARD METROPOLITAN AREA—Coextensive with Lackawanna County, Pa.
- SEATTLE STANDARD METROPOLITAN AREA—Coextensive with King County, Wash.
- SHREVEPORT STANDARD METROPOLITAN AREA—Consists of Caddo and Bossier Parishes, La.
- SIoux CITY STANDARD METROPOLITAN AREA—Coextensive with Woodbury County, Iowa
- SIoux FALLS STANDARD METROPOLITAN AREA—Coextensive with Minnehaha County, S. Dak.
- SOUTH BEND STANDARD METROPOLITAN AREA—Coextensive with St. Joseph County, Ind.
- SPOKANE STANDARD METROPOLITAN AREA—Coextensive with Spokane County, Wash.
- SPRINGFIELD (ILL.) STANDARD METROPOLITAN AREA—Coextensive with Sangamon County, Ill.
- SPRINGFIELD (MO.) STANDARD METROPOLITAN AREA—Coextensive with Greene County, Mo.
- SPRINGFIELD (OHIO) STANDARD METROPOLITAN AREA—Coextensive with Clark County, Ohio
- SPRINGFIELD-HOLYOKE STANDARD METROPOLITAN AREA—Consists of Chicopee, Holyoke, Springfield, and Westfield Cities and Agawam, East Longmeadow, Longmeadow, Ludlow, West Springfield, and Wilbraham Towns in Hampden County; Northampton City and Easthampton, and South Hadley Towns in Hampshire County, Mass. Also Enfield Town in Hartford County, Conn.
- STAMFORD-NORWALK STANDARD METROPOLITAN AREA—Consists of Norwalk and Stamford Cities and Darien, Greenwich, New Canaan, and Westport Towns in Fairfield County, Conn.
- STOCKTON STANDARD METROPOLITAN AREA—Coextensive with San Joaquin County, Calif.
- SYRACUSE STANDARD METROPOLITAN AREA—Coextensive with Onondaga County, N. Y.
- TACOMA STANDARD METROPOLITAN AREA—Coextensive with Pierce County, Wash.
- TAMPA-ST. PETERSBURG STANDARD METROPOLITAN AREA—Consists of Hillsborough and Pinellas Counties, Fla.
- TERRE HAUTE STANDARD METROPOLITAN AREA—Coextensive with Vigo County, Ind.
- TOLEDO STANDARD METROPOLITAN AREA—Coextensive with Lucas County, Ohio
- TOPEKA STANDARD METROPOLITAN AREA—Coextensive with Shawnee County, Kans.
- TRENTON STANDARD METROPOLITAN AREA—Coextensive with Mercer County, N. J.
- TUCSON STANDARD METROPOLITAN AREA—Coextensive with Pima County, Ariz.
- TULSA STANDARD METROPOLITAN AREA—Coextensive with Tulsa County, Okla.
- UTICA-ROME STANDARD METROPOLITAN AREA—Consists of Herkimer and Oneida Counties, N. Y.

## STANDARD METROPOLITAN AREAS

WACO STANDARD METROPOLITAN AREA—Coextensive with McLennan County, Tex.

WASHINGTON STANDARD METROPOLITAN AREA—Consists of the District of Columbia; Alexandria and Falls Church Cities and Arlington and Fairfax Counties, Va.; Montgomery and Prince Georges Counties, Md.

WATERBURY STANDARD METROPOLITAN AREA—Consists of Waterbury City, Naugatuck Borough, and Beacon Falls, Cheshire, Middlebury, Prospect, and Wolcott Towns in New Haven County; and Thomastown and Watertown Towns in Litchfield County, Conn.

WATERLOO STANDARD METROPOLITAN AREA—Coextensive with Blackhawk County, Iowa

WHEELING-STEUBENVILLE STANDARD METROPOLITAN AREA—Consists of Brooke, Hancock, Marshall, and Ohio Counties, W. Va.; and Belmont and Jefferson Counties, Ohio

WICHITA STANDARD METROPOLITAN AREA—Coextensive with Sedgwick County, Kans.

WICHITA FALLS STANDARD METROPOLITAN AREA—Coextensive with Wichita County, Tex.

WILKES-BARRE-HAZLETON STANDARD METROPOLITAN AREA—Coextensive with Luzerne County, Pa.

WILMINGTON STANDARD METROPOLITAN AREA—Consists of New Castle County, Del.; and Salem County, N. J.

WINSTON-SALEM STANDARD METROPOLITAN AREA—Coextensive with Forsyth County, N. C.

WORCESTER STANDARD METROPOLITAN AREA—Consists of Worcester City and Auburn, East Brookfield, Grafton, Holden, Leicester, Millbury, Northborough, North Brookfield, Shrewsbury, Spencer, Westborough, and West Boylston Towns in Worcester County, Mass.

YORK STANDARD METROPOLITAN AREA—Coextensive with York County, Pa.

YOUNGSTOWN STANDARD METROPOLITAN AREA—Consists of Mahoning and Trumbull Counties, Ohio, and Mercer County, Pa.



## GENERAL SUMMARY

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Table 4-B.—GENERAL STATISTICS FOR ALL OPERATING MANUFACTURING ESTABLISHMENTS BY DIVISIONS, STATES, AND STANDARD METROPOLITAN AREAS:  
1954 AND EARLIER YEARS

(For explanation of column captions see Introduction)

Division, State, Standard Metropolitan Area, and Year	Establish- ments, number	All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new (\$1,000)	
		Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
United States:									
1954 <sup>1</sup>		15,651,294	62,993,321	12,373,030	24,341,239	44,595,457	116,912,526	7,818,155	
1953 <sup>2</sup>		16,693,076	66,492,872	13,500,934	27,065,569	48,979,102	121,659,136	7,541,606	
1952 <sup>2</sup>		15,732,722	59,598,225	12,706,032	25,617,613	43,763,640	109,162,079	7,525,923	
1951 <sup>2</sup>		15,309,638	54,741,463	12,508,914	25,263,764	40,654,832	102,085,814	7,205,059	
1950 <sup>2</sup>		14,467,149	46,642,786	11,778,803	23,716,536	34,600,025	89,749,765	5,110,262	
1949 <sup>2</sup>	(NA)	13,566,949	41,482,008	11,016,301	21,769,728	30,253,971	75,366,527	5,066,941	
1947	20,807	14,293,963	39,695,558	11,917,884	24,316,465	30,243,971	74,290,475	5,998,099	
1939	173,802	9,527,306	12,706,102	7,808,205	(NA)	8,997,515	24,487,304		
1929	206,663	9,659,742	14,284,282	8,369,705		10,884,919	30,591,435		
1919	270,231	9,836,801	12,426,902	8,464,916		9,664,009	23,841,624	(NA)	
1909	264,810	7,012,066	4,105,470	6,261,736		3,205,213	8,160,075		
1899	204,750	4,850,019	2,258,654	4,501,919		1,892,574	4,646,981		
New England:									
1954 <sup>1</sup>	24,625	1,431,300	5,356,133	1,154,083	2,275,672	3,858,699	9,128,281	424,264	
1953 <sup>2</sup>		1,571,308	5,873,319	1,294,707	2,618,591	4,396,383	9,904,786	387,721	
1952 <sup>2</sup>		1,482,089	5,318,226	1,219,812	2,489,503	3,983,283	9,023,974	419,368	
1951 <sup>2</sup>		(NA)	1,475,391	5,040,566	1,226,985	2,510,621	3,816,755	8,469,050	429,678
1950 <sup>2</sup>		1,418,010	4,337,683	1,181,769	2,380,143	3,288,325	7,417,675		
1949 <sup>2</sup>		1,323,249	3,839,403	1,097,320	2,149,529	2,849,130	6,299,364	(NA)	
1947	20,256	1,475,162	3,940,122	1,248,839	(NA)	3,054,437	6,798,114	418,580	
1939	15,201	1,121,152	1,402,144	947,412		1,018,683	2,414,268		
1929	18,272	1,245,868	1,732,759	1,098,514		1,346,391	3,239,798		
1919	24,552	1,509,093	1,765,285	1,347,531		1,431,687	3,221,328	(NA)	
1909	25,351	1,187,987	669,914	1,101,290		557,630	1,193,767		
1899	22,576	897,305	421,070	851,903		367,675	756,311		
Maine:									
1954 <sup>1</sup>	3,015	104,025	322,158	91,092	180,691	260,047	565,260	58,935	
1953 <sup>2</sup>		109,351	350,777	96,733	197,274	288,390	583,855	38,593	
1952 <sup>2</sup>		107,590	320,517	96,268	192,335	268,621	525,514	31,283	
1951 <sup>2</sup>		(NA)	106,871	305,444	95,753	191,147	255,732	520,998	39,635
1950 <sup>2</sup>		108,050	280,357	95,202	188,378	229,006	454,278		
1949 <sup>2</sup>		101,458	256,185	90,693	177,827	209,563	407,121	(NA)	
1947	1,633	100,118	233,851	90,323	(NA)	199,085	429,540	35,055	
1939	1,118	82,184	83,479	74,040		67,340	150,588		
1929	1,568	76,799	90,300	70,159		74,200	174,385		
1919	2,834	96,082	111,203	88,251		93,761	201,444	(NA)	
1909	3,546	84,815	43,429	79,955		37,632	78,928		
1899	2,878	73,017	28,781	69,914		25,731	51,749		
New Hampshire:									
1954 <sup>1</sup>	1,609	77,071	245,346	65,987	128,465	190,760	408,826	18,432	
1953 <sup>2</sup>		87,306	270,025	77,589	152,822	221,870	427,126	14,581	
1952 <sup>2</sup>		83,856	254,307	74,062	141,960	206,676	413,181	19,115	
1951 <sup>2</sup>		(NA)	85,030	243,884	75,466	140,043	197,658	407,474	25,440
1950 <sup>2</sup>		80,462	212,507	71,789	134,482	174,920	353,710	(NA)	
1949 <sup>2</sup>		76,975	191,437	67,639	123,465	154,303	309,636		
1947	1,124	74,752	177,479	66,448	(NA)	145,324	306,932	24,010	
1939	772	61,224	65,154	55,434		52,394	104,153		
1929	1,075	71,233	85,264	65,511		70,514	147,132		
1919	1,451	88,726	92,330	82,917		79,136	167,329	(NA)	
1909	1,961	82,177	40,391	78,658		36,200	66,424		
1899	1,771	69,714	28,049	67,646		25,850	47,427		
Vermont:									
1954 <sup>1</sup>	1,071	35,899	122,829	29,929	59,328	92,962	222,965	8,876	
1953 <sup>2</sup>		38,811	143,327	32,765	69,636	110,225	246,754	9,527	
1952 <sup>2</sup>		42,180	150,042	35,677	79,503	118,958	264,155	11,615	
1951 <sup>2</sup>		(NA)	42,334	141,867	36,450	80,408	113,242	264,622	(S)
1950 <sup>2</sup>		40,636	115,829	35,395	75,804	93,882	205,938	(NA)	
1949 <sup>2</sup>		33,478	85,618	28,738	57,619	66,142	150,578		
1947	831	34,886	83,050	30,252	(NA)	66,428	149,715	9,698	
1939	659	24,084	27,422	20,498		19,940	49,741		
1929	927	30,540	41,946	27,421		33,810	77,260		
1919	1,702	36,709	41,069	33,194		33,758	71,788	(NA)	
1909	1,958	36,467	20,075	33,788		17,272	33,487		
1899	1,938	29,874	13,037	28,179		11,427	25,130		
Massachusetts:									
1954 <sup>1</sup>	11,205	677,140	2,528,296	536,456	1,047,412	1,769,102	4,356,462	180,608	
1953 <sup>2</sup>		733,868	2,706,164	594,325	1,185,366	1,972,574	4,630,013	157,210	
1952 <sup>2</sup>		693,806	2,480,205	559,166	1,127,914	1,795,997	4,293,079	180,840	
1951 <sup>2</sup>		(NA)	702,683	2,404,405	572,340	1,156,740	1,764,671	4,024,945	164,708
1950 <sup>2</sup>		688,603	2,126,009	561,578	1,131,536	1,562,980	3,665,666		
1949 <sup>2</sup>		649,700	1,907,132	528,426	1,039,512	1,383,253	3,193,499	(NA)	
1947	10,509	718,069	1,920,718	601,370	(NA)	1,003,144	3,356,311	198,985	
1939	8,444	549,550	702,487	458,372		498,177	1,181,465		
1929	9,872	639,164	910,023	557,494		694,805	1,710,729		
1919	11,627	801,260	947,768	712,254		764,579	1,746,539	(NA)	
1909	11,684	633,205	364,452	584,559		301,173	659,764		
1899	10,929	463,490	224,758	438,234		195,278	408,971		

See footnotes at end of table.

## GENERAL SUMMARY

Table -B.-GENERAL STATISTICS FOR ALL OPERATING MANUFACTURING ESTABLISHMENTS BY DIVISIONS, STATES, AND STANDARD METROPOLITAN AREAS:  
1954 AND EARLIER YEARS—Continued

For explanation of column captions, see I-1, footnote 1

Division, State, Standard Metropolitan Area, and Year	Establish- ments, number	All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new (\$1,000)	
		Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
New England—Continued									
Rhode Island:									
1954 <sup>1</sup> .....	2,635	123,970	425,365	103,800	207,766	314,467	697,279	27,671	
1953 <sup>2</sup> .....		151,007	524,351	130,151	257,131	409,350	824,482	33,455	
1952 <sup>2</sup> .....		130,485	442,471	110,037	227,009	339,854	724,446	29,476	
1951 <sup>2</sup> .....		(NA)	132,849	420,072	112,449	230,998	323,505	653,589	42,205
1950 <sup>2</sup> .....		134,043	386,468	115,307	229,636	311,231	614,636	(NA)	
1949 <sup>2</sup> .....		124,495	348,105	105,982	212,052	264,042	564,100	(NA)	
1947.....	2,213	147,382	375,676	128,579	(NA)	298,482	658,905	34,609	
1939.....	1,399	122,671	141,262	106,089		105,216	237,698	(NA)	
1929.....	1,701	140,116	182,899	126,068		144,197	324,078		
1919.....	2,367	153,499	168,068	139,316		137,105	330,590		
1909.....	1,951	120,920	65,811	113,538		55,234	122,152		
1899.....	1,678	92,219	41,296	88,197		35,995	77,599		
Connecticut:									
1954 <sup>1</sup> .....	5,090	413,193	1,712,136	326,815	652,008	1,231,359	2,877,486	129,591	
1953 <sup>2</sup> .....		450,405	1,878,675	363,144	756,362	1,393,974	3,192,556	134,353	
1952 <sup>2</sup> .....		(NA)	424,172	1,670,683	344,602	720,782	1,253,177	2,803,599	147,039
1951 <sup>2</sup> .....		405,824	1,524,894	334,527	711,285	1,161,947	2,597,422	139,122	
1950 <sup>2</sup> .....		366,216	1,216,513	302,498	620,307	916,306	2,123,447	(NA)	
1949 <sup>2</sup> .....		337,143	1,050,926	275,842	539,054	771,827	1,674,430	(NA)	
1947.....	3,946	399,955	1,149,348	331,867	(NA)	881,974	1,896,711	116,223	
1939.....	2,439	281,439	382,340	232,979		275,616	690,323	(NA)	
1929.....	3,129	288,016	422,345	251,861		328,865	806,214		
1919.....	4,571	332,817	404,847	291,599		323,348	703,638		
1909.....	4,251	230,403	135,756	210,792		110,119	233,012		
1899.....	3,382	168,991	85,149	159,733		73,394	145,435		
Middle Atlantic:									
1954 <sup>1</sup> .....	82,380	4,105,248	16,656,158	3,212,476	6,217,339	11,524,926	30,402,190	1,551,089	
1953 <sup>2</sup> .....		4,362,051	17,572,382	3,491,465	6,915,521	12,628,266	31,654,930	1,581,553	
1952 <sup>2</sup> .....		(NA)	4,167,399	15,992,791	3,320,456	6,636,902	11,433,562	28,590,270	1,665,191
1951 <sup>2</sup> .....		4,064,369	14,834,813	3,273,735	6,591,917	10,732,197	26,666,411	1,565,054	
1950 <sup>2</sup> .....		3,905,535	12,816,031	3,121,292	6,266,825	9,234,588	23,503,166	(NA)	
1949 <sup>2</sup> .....		3,737,368	11,728,888	2,978,628	5,895,373	8,353,497	20,675,914	(NA)	
1947.....	75,341	3,953,870	11,419,701	3,248,732	(NA)	8,524,628	20,767,991	1,335,235	
1939.....	52,226	2,757,909	8,359,853	2,234,295		2,668,489	7,308,780	(NA)	
1929.....	64,730	3,002,843	4,853,031	2,562,340		3,640,419	10,175,956		
1919.....	85,509	3,348,567	4,463,569	2,859,604		3,447,834	8,399,615		
1909.....	81,315	2,491,161	1,527,833	2,207,747		1,182,568	2,982,264		
1899.....	65,834	1,732,170	871,309	1,604,844		729,366	1,763,315		
New York:									
1954 <sup>1</sup> .....	5,000	1,895,982	7,734,388	1,470,137	2,842,598	5,231,858	14,140,524	572,125	
1953 <sup>2</sup> .....		1,977,426	7,996,237	1,555,434	3,053,837	5,546,020	14,410,234	511,573	
1952 <sup>2</sup> .....		(NA)	1,889,036	7,321,717	1,472,952	2,938,539	5,047,403	13,145,941	528,407
1951 <sup>2</sup> .....		1,816,230	6,711,253	1,427,398	2,852,200	4,649,236	11,933,729	532,654	
1950 <sup>2</sup> .....		1,762,624	5,878,192	1,365,557	2,738,306	4,083,728	10,511,860	(NA)	
1949 <sup>2</sup> .....		1,704,398	5,474,615	1,318,111	2,624,563	3,765,549	9,528,110	(NA)	
1947.....	47,782	1,773,138	5,277,656	1,425,033	(NA)	3,821,492	9,655,859	497,443	
1939.....	32,672	1,211,010	1,749,676	949,362		1,151,820	3,313,649	(NA)	
1929.....	39,395	1,331,357	2,294,882	1,105,966		1,650,379	4,973,920		
1919.....	48,331	1,467,443	1,961,398	1,221,933		1,450,119	3,908,864		
1909.....	44,935	1,155,672	743,263	1,003,981		557,231	1,512,586		
1899.....	35,957	794,939	414,064	726,909		337,324	853,454		
New Jersey:									
1954 <sup>1</sup> .....	13,183	787,593	3,352,425	605,099	1,187,747	2,280,134	6,331,178	359,810	
1953 <sup>2</sup> .....		835,544	3,497,451	657,259	1,320,039	2,478,978	6,451,055	325,610	
1952 <sup>2</sup> .....		(NA)	778,328	3,171,990	610,977	1,257,938	2,252,693	5,764,365	305,400
1951 <sup>2</sup> .....		762,875	2,901,179	610,018	1,248,586	2,095,668	5,310,912	355,609	
1950 <sup>2</sup> .....		721,493	2,498,816	575,288	1,175,553	1,785,940	4,867,312	(NA)	
1949 <sup>2</sup> .....		684,483	2,237,620	546,552	1,095,264	1,593,950	4,206,331	(NA)	
1947.....	10,765	739,035	2,216,874	602,304	(NA)	1,645,489	4,186,077	303,987	
1939.....	7,438	531,126	753,941	431,562		519,087	1,518,269	(NA)	
1929.....	8,388	516,576	808,862	442,328		610,596	1,771,430		
1919.....	10,564	590,920	769,258	507,059		598,514	1,397,775		
1909.....	8,817	363,061	218,446	326,223		169,710	425,496		
1899.....	6,415	229,336	114,223	213,975		95,165	218,280		
Pennsylvania:									
1954 <sup>1</sup> .....	18,795	1,421,673	5,569,345	1,137,241	2,186,993	4,012,932	9,930,486	619,147	
1953 <sup>2</sup> .....		1,549,081	6,078,694	1,278,772	2,541,645	4,603,268	10,793,641	744,364	
1952 <sup>2</sup> .....		(NA)	1,500,035	5,499,084	1,236,527	2,440,425	4,133,466	9,679,964	831,318
1951 <sup>2</sup> .....		1,485,264	5,222,381	1,236,319	2,491,131	3,987,293	9,421,770	676,731	
1950 <sup>2</sup> .....		1,421,418	4,439,623	1,180,447	2,352,966	3,364,920	8,123,994	(NA)	
1949 <sup>2</sup> .....		1,348,967	4,017,253	1,113,965	2,175,546	2,993,998	6,941,473	(NA)	
1947.....	16,794	1,441,697	3,925,171	1,221,395	(NA)	3,057,647	6,926,055	533,800	
1939.....	13,116	1,015,773	1,356,236	853,371		997,582	2,476,862	(NA)	
1929.....	16,947	1,154,910	1,749,287	1,014,046		1,379,444	3,430,606		
1919.....	26,614	1,296,204	1,732,913	1,130,612		1,399,201	3,092,976		
1909.....	27,563	972,428	566,524	877,543		455,627	1,044,182		
1899.....	23,462	707,895	343,022	663,960		296,877	691,581		

See footnotes at end of table.

## GENERAL SUMMARY

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Table "B.—GENERAL STATISTICS FOR ALL OPERATING MANUFACTURING ESTABLISHMENTS BY DIVISIONS, STATES, AND STANDARD METROPOLITAN AREA:  
1954 AND EARLIER YEARS—Continued

For explanation of column captions, see Introduction.

Division, State, Standard Metropolitan Area, and Year	Establishments, number	All employees		Production workers			Value added by manufacture, (\$1,000)	Capital expenditures, new, (\$1,000)
		Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)		
East North Central:								
1954 <sup>1</sup> .....	58,946	1,422,820	20,003,625	3,489,654	6,964,115	14,265,381	36,500,510	2,653,891
1953 <sup>2</sup> .....		5,000,314	22,124,246	4,008,696	8,166,737	16,417,096	39,926,490	2,535,657
1952 <sup>2</sup> .....		4,628,971	19,568,947	3,685,187	7,597,235	14,404,477	35,533,088	2,461,857
1951 <sup>2</sup> .....	(NA)	4,985,164	18,205,441	3,705,677	7,617,045	13,569,131	33,543,646	2,351,830
1950 <sup>2</sup> .....		4,328,066	15,559,155	3,496,240	7,170,060	11,592,155	29,818,015	
1949 <sup>2</sup> .....		4,008,911	13,542,806	3,217,736	6,423,806	9,870,679	24,501,907	(NA)
1947.....								
1939.....	50,569	4,322,812	13,019,237	3,567,725		9,940,544	23,474,185	1,863,548
1929.....	38,013	2,692,815	2,092,078	2,180,600		2,932,440	7,744,406	
1919.....	46,396	2,949,356	4,841,271	2,542,176	(NA)	3,738,803	9,973,491	
1909.....	58,717	2,824,606	3,849,389	2,387,477		2,981,205	7,093,838	
1899.....	60,013	1,729,537	1,077,660	1,513,764		827,153	2,177,230	
1899.....	50,521	1,176,672	574,539	1,073,322		473,040	1,205,478	
Ohio:								
1954 <sup>1</sup> .....	14,550	1,267,542	5,655,721	986,282	1,947,963	4,018,755	10,165,111	700,932
1953 <sup>2</sup> .....		1,383,971	5,444,115	1,106,329	2,264,391	4,586,641	11,192,103	672,246
1952 <sup>2</sup> .....		1,311,233	5,548,298	1,043,719	2,125,892	4,092,735	10,037,844	731,524
1951 <sup>2</sup> .....	(NA)	1,277,891	5,117,121	1,028,445	2,120,984	3,802,661	9,396,104	790,976
1950 <sup>2</sup> .....		1,170,623	4,162,022	935,796	1,894,489	3,071,701	7,972,073	(NA)
1949 <sup>2</sup> .....		1,078,746	3,585,634	860,447	1,689,299	2,595,797	6,412,895	
1947.....								
1939.....	12,302	1,194,263	3,559,540	988,019		2,726,991	6,357,957	498,254
1929.....	9,543	731,742	1,120,831	595,520		809,399	2,116,434	
1919.....	11,855	853,385	1,604,180	741,143		1,102,166	2,889,804	
1909.....	15,585	867,255	1,214,552	728,303	(NA)	941,340	2,182,610	(NA)
1899.....	15,138	508,285	317,597	446,934		245,450	613,734	
1899.....	13,868	336,218	164,579	308,109		136,428	339,368	
Indiana:								
1954 <sup>1</sup> .....	6,355	582,803	2,504,411	457,965	902,354	1,796,754	4,625,477	301,247
1953 <sup>2</sup> .....		679,399	2,869,657	553,928	1,114,095	2,180,370	5,205,348	420,827
1952 <sup>2</sup> .....		679,399	2,419,456	491,750	979,713	1,826,933	4,523,533	362,788
1951 <sup>2</sup> .....	(NA)	591,565	2,260,924	487,909	991,914	1,735,432	4,278,221	335,951
1950 <sup>2</sup> .....		558,370	1,938,651	461,334	936,525	1,485,702	3,832,892	(NA)
1949 <sup>2</sup> .....		506,350	1,658,144	414,857	829,208	1,254,500	3,059,100	
1947.....								
1939.....	4,192	548,260	1,582,237	477,144		1,232,189	3,476,741	302,104
1929.....	5,091	337,869	474,099	275,272		342,652	964,746	
1919.....	5,091	359,888	534,186	314,698	(NA)	418,771	1,136,463	(NA)
1909.....	7,558	322,362	400,942	276,695		315,976	721,736	
1899.....	7,969	210,589	121,816	186,984		95,511	244,700	
1899.....	7,128	149,464	69,251	139,017		59,280	141,909	
Illinois:								
1954 <sup>1</sup> .....	17,628	1,177,933	5,137,353	903,784	1,789,154	3,520,339	9,668,752	551,882
1953 <sup>2</sup> .....		1,284,031	5,495,229	1,003,889	2,039,317	3,901,970	10,111,624	596,446
1952 <sup>2</sup> .....		1,234,323	5,050,519	956,714	1,957,825	3,547,742	9,319,779	596,433
1951 <sup>2</sup> .....	(NA)	1,219,701	4,709,159	956,588	1,969,685	3,347,116	8,835,548	479,973
1950 <sup>2</sup> .....		1,163,316	4,042,835	909,035	1,849,754	2,851,103	7,933,449	
1949 <sup>2</sup> .....		1,103,973	3,697,953	860,475	1,733,932	2,557,792	6,898,999	(NA)
1947.....								
1939.....	15,993	1,186,134	3,589,364	955,057		2,628,615	6,683,083	472,657
1929.....	11,983	752,728	1,207,625	590,995		742,451	2,187,240	
1919.....	15,333	827,507	1,393,592	691,555	(NA)	1,024,870	2,930,038	
1909.....	17,808	785,859	1,070,992	649,994		797,081	1,929,125	
1899.....	18,026	543,687	364,768	465,764		273,319	758,350	
1899.....	14,374	373,835	199,653	332,871		159,104	439,418	
Michigan:								
1954 <sup>1</sup> .....	12,711	1,001,630	4,891,749	809,316	1,655,338	3,660,965	8,707,194	870,465
1953 <sup>2</sup> .....		1,179,258	5,623,046	971,442	1,987,301	4,327,145	9,781,647	678,537
1952 <sup>2</sup> .....		1,021,265	4,708,765	831,893	1,735,435	3,587,302	8,320,712	588,109
1951 <sup>2</sup> .....	(NA)	1,042,326	4,380,279	868,748	1,761,238	3,397,426	7,858,442	551,873
1950 <sup>2</sup> .....		1,012,145	3,952,496	850,623	1,769,229	3,112,945	7,392,255	(NA)
1949 <sup>2</sup> .....		922,362	3,333,103	768,876	1,528,224	2,559,767	5,769,964	
1947.....								
1939.....	9,891	879,481	3,097,336	823,255		2,444,552	5,200,135	
1929.....	5,961	618,702	1,024,965	520,165		788,036	1,794,016	
1919.....	6,686	599,179	1,041,789	530,035	(NA)	840,505	2,067,344	
1909.....	8,046	541,175	787,241	470,274		638,420	1,544,581	
1899.....	9,159	262,106	153,838	231,499		118,968	316,497	
1899.....	7,310	169,150	88,893	155,800		62,532	143,726	
Wisconsin:								
1954 <sup>1</sup> .....	7,702	429,919	1,814,390	332,305	609,304	1,268,569	3,333,976	169,363
1953 <sup>2</sup> .....		473,655	1,970,199	373,108	661,633	1,420,970	3,635,768	167,601
1952 <sup>2</sup> .....		477,201	1,841,909	361,111	758,370	1,349,765	3,331,220	182,943
1951 <sup>2</sup> .....	(NA)	453,681	1,737,958	363,987	773,224	1,286,496	3,175,331	195,057
1950 <sup>2</sup> .....		423,612	1,463,151	339,452	720,063	1,070,704	2,687,346	
1949 <sup>2</sup> .....		397,480	1,267,972	313,081	643,143	902,823	2,360,949	
1947.....								
1939.....	6,980	418,674	1,190,760	343,850		908,197	2,263,047	
1929.....	6,334	251,774	474,528	198,648		249,902	681,970	
1919.....	7,431	309,397	467,524	264,745	(NA)	352,491	949,842	
1909.....	9,720	307,955	375,662	262,211		288,388	715,786	(NA)
1899.....	9,721	204,870	119,641	182,583		93,905	243,949	
1899.....	7,841	148,005	66,188	137,525		55,696	141,057	

S. 1. Figures at end of table.



## GENERAL SUMMARY

Table 4B.—GENERAL STATISTICS FOR ALL OPERATING MANUFACTURING ESTABLISHMENTS BY DIVISIONS, STATES, AND STANDARD METROPOLITAN AREAS:  
1954 AND EARLIER YEARS—Continued

(For explanation of column captions see Introduction)

Division, State, Standard Metropolitan Area, and Year	Establishments, number	All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new (\$1,000)
		Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)		
West North Central:								
1954 <sup>1</sup> .....	19,020	939,357	3,731,449	713,222	1,426,488	2,573,277	7,113,835	389,113
1953 <sup>2</sup> .....		978,919	3,808,732	770,470	1,558,465	2,764,322	7,050,337	358,591
1952 <sup>2</sup> .....		946,917	3,496,043	739,486	1,520,663	2,502,059	6,404,371	319,684
1951 <sup>2</sup> .....	(NA)	881,557	3,032,555	691,971	1,410,879	2,180,216	5,688,029	353,344
1950 <sup>2</sup> .....		811,926	2,529,007	637,452	1,291,604	1,803,214	5,154,364	(NA)
1949 <sup>2</sup> .....		778,589	2,297,964	611,224	1,215,493	1,593,854	4,394,939	
1947.....	17,389	76,147	2,069,657	635,455		1,507,209	4,115,706	340,462
1939.....	14,066	490,651	642,705	376,156		420,581	1,348,167	
1929.....	17,792	567,160	804,673	474,115	(NA)	589,162	1,869,991	(NA)
1919.....	26,255	603,866	734,649	492,054		536,304	1,387,774	
1909.....	27,171	437,777	274,298	374,337		204,793	562,044	
1899.....	20,732	296,657	146,336	266,051		117,209	325,404	
Minnesota:								
1954 <sup>1</sup> .....	5,027	203,022	834,888	151,132	305,345	560,492	1,594,505	82,188
1953 <sup>2</sup> .....		207,648	834,484	161,252	330,935	603,780	1,554,405	96,113
1952 <sup>2</sup> .....		208,199	786,442	158,468	325,786	542,643	1,445,476	55,559
1951 <sup>2</sup> .....	(NA)	196,901	711,211	151,568	311,967	499,307	1,301,396	66,485
1950 <sup>2</sup> .....		180,864	593,914	142,122	290,737	414,814	1,200,204	(NA)
1949 <sup>2</sup> .....		177,581	558,893	139,476	276,618	374,919	1,081,848	
1947.....	4,563	181,514	508,352	145,020		358,605	1,021,274	82,800
1939.....	3,735	102,179	143,397	78,023		95,273	306,840	
1929.....	4,315	124,231	180,142	103,414	(NA)	132,418	404,995	(NA)
1919.....	5,633	140,414	169,843	113,781		124,811	327,921	
1909.....	5,561	99,030	62,923	84,767		47,471	127,797	
1899.....	4,096	71,182	35,093	64,557		29,029	73,394	
Iowa:								
1954 <sup>1</sup> .....	3,320	162,705	643,980	122,763	248,683	443,615	1,235,965	73,410
1953 <sup>2</sup> .....		165,773	640,194	130,011	264,734	465,703	1,179,513	64,614
1952 <sup>2</sup> .....		158,783	591,782	120,417	250,220	423,495	1,113,171	59,783
1951 <sup>2</sup> .....	(NA)	156,489	544,556	118,440	246,959	392,223	1,018,667	87,358
1950 <sup>2</sup> .....		146,929	449,862	110,296	224,957	320,032	925,762	(NA)
1949 <sup>2</sup> .....		140,020	414,982	106,737	217,271	289,046	795,502	
1947.....	2,963	140,397	372,285	112,467		275,411	671,008	64,686
1939.....	2,541	88,054	114,087	64,773		72,889	243,390	
1929.....	3,317	97,414	137,243	81,678	(NA)	102,327	323,820	(NA)
1919.....	5,104	98,470	122,168	79,196		88,381	221,757	
1909.....	5,528	73,037	43,514	61,635		32,542	88,531	
1899.....	4,828	49,579	22,253	44,420		18,021	47,092	
Missouri:								
1954 <sup>1</sup> .....	6,198	368,479	1,420,103	285,378	552,691	977,327	2,727,266	124,394
1953 <sup>2</sup> .....		392,950	1,499,153	314,145	621,328	1,083,365	2,786,829	112,844
1952 <sup>2</sup> .....	(NA)	369,108	1,325,108	292,704	580,437	942,611	2,422,709	124,206
1951 <sup>2</sup> .....		349,168	1,142,343	279,791	538,259	815,322	2,177,950	101,990
1950 <sup>2</sup> .....		330,813	1,003,357	265,312	521,661	720,622	2,045,318	(NA)
1949 <sup>2</sup> .....		317,662	914,845	253,984	493,180	639,496	1,731,153	
1947.....	5,721	327,114	826,179	269,394		606,825	1,620,887	132,166
1939.....	4,487	220,269	280,667	175,983		187,514	581,804	
1929.....	5,765	240,602	332,278	202,879	(NA)	240,369	777,497	(NA)
1919.....	8,175	235,772	273,722	193,754		194,927	534,616	
1909.....	8,375	177,479	109,837	152,993		80,843	219,700	
1899.....	6,853	120,178	60,009	107,704		46,714	132,115	
North Dakota:								
1954 <sup>1</sup> .....	367	5,604	19,189	3,913	8,323	12,517	34,991	16,244
1953 <sup>2</sup> .....		7,796	24,175	5,398	9,996	15,958	46,765	3,694
1952 <sup>2</sup> .....	(NA)	5,896	16,745	4,049	8,926	11,134	31,201	(S)
1947.....	361	5,209	12,321	3,817		8,476	29,431	2,250
1939.....	342	4,075	4,968	2,605		2,737	10,984	
1947.....	373	5,017	7,762	4,024	(NA)	5,687	15,637	(NA)
1919.....	755	5,033	6,424	4,169		5,033	12,198	
1909.....	752	3,425	2,416	2,789		1,787	5,464	
1899.....	337	1,510	801	1,358		671	2,109	
South Dakota:								
1954 <sup>1</sup> .....	546	11,531	41,096	8,414	17,990	27,977	77,692	3,444
1953 <sup>2</sup> .....		10,441	37,038	7,619	16,122	26,920	80,703	3,270
1952 <sup>2</sup> .....	(NA)	11,554	41,937	9,931	21,460	33,625	76,022	2,148
1947.....	494	10,265	25,796	8,062		19,193	51,398	3,371
1939.....	450	7,327	9,036	5,421		5,905	19,619	
1929.....	615	7,803	10,691	6,535	(NA)	3,132	22,681	(NA)
1919.....	1,054	6,774	8,773	5,588		6,751	17,070	
1909.....	1,020	4,284	2,914	3,602		2,298	6,394	
1899.....	624	2,512	1,305	2,224		1,130	3,046	

See footnotes at end of table.

## GENERAL SUMMARY

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Table 4B.—GENERAL STATISTICS FOR ALL OPERATING MANUFACTURING ESTABLISHMENTS BY DIVISIONS, STATES, AND STANDARD METROPOLITAN AREAS:  
1954 AND EARLIER YEARS—Continued

(For explanation of column captions see Introduction)

Division, State, Standard Metropolitan Area, and Year	Establishments, number	All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new (\$1,000)		
		Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
West North Central—Continued										
Nebraska:										
1954 <sup>1</sup> .....	1,423	{	56,996	213,732	43,431	90,351	150,728	394,222	36,414	
1953 <sup>2</sup> .....			57,424	210,073	45,006	93,247	152,862	401,398	19,342	
1952 <sup>2</sup> .....			53,031	185,996	41,779	90,885	135,564	344,436	21,807	
1951 <sup>2</sup> .....			(NA)	50,651	166,796	40,433	86,725	124,996	336,725	16,853
1950 <sup>2</sup> .....			47,984	147,617	36,371	77,894	101,644	270,579	{	(NA)
1949 <sup>2</sup> .....	45,276	123,114	34,942	70,194	84,289	219,880				
1947.....	1,341	47,014	119,884	37,325	(NA)	87,400	260,598	{	18,400	
1939.....	1,093	26,183	34,138	18,416		20,175	68,139			
1929.....	1,491	34,752	51,347	28,212		36,881	119,994			
1919.....	2,385	44,924	60,138	35,387		44,513	112,646			
1909.....	2,500	29,444	19,439	24,336		13,948	47,938			
1899.....	1,695	20,965	10,950	18,669	8,842	34,377				
Kansas:										
1954 <sup>1</sup> .....	2,139	{	131,017	558,457	98,187	203,102	400,619	1,049,291	53,017	
1953 <sup>2</sup> .....			136,886	563,615	107,039	222,103	415,734	1,000,724	58,714	
1952 <sup>2</sup> .....			140,346	548,033	112,138	242,949	412,987	971,356	54,779	
1951 <sup>2</sup> .....			(NA)	111,874	417,134	89,267	201,281	313,928	749,333	74,264
1950 <sup>2</sup> .....			87,622	283,031	69,982	147,475	209,397	613,500	{	(NA)
1949 <sup>2</sup> .....	82,090	243,790	63,767	129,551	174,038	499,492				
1947.....	1,946	74,634	204,840	59,370	(NA)	151,299	461,110	{	36,787	
1939.....	1,418	42,564	56,412	30,935		36,088	117,391			
1929.....	1,916	57,341	85,210	47,373		33,348	205,367			
1919.....	3,149	72,479	93,581	60,179		71,888	161,566			
1909.....	3,435	51,078	33,255	44,215		25,904	66,220			
1899.....	2,299	30,731	15,925	27,119	12,802	33,271				
South Atlantic:										
1954 <sup>1</sup> .....	30,530	{	1,745,372	5,480,901	1,466,333	2,847,757	4,072,169	10,657,729	789,254	
1953 <sup>2</sup> .....			1,783,099	5,493,716	1,525,603	3,000,697	4,270,016	10,686,205	760,852	
1952 <sup>2</sup> .....			1,722,184	5,010,227	1,484,507	2,902,768	3,903,100	9,656,904	687,892	
1951 <sup>2</sup> .....			(NA)	1,667,970	4,641,801	1,451,120	2,843,829	3,647,683	9,316,475	795,660
1950 <sup>2</sup> .....			1,604,261	4,066,254	1,388,791	2,728,620	3,217,890	8,471,115	{	(NA)
1949 <sup>2</sup> .....	1,502,335	3,611,821	1,301,533	2,504,937	2,819,696	7,074,658				
1947.....	24,000	1,523,890	3,371,438	1,344,836	(NA)	2,710,001	6,941,906	{	677,651	
1939.....	16,657	1,110,704	1,073,672	977,596		818,075	2,216,976			
1929.....	20,860	999,995	1,035,670	912,247		825,903	2,458,223			
1919.....	28,682	896,592	940,127	812,122		771,839	1,846,999			
1909.....	28,088	715,047	301,652	663,015		244,379	591,182			
1899.....	19,324	482,712	153,274	458,344	130,864	316,115				
Delaware:										
1954 <sup>1</sup> .....	556	{	39,418	151,269	30,988	60,451	104,882	353,083	23,375	
1953 <sup>2</sup> .....			43,493	164,641	33,817	68,176	118,736	378,975	27,024	
1952 <sup>2</sup> .....			45,367	164,913	36,530	73,832	121,142	372,445	31,511	
1951 <sup>2</sup> .....			(NA)	43,506	142,977	35,578	70,870	105,733	326,715	22,814
1950 <sup>2</sup> .....			40,928	121,435	34,116	66,465	89,388	287,592	{	(NA)
1949 <sup>2</sup> .....	37,075	106,528	30,456	61,637	77,601	229,813				
1947.....	483	34,738	92,858	29,275	(NA)	70,578	183,073	{	21,137	
1939.....	416	23,360	29,114	19,825		21,163	54,085			
1929.....	460	26,556	37,407	23,552		29,063	69,151			
1919.....	653	33,231	44,914	28,994		37,214	79,547			
1909.....	726	23,262	12,618	21,238		10,296	21,902			
1899.....	633	21,751	9,794	20,562	8,457	16,596				
Maryland:										
1954 <sup>1</sup> .....	3,253	{	253,144	987,559	195,916	384,180	675,056	1,888,585	93,839	
1953 <sup>2</sup> .....			259,303	1,001,510	205,621	413,793	719,048	1,854,582	115,935	
1952 <sup>2</sup> .....			258,339	907,367	206,978	411,676	652,243	1,706,104	96,598	
1951 <sup>2</sup> .....			(NA)	248,065	841,658	200,199	415,743	609,380	1,603,006	98,208
1950 <sup>2</sup> .....			220,505	672,354	176,512	357,589	488,119	1,455,095	{	(NA)
1949 <sup>2</sup> .....	209,577	612,450	169,373	328,866	439,258	1,203,069				
1947.....	2,826	228,655	612,296	188,696	(NA)	458,282	1,139,240	{	123,599	
1939.....	2,712	166,091	209,193	140,930		155,938	420,589			
1929.....	3,231	150,906	195,013	131,099		148,835	422,097			
1919.....	4,725	159,362	188,223	139,241		146,578	322,092			
1909.....	4,837	120,113	59,053	107,921		45,436	116,620			
1899.....	3,886	100,911	39,260	94,170	32,414	81,722				
District of Columbia:										
1954 <sup>1</sup> .....	484	{	20,399	90,083	11,821	22,390	44,743	157,213	6,536	
1953 <sup>2</sup> .....			19,228	88,259	9,781	19,391	37,297	150,687	3,733	
1952 <sup>2</sup> .....			17,930	71,481	9,859	(S)	36,047	129,422	3,884	
1951 <sup>2</sup> .....			(NA)	17,175	65,634	9,944	(S)	33,254	126,803	6,983
1950 <sup>2</sup> .....			17,118	60,905	10,006	(S)	31,664	113,746	{	(NA)
1949 <sup>2</sup> .....	16,854	58,618	9,690	(S)	31,463	123,340				
1947.....	428	17,815	55,872	10,007	(NA)	27,691	99,067	{	4,502	
1939.....	452	14,377	24,920	7,676		11,505	43,367			
1929.....	547	14,002	25,449	9,752		15,513	52,773			
1919.....	568	13,327	18,537	10,268		12,960	37,404			
1909.....	518	9,283	6,835	7,707		4,989	15,043			
1899.....	491	7,112	3,895	6,155	3,023	8,951				

See footnotes at end of table.

## GENERAL SUMMARY

Table -B.-GENERAL STATISTICS FOR ALL OPERATING MANUFACTURING ESTABLISHMENTS BY DIVISIONS, STATES, AND STANDARD METROPOLITAN AREAS: 1954 AND EARLIER YEARS—Continued

For explanation of column captions see Introduction)

Division, State, Standard Metropolitan Area, and Year	Establishments, number	All employees		Production workers			Value added by manufacturing (\$1,000)	Percentage increase over 1947 (\$1,000)
		Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)		
<b>South Atlantic—Continued</b>								
<b>Virginia:</b>								
1954 <sup>1</sup> .....	4,338	239,733	760,454	202,654	394,735	576,844	1,629,041	111.487
1953 <sup>2</sup> .....		253,796	781,301	217,783	424,413	616,717	1,629,938	111.274
1952 <sup>3</sup> .....		238,446	701,957	204,207	402,061	590,390	1,467,005	88.442
1951 <sup>4</sup> .....		(NA)	633,953	197,146	381,450	494,011	1,447,535	85.452
1950 <sup>5</sup> .....		229,198	563,404	192,484	374,658	445,475	1,326,495	NA
1949 <sup>6</sup> .....		212,516	509,168	185,250	352,611	399,410	1,085,249	
1947 <sup>7</sup> .....	3,643	216,507	483,575	189,942		384,293	1,050,623	100.383
1939.....	2,494	150,202	150,359	132,089		113,848	376,259	
1929.....	3,287	131,586	147,352	120,273		118,089	380,086	
1919.....	5,487	132,842	145,423	118,976	(NA)	119,583	271,131	(NA)
1909.....	5,685	114,227	47,256	105,676		94,211	27,155	
1900.....	3,186	70,051	23,903	66,223		20,274	49,285	
<b>West Virginia:</b>								
1954 <sup>1</sup> .....	2,027	118,568	472,560	97,322	185,651	354,666	988,274	97.383
1953 <sup>2</sup> .....		130,032	502,625	108,419	212,296	393,764	1,055,374	97.527
1952 <sup>3</sup> .....		131,014	462,132	110,697	210,557	361,141	1,009,176	93.138
1951 <sup>4</sup> .....		(NA)	134,609	114,761	222,585	355,654	1,036,456	NA
1950 <sup>5</sup> .....		124,420	376,849	105,901	204,807	299,941	882,401	
1949 <sup>6</sup> .....		120,550	345,308	100,946	193,186	267,602	719,921	
1947 <sup>7</sup> .....	1,602	127,354	337,869	108,985		268,469	663,903	100.342
1939.....	1,094	87,741	113,660	74,411		87,760	213,284	
1929.....	1,488	93,565	136,291	85,326		115,295	251,615	
1919.....	2,627	90,651	118,898	82,615	(NA)	101,310	199,568	(NA)
1909.....	2,586	68,864	38,710	63,893		33,000	69,072	
1900.....	1,824	34,824	14,159	33,080		12,640	29,779	
<b>North Carolina:</b>								
1954 <sup>1</sup> .....	(NA)	430,001	1,157,416	380,089	719,429	915,683	2,210,463	129.422
1953 <sup>2</sup> .....		442,719	1,183,639	395,554	760,806	973,921	2,274,019	126.788
1952 <sup>3</sup> .....		414,943	1,071,309	373,768	718,299	883,149	2,013,824	117.588
1951 <sup>4</sup> .....		(NA)	409,776	1,019,722	370,698	705,509	1,948,452	124.211
1950 <sup>5</sup> .....		405,583	947,406	367,263	716,036	788,662	1,862,825	(NA)
1949 <sup>6</sup> .....		366,059	806,324	333,633	627,350	671,737	1,627,572	
1947 <sup>7</sup> .....	5,321	381,438	758,757	350,177		641,917	1,646,030	137.583
1939.....	3,158	293,258	245,879	269,238		198,519	544,181	
1929.....	3,797	226,425	198,810	209,826		160,868	693,013	
1919.....	5,690	167,848	148,361	156,376	(NA)	124,978	743,707	(NA)
1909.....	4,931	128,002	41,259	121,473		34,355	94,795	
1900.....	3,465	75,216	16,447	72,322		14,052	40,420	
<b>South Carolina:</b>								
1954 <sup>1</sup> .....	(NA)	219,447	632,709	190,119	378,931	486,960	1,040,936	96.429
1953 <sup>2</sup> .....		221,860	606,907	201,047	404,250	513,537	1,056,243	98.899
1952 <sup>3</sup> .....		206,182	558,026	187,241	375,761	466,588	969,926	93.122
1951 <sup>4</sup> .....		(NA)	199,681	184,684	364,031	447,697	926,277	120.502
1950 <sup>5</sup> .....		194,408	461,773	178,455	355,418	402,060	857,716	(NA)
1949 <sup>6</sup> .....		187,678	420,682	169,759	336,067	358,053	719,044	
1947 <sup>7</sup> .....	2,135	188,760	377,105	175,889		330,670	793,915	100.743
1939.....	1,300	136,094	103,171	126,408		86,280	169,294	
1929.....	1,659	113,876	86,023	108,777		73,223	159,351	
1919.....	1,821	83,982	72,336	78,918	(NA)	61,934	152,301	(NA)
1909.....	1,854	76,303	24,117	73,046		20,361	46,885	
1900.....	1,369	38,444	10,438	47,025		9,130	22,850	
<b>Georgia:</b>								
1954 <sup>1</sup> .....	(NA)	301,290	843,557	260,082	503,497	642,582	1,592,411	101.849
1953 <sup>2</sup> .....		303,017	834,347	263,447	517,355	650,485	1,545,467	93.937
1952 <sup>3</sup> .....		292,342	742,243	259,268	497,866	587,871	1,355,318	93.131
1951 <sup>4</sup> .....		(NA)	281,987	253,182	496,464	556,350	1,332,659	110.159
1950 <sup>5</sup> .....		288,926	640,269	251,117	488,185	513,178	1,235,957	(NA)
1949 <sup>6</sup> .....		268,335	550,377	235,190	448,583	431,290	1,001,242	
1947 <sup>7</sup> .....	4,755	249,958	484,289	225,838		399,862	1,016,079	84.320
1939.....	3,055	176,965	142,021	155,870		106,195	280,032	
1929.....	4,179	171,734	140,674	158,774		110,435	294,649	
1919.....	4,608	135,263	125,503	122,578	(NA)	100,146	251,098	(NA)
1909.....	4,792	112,895	43,867	104,588		34,805	85,893	
1900.....	3,015	87,151	23,162	83,336		19,958	45,176	
<b>Florida:</b>								
1954 <sup>1</sup> .....	(NA)	123,368	385,291	97,338	198,489	270,749	797,721	104.631
1953 <sup>2</sup> .....		103,973	280,095	84,928	173,080	201,322	568,572	96.122
1952 <sup>3</sup> .....		90,270	221,859	72,937	150,243	159,403	449,288	(NA)
1951 <sup>4</sup> .....		(NA)	83,691	67,236	141,170	143,282	365,408	(NA)
1950 <sup>5</sup> .....		2,807	168,817	66,027		128,239	349,976	100.052
1949 <sup>6</sup> .....								
1947 <sup>7</sup> .....	1,976	62,616	55,355	51,149		36,847	115,885	
1939.....	2,212	71,345	68,651	64,868	(NA)	54,582	135,488	
1929.....	2,503	80,086	77,932	74,156		67,136	120,151	(NA)
1919.....	2,159	62,098	27,937	57,473		22,982	46,761	
1909.....	1,275	37,252	12,216	35,471		10,916	21,336	

See footnotes at end of table.



## GENERAL SUMMARY

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Table B.—GENERAL STATISTICS FOR ALL OPERATING MANUFACTURING ESTABLISHMENTS BY DIVISIONS, STATES, AND STANDARD METROPOLITAN AREAS:  
1954 AND EARLIER YEARS—Continued

(For explanation of column captions see Introduction)

Division, State, Standard Metropolitan Area, and Year	Establishments, number	All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new (\$1,000)
		Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)		
East South Central:								
1954 <sup>1</sup> .....	12,854	714,758	2,288,840	601,493	1,166,807	1,713,827	4,701,863	395,995
1953 <sup>2</sup> .....		737,892	2,329,018	632,278	1,237,120	1,808,919	4,666,926	388,260
1952 <sup>2</sup> .....		689,973	2,038,558	592,577	1,152,264	1,576,129	4,038,423	309,568
1951 <sup>2</sup> .....		674,266	1,855,321	585,640	1,128,130	1,460,885	3,911,625	310,505
1950 <sup>2</sup> .....		640,233	1,617,376	556,895	1,079,780	1,283,881	3,452,683	(NA)
1949 <sup>2</sup> .....		594,336	1,407,008	516,070	1,004,131	1,109,491	2,839,430	(NA)
1947.....	10,911	635,445	1,363,617	559,827	(NA)	1,096,474	2,884,391	256,002
1939.....		7,024	410,008	389,733		288,656	823,101	
1929.....		9,860	416,905	440,520		348,734	924,428	
1919.....		14,094	364,878	367,639		296,470	660,223	
1909.....		15,381	288,257	261,772		102,192	294,325	
1899.....	10,058	188,412	66,388	177,208		56,004	148,579	
Kentucky:								
1954 <sup>1</sup> .....	2,651	146,434	529,206	119,218	233,719	383,945	1,236,260	124,037
1953 <sup>2</sup> .....		148,977	524,492	124,405	244,876	397,182	1,213,002	103,141
1952 <sup>2</sup> .....		143,599	469,382	120,462	237,204	353,645	1,078,041	76,003
1951 <sup>2</sup> .....		145,709	457,580	122,983	244,676	349,158	1,093,896	77,243
1950 <sup>2</sup> .....		136,727	385,478	116,333	228,281	296,840	957,640	(NA)
1949 <sup>2</sup> .....		123,711	331,713	103,847	204,808	250,085	799,482	(NA)
1947.....	2,245	129,553	304,782	110,648	(NA)	236,085	743,322	77,135
1939.....		1,582	89,004	62,481		61,592	186,485	
1929.....		2,246	88,583	77,825		88,644	236,080	
1919.....		3,767	79,261	85,845		66,261	158,498	
1909.....		4,776	74,010	65,400		27,888	111,975	
1899.....	3,648	56,091	22,639	51,735		18,454	59,102	
Tennessee:								
1954 <sup>1</sup> .....	4,058	260,599	850,175	214,027	418,378	612,461	1,678,786	152,700
1953 <sup>2</sup> .....		272,617	891,674	228,422	452,532	666,619	1,685,237	156,438
1952 <sup>2</sup> .....		258,279	788,677	216,164	429,463	585,140	1,469,462	102,586
1951 <sup>2</sup> .....		237,604	656,204	203,826	393,845	503,702	1,294,384	105,227
1950 <sup>2</sup> .....		222,990	576,346	192,368	374,784	446,577	1,174,446	(NA)
1949 <sup>2</sup> .....		213,090	507,329	183,631	364,950	400,571	981,069	(NA)
1947.....	3,345	222,300	474,978	193,197	(NA)	371,637	961,385	83,792
1939.....		2,225	152,179	131,024		108,828	318,378	
1929.....		2,855	142,020	149,080		115,877	322,898	
1919.....		4,426	107,725	105,861		80,687	210,201	
1909.....		4,609	82,257	37,438		28,252	76,201	
1899.....	3,116	49,292	17,775	45,963		14,728	38,190	
Alabama:								
1954 <sup>1</sup> .....	3,893	217,084	672,109	188,414	357,780	528,618	1,319,192	82,248
1953 <sup>2</sup> .....		223,139	675,265	197,217	380,367	550,894	1,311,436	98,571
1952 <sup>2</sup> .....		209,197	593,046	186,063	352,815	486,438	1,139,198	101,580
1951 <sup>2</sup> .....		211,950	572,961	188,999	357,807	473,499	1,192,019	89,042
1950 <sup>2</sup> .....		207,544	511,374	183,741	357,166	425,467	1,039,831	(NA)
1949 <sup>2</sup> .....		190,261	449,154	169,443	321,350	363,597	836,916	(NA)
1947.....	3,336	206,239	444,887	185,700	(NA)	372,510	877,416	72,362
1939.....		1,982	129,261	114,706		91,106	245,577	
1929.....		2,848	130,034	126,390		102,005	258,125	
1919.....		3,522	116,440	116,974		98,482	190,965	
1909.....		3,398	78,203	33,849		27,284	62,519	
1899.....	2,000	54,970	16,971	52,711		14,912	34,112	
Mississippi:								
1954 <sup>1</sup> .....	2,252	90,641	237,350	79,834	156,930	188,803	467,625	37,008
1953 <sup>2</sup> .....		93,159	237,587	82,234	159,345	194,224	457,251	30,110
1952 <sup>2</sup> .....		78,898	187,453	69,888	132,782	150,906	351,722	29,399
1951 <sup>2</sup> .....		79,003	168,576	69,832	131,802	134,526	331,326	38,993
1950 <sup>2</sup> .....		72,972	144,178	64,453	119,549	114,997	280,766	(NA)
1949 <sup>2</sup> .....		67,274	118,812	59,149	113,023	95,238	221,963	(NA)
1947.....	1,985	77,353	138,970	70,282	(NA)	116,242	302,268	22,713
1939.....		1,235	36,498	45,893		27,130	72,661	
1929.....		1,911	56,268	52,086		42,208	107,325	
1919.....		2,379	61,452	58,959		51,040	100,559	
1909.....		2,598	53,787	22,422		18,768	43,630	
1899.....	1,294	28,059	9,003	26,799		7,910	17,175	
West South Central:								
1954 <sup>1</sup> .....	16,469	713,365	2,678,359	556,370	1,128,594	1,868,084	5,721,035	721,066
1953 <sup>2</sup> .....		716,645	2,599,284	569,839	1,166,989	1,889,694	5,646,834	754,766
1952 <sup>2</sup> .....		662,136	2,291,581	534,757	1,111,965	1,680,018	5,186,213	880,616
1951 <sup>2</sup> .....		635,856	2,023,686	520,007	1,065,598	1,497,745	4,809,571	610,952
1950 <sup>2</sup> .....		585,924	1,669,811	469,090	974,187	1,227,347	3,849,399	(NA)
1949 <sup>2</sup> .....		556,462	1,515,529	445,671	915,414	1,092,324	3,069,647	(NA)
1947.....	13,183	550,760	1,334,116	456,641	(NA)	996,258	3,030,203	457,920
1939.....		9,509	330,516	362,542		234,980	815,276	
1929.....		10,576	341,079	416,742		316,474	950,463	
1919.....		13,239	323,642	365,389		290,125	724,099	
1909.....		12,339	227,958	123,028		97,646	243,312	
1899.....	7,174	121,643	50,049	113,388		42,715	98,803	

See footnotes at end of table.

## GENERAL SUMMARY

Table B.—GENERAL STATISTICS FOR ALL OPERATING MANUFACTURING ESTABLISHMENTS BY DIVISIONS, STATES, AND STANDARD METROPOLITAN AREAS:  
1954 AND EARLIER YEARS—Continued

(For explanation of column captions see Introduction)

Division, State, Standard Metropolitan Area, and Year	Establishments, number	All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new (\$1,000)	
		Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
West South Central—Continued									
Arkansas:									
1954.....	2,428	78,391	218,473	67,481	134,479	171,109	457,047	42,715	
1953.....		79,575	215,643	68,126	134,236	171,376	427,209	37,990	
1952.....		79,702	206,654	69,976	140,763	166,673	396,134	53,286	
1951.....		(NA)	75,358	179,591	66,757	126,810	143,700	378,979	31,377
1950.....		72,090	154,558	62,622	121,817	124,006	320,723	}	(NA)
1949.....	62,252	123,306	54,052	108,040	95,447	241,901			
1947.....	1,926	65,802	125,200	58,725	(NA)	102,838	267,516	30,262	
1939.....	1,115	41,183	33,352	35,672		24,205	66,444		
1929.....	1,731	48,747	49,446	44,205		39,503	94,255	(NA)	
1919.....	3,044	54,234	56,207	49,693		46,909	96,953		
1909.....	2,925	48,275	22,574	44,982		19,113	39,981		
1899.....	1,746	33,074	11,447	31,525		10,184	21,600		
Louisiana:									
1954.....	3,020	144,757	531,639	114,378	232,019	375,730	1,181,649	174,396	
1953.....		150,808	526,168	121,987	247,186	386,663	1,179,569	222,344	
1952.....		(NA)	134,147	454,370	109,773	222,463	333,540	1,090,597	215,304
1951.....			134,055	411,177	112,083	219,130	304,155	1,073,822	135,087
1950.....			123,952	350,751	100,501	202,449	256,447	915,976	}
1949.....	117,246	311,369	95,822	196,134	228,674	713,057			
1947.....	2,388	132,463	309,869	111,552	(NA)	229,671	694,062	97,210	
1939.....	1,779	87,770	85,273	70,453		54,454	198,527		
1929.....	1,989	97,551	107,960	87,345		83,867	246,497	(NA)	
1919.....	2,489	109,853	116,718	97,742		93,858	243,886		
1909.....	2,516	84,268	42,394	76,165		33,386	89,084		
1899.....	1,826	44,454	17,659	40,878		14,725	35,994		
Mississippi:									
1954.....	2,131	79,851	307,902	60,572	122,530	212,183	580,633	51,740	
1953.....		(NA)	77,455	291,280	60,089	123,859	209,819	553,816	57,270
1952.....			72,172	243,191	57,718	117,320	178,588	493,379	38,272
1951.....			64,072	205,779	51,244	105,100	150,809	433,706	31,939
1950.....		58,062	163,185	45,271	92,275	126,065	344,037	}	(NA)
1949.....	57,365	158,585	45,690	92,434	116,765	300,775			
1947.....	1,740	55,441	143,634	44,349	(NA)	105,327	341,149	25,504	
1939.....	1,530	37,585	47,170	27,642		29,957	101,782		
1929.....	1,658	38,638	57,604	31,695		41,277	149,404	(NA)	
1919.....	2,316	35,445	46,234	29,048		34,423	87,551		
1909.....	2,310	15,336	9,285	13,143		7,240	19,530		
1899.....		2,650	1,113	2,381		894	2,703		
Texas:									
1954.....	(NA)	410,364	1,620,344	313,938	639,565	1,109,061	3,501,706	452,214	
1953.....		408,807	1,566,193	319,637	661,708	1,121,836	3,486,240	437,162	
1952.....		376,115	1,387,366	297,290	631,419	1,001,217	3,206,103	573,754	
1951.....		362,371	1,227,139	289,923	614,558	899,081	2,923,064	412,549	
1950.....		331,820	1,001,317	260,696	557,646	720,829	2,268,663	}	(NA)
1949.....	319,599	922,269	250,107	518,806	651,438	1,813,914			
1947.....	7,129	297,054	755,413	242,015	(NA)	558,422	1,727,476	304,944	
1939.....	5,085	163,978	196,747	125,115		126,364	448,523		
1929.....	5,198	156,143	201,732	134,498		151,827	460,307	(NA)	
1919.....	5,390	124,110	146,230	106,268		114,935	295,709		
1909.....	4,588	80,079	48,775	70,230		37,907	94,717		
1899.....	3,107	41,465	19,830	38,604		16,912	38,506		
Missouri:									
1954.....	3,605	187,493	749,586	144,101	286,848	532,152	1,505,145	126,844	
1953.....		(NA)	183,925	728,013	145,090	292,492	537,725	1,501,645	111,330
1952.....			172,878	644,895	137,194	279,878	482,035	1,269,597	119,631
1951.....			164,736	577,878	133,435	271,407	439,031	1,257,762	107,858
1950.....		154,709	475,231	122,809	247,670	354,347	1,042,063	}	(NA)
1949.....	142,600	422,955	114,427	231,750	315,573	782,868			
1947.....	5,044	140,477	375,900	115,144	(NA)	290,285	783,771	95,023	
1939.....	3,987	89,409	119,074	67,011		79,099	269,381		
1929.....	4,319	118,778	181,403	102,492		144,486	370,056	(NA)	
1919.....	6,675	122,668	169,004	105,794		137,075	303,751		
1909.....	5,254	85,013	69,392	75,435		56,870	135,304		
1899.....	3,146	47,983	31,610	44,497		27,714	76,220		
Montana:									
1954.....	(NA)	18,373	71,289	14,677	27,762	54,098	141,234	20,574	
1953.....		(NA)	17,691	71,599	14,683	28,395	56,937	142,045	22,572
1952.....			17,295	66,610	14,190	28,624	53,007	138,952	10,958
1951.....			17,102	60,952	14,226	28,192	48,828	149,776	(S)
1950.....		16,645	51,942	13,614	26,314	40,842	107,837	}	(NA)
1949.....	16,057	47,316	13,457	25,614	36,983	82,180			
1947.....	650	15,838	42,770	13,380	(NA)	34,791	90,845	7,446	
1939.....	552	11,939	17,286	8,802		11,697	38,828		
1929.....	589	17,135	29,470	14,869		24,215	61,249	(NA)	
1919.....	1,235	18,893	28,623	16,640		23,968	43,079		
1909.....	677	13,035	12,955	11,655		10,901	24,092		
1899.....	395	10,362	8,163	6,854		7,377	22,677		

See footnotes at end of table.

## GENERAL SUMMARY

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Table -B.-GENERAL STATISTICS FOR ALL OPERATING MANUFACTURING ESTABLISHMENTS BY DIVISIONS, STATES, AND STANDARD METROPOLITAN AREAS:  
1954 AND EARLIER YEARS—Continued

(For explanation of column captions see Introduction)

Division, State, Standard Metropolitan Area, and Year	Establishments, number	All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new (\$1,000)		
		Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
Mountain—Continued										
Idaho:										
1954 <sup>1</sup> .....	981	23,722	89,507	20,266	39,442	72,159	182,276	20,627		
1953 <sup>2</sup> .....	(NA)	23,218	86,173	19,558	39,143	70,238	166,904	16,818		
1952 <sup>2</sup> .....		19,623	81,149	17,917	37,059	68,429	142,553	24,861		
1951 <sup>2</sup> .....		19,313	76,821	18,784	38,836	66,464	147,853	(S)		
1950 <sup>2</sup> .....		15,815	56,784	14,562	30,457	46,542	118,675	}	(NA)	
1949 <sup>2</sup> .....		15,250	50,082	13,901	29,247	43,216	91,702			
1947.....	664	16,907	45,748	14,602	(NA)	37,904	109,694	}	11,447	
1939.....	498	11,719	14,697	9,854		11,490	29,788			
1929.....	562	17,023	25,488	15,648		22,452	44,489			
1919.....	803	15,022	20,639	13,575		18,014	35,659			(NA)
1909.....	725	9,078	6,482	8,220		5,498	12,480			
1899.....	287	1,644	884	1,552		818	1,563			
Wyoming:										
1954 <sup>1</sup> .....	328	6,228	26,774	4,587	9,160	18,777	51,361	6,899		
1953 <sup>2</sup> .....	(NA)	6,981	32,293	5,516	11,018	23,233	54,099	14,423		
1952 <sup>2</sup> .....		5,469	23,806	4,241	9,032	17,346	38,094	15,142		
1951 <sup>2</sup> .....		5,874	21,709	4,938	8,632	16,429	37,245	6,098		
1950 <sup>2</sup> .....		7,082	22,734	6,083	10,974	18,308	37,739	}	(NA)	
1949 <sup>2</sup> .....		6,233	20,353	5,152	9,902	16,349	29,513			
1947.....	256	5,607	16,696	4,285	(NA)	12,291	34,957	}	10,235	
1939.....	300	4,416	6,641	3,351		4,613	15,336			
1929.....	248	7,154	12,544	6,258		10,255	33,628			
1919.....	437	7,108	12,227	6,271		10,587	38,142			(NA)
1909.....	268	3,130	2,392	2,867		2,081	3,641			
1899.....	139	2,147	1,300	2,060		1,209	1,899			
Colorado:										
1954 <sup>1</sup> .....	2,069	63,041	247,110	47,941	95,782	172,995	472,433	30,121		
1953 <sup>2</sup> .....	(NA)	58,864	230,377	46,269	93,841	167,807	438,466	26,583		
1952 <sup>2</sup> .....		58,577	209,178	45,450	89,951	150,500	397,464	34,183		
1951 <sup>2</sup> .....		57,344	191,358	44,340	89,258	139,252	393,899	31,141		
1950 <sup>2</sup> .....		55,657	161,773	42,959	84,415	116,176	340,795	}	(NA)	
1949 <sup>2</sup> .....		49,565	145,271	38,897	80,012	103,237	278,626			
1947.....	1,602	54,071	144,207	44,153	(NA)	109,734	286,774	}	32,180	
1939.....	1,219	32,234	43,953	23,388		28,038	90,330			
1929.....	1,548	39,113	57,221	32,890		43,640	122,331			
1919.....	2,230	40,786	53,770	33,759		41,020	97,195			(NA)
1909.....	2,034	32,393	25,560	28,067		19,912	49,553			
1899.....	1,323	21,368	13,766	19,498		11,708	28,317			
New Mexico:										
1954 <sup>1</sup> .....	593	14,955	62,213	9,380	18,518	32,635	126,326	6,585		
1953 <sup>2</sup> .....	(NA)	12,737	57,479	10,350	22,148	39,391	129,248	3,932		
1952 <sup>2</sup> .....		15,364	60,515	12,175	24,407	44,348	128,211	4,773		
1951 <sup>2</sup> .....		14,721	50,423	11,041	20,690	35,726	121,633	5,060		
1950 <sup>2</sup> .....		13,514	38,950	10,755	20,360	27,832	102,897	}	(NA)	
1949 <sup>2</sup> .....		8,740	24,454	7,794	14,937	20,850	51,694			
1947.....	431	6,696	14,964	5,530	(NA)	11,438	32,136	}	5,431	
1939.....	262	4,107	4,182	3,219		2,875	8,640			
1929.....	250	5,070	6,831	4,476		5,565	11,278			
1919.....	387	6,310	7,686	5,736		6,658	10,129			(NA)
1909.....	313	4,478	2,974	4,143		2,591	4,637			
1899.....	174	2,578	1,290	2,490		1,199	2,062			
Arizona:										
1954 <sup>1</sup> .....	817	26,090	109,868	20,267	42,319	80,563	192,497	13,800		
1953 <sup>2</sup> .....	(NA)	23,565	97,778	17,113	36,548	69,368	231,128	7,199		
1952 <sup>2</sup> .....		20,968	79,103	15,908	33,885	58,322	159,753	11,193		
1951 <sup>2</sup> .....		17,415	60,831	14,018	29,886	47,683	156,762	9,483		
1950 <sup>2</sup> .....		14,695	49,621	11,470	25,377	35,744	127,946	}	(NA)	
1949 <sup>2</sup> .....		14,252	43,947	10,229	23,810	30,466	91,681			
1947.....	544	14,188	39,333	11,167	(NA)	29,680	83,829	}	8,328	
1939.....	313	7,996	10,988	5,905		6,955	31,625			
1929.....	348	12,209	19,343	10,550		15,075	32,289			
1919.....	399	9,652	14,725	8,297		11,658	27,478			(NA)
1909.....	311	6,941	6,303	6,441		5,505	16,656			
1899.....	154	3,331	2,557	3,126		2,287	12,562			
Utah:										
1954 <sup>1</sup> .....	852	29,364	117,520	22,553	44,790	82,442	276,343	23,385		
1953 <sup>2</sup> .....	(NA)	34,344	123,290	26,878	51,506	89,860	272,449	15,009		
1952 <sup>2</sup> .....		32,245	110,853	25,045	51,737	81,513	229,876	17,076		
1951 <sup>2</sup> .....		30,061	105,273	24,263	51,483	77,886	223,221	25,057		
1950 <sup>2</sup> .....		28,445	82,443	21,868	46,442	62,706	177,504	}	(NA)	
1949 <sup>2</sup> .....		29,296	80,670	22,849	42,759	57,057	138,268			
1947.....	771	24,503	63,773	19,963	(NA)	48,031	128,250	}	16,988	
1939.....	549	15,537	18,970	11,467		11,873	43,341			
1929.....	651	18,510	26,107	15,601		19,699	56,727			
1919.....	1,035	21,526	26,524	18,442		20,931	45,831			(NA)
1909.....	749	13,445	10,366	11,785		8,400	20,724			
1899.....	575	6,012	3,263	5,413		2,763	6,541			

See footnotes at end of table.



## GENERAL SUMMARY

TABLE B.—GENERAL STATISTICS FOR ALL MANUFACTURING ESTABLISHMENTS BY DIVISIONS, STATES, AND STANDARD METROPOLITAN AREAS:  
1947 AND EARLIER YEARS—Continued

For explanation of column captions, see Introduction.)

Division, State, Standard Metropolitan Area, and Year	Establishments, Number	All employees		Production workers			Value added by manufacturing, (\$1,000)	Capital expenditures, (\$1,000)
		Number	Payroll (\$1,000)	Number	Man.-hours (1,000)	Wages (\$1,000)		
<b>Mountain—Continued</b>								
<b>Nevada:</b>								
1947 <sup>1</sup> .....	177	5,717	25,301	4,426	9,074	18,480	62,672	1,250
1939 <sup>2</sup> .....		6,525	29,024	4,723	9,893	20,891	67,306	1,250
1929 <sup>2</sup> .....		3,337	13,681	2,268	5,183	8,570	34,694	500
1919 <sup>2</sup> .....	(NA)	2,906	10,511	1,825	4,430	6,173	27,373	1,250
1909 <sup>2</sup> .....		2,856	10,984	1,498	3,331	6,197	28,670	1,250
1899 <sup>2</sup> .....		3,207	10,862	2,148	5,469	7,415	19,204	1,250
1947 <sup>1</sup> .....	126	2,667	11,400	2,064		6,416	17,286	1,250
1939 <sup>2</sup> .....	94	1,461	2,357	1,025		1,558	11,493	1,250
1929 <sup>2</sup> .....	123	2,564	4,399	2,200	(NA)	3,585	8,065	1,250
1919 <sup>2</sup> .....	149	3,371	4,810	3,074		4,239	6,238	1,250
1909 <sup>2</sup> .....	177	2,513	2,360	2,257		1,982	3,521	1,250
1899 <sup>2</sup> .....	99	541	387	504		353	599	1,250
<b>Pacific:</b>								
1947 <sup>1</sup> .....	24,132	913,715	2,820,152	745,869	2,027,074	4,186,203	11,183,970	1,250
1939 <sup>2</sup> .....	16,319	523,439	764,247	411,038	2,108,957	4,266,681	10,620,983	1,250
1929 <sup>2</sup> .....	18,154	555,534	909,964	471,246	1,966,435	3,796,655	9,459,239	1,250
1919 <sup>2</sup> .....	17,116	485,308	685,090	426,005	1,826,938	3,311,189	8,423,245	1,250
1909 <sup>2</sup> .....	13,979	242,576	190,638	213,166	1,577,647	2,598,278	7,041,285	1,250
1899 <sup>2</sup> .....	8,329	133,329	74,558	123,206	1,429,295	2,249,729	5,727,800	1,250
<b>Washington:</b>								
1947 <sup>1</sup> .....	4,929	192,354	842,660	148,759	280,777	594,668	1,549,060	1,250
1939 <sup>2</sup> .....		188,708	814,495	151,903	290,379	614,962	1,482,007	1,250
1929 <sup>2</sup> .....		199,559	806,575	163,783	308,801	625,611	1,445,293	1,250
1919 <sup>2</sup> .....	(NA)	192,081	753,834	159,585	304,081	590,253	1,343,983	1,250
1909 <sup>2</sup> .....		161,047	560,249	133,809	256,465	439,206	1,113,362	1,250
1899 <sup>2</sup> .....		156,399	512,987	129,746	246,410	396,433	926,630	1,250
1947 <sup>1</sup> .....	3,409	144,252	437,802	123,442		354,445	874,021	1,250
1939 <sup>2</sup> .....	2,858	99,119	142,565	82,261		108,220	267,716	1,250
1929 <sup>2</sup> .....	3,672	128,740	196,575	114,830	(NA)	160,671	367,149	1,250
1919 <sup>2</sup> .....	4,356	144,331	222,482	131,241		192,473	361,907	1,250
1909 <sup>2</sup> .....	3,674	76,854	59,593	69,120		49,766	102,859	1,250
1899 <sup>2</sup> .....	1,926	33,626	19,129	31,523		17,065	32,554	1,250
<b>Oregon:</b>								
1947 <sup>1</sup> .....	5,870	134,343	561,580	114,464	214,740	447,741	1,037,456	1,250
1939 <sup>2</sup> .....		131,365	550,555	112,887	213,357	448,287	985,834	1,250
1929 <sup>2</sup> .....		136,589	539,818	119,267	222,662	450,663	1,049,151	1,250
1919 <sup>2</sup> .....	(NA)	131,750	496,085	114,710	215,523	411,621	945,875	1,250
1909 <sup>2</sup> .....		118,722	406,472	101,997	195,181	333,176	806,947	1,250
1899 <sup>2</sup> .....		111,060	362,300	96,634	182,819	297,843	633,136	1,250
1947 <sup>1</sup> .....	3,075	105,591	317,827	92,144		265,837	675,017	1,250
1939 <sup>2</sup> .....	1,903	67,222	87,938	57,487		69,574	156,696	1,250
1929 <sup>2</sup> .....	2,463	73,865	106,242	65,505	(NA)	86,829	206,542	1,250
1919 <sup>2</sup> .....	2,478	64,596	93,906	57,832		80,067	158,763	1,250
1909 <sup>2</sup> .....	2,246	32,223	23,949	28,750		19,902	42,452	1,250
1899 <sup>2</sup> .....	1,406	15,602	8,044	14,459		6,822	15,804	1,250
<b>California:</b>								
1947 <sup>1</sup> .....	24,509	1,027,784	4,643,717	771,796	1,531,557	3,143,793	8,597,453	1,250
1939 <sup>2</sup> .....		1,038,881	4,599,112	797,996	1,604,721	3,203,432	8,153,142	1,250
1929 <sup>2</sup> .....		924,027	3,890,564	709,006	1,434,972	2,720,381	6,964,795	1,250
1919 <sup>2</sup> .....	(NA)	836,498	3,279,483	646,049	1,307,334	2,309,315	6,133,387	1,250
1909 <sup>2</sup> .....		738,318	2,609,006	568,659	1,126,001	1,825,896	5,120,976	1,250
1899 <sup>2</sup> .....		655,661	2,240,347	507,312	1,000,066	1,555,453	4,168,034	1,250
1947 <sup>1</sup> .....	17,648	663,872	2,664,523	530,283		1,519,255	3,994,981	1,250
1939 <sup>2</sup> .....	11,558	357,098	533,744	271,290		358,734	1,122,545	1,250
1929 <sup>2</sup> .....	12,019	352,929	607,147	290,911	(NA)	423,099	1,349,191	1,250
1919 <sup>2</sup> .....	10,282	276,381	368,702	236,932		295,726	742,493	1,250
1909 <sup>2</sup> .....	7,659	133,499	107,096	115,296		84,141	204,522	1,250
1899 <sup>2</sup> .....	4,997	84,101	47,385	77,224		39,890	92,491	1,250
<b>STANDARD METROPOLITAN AREAS<sup>3</sup></b>								
<b>Akron:</b>								
1947 <sup>1</sup> .....	669	85,905	389,094	63,170	114,746	259,900	619,497	1,250
1939 <sup>2</sup> .....	482	94,011	284,302	75,289		215,444	460,327	1,250
1929 <sup>2</sup> .....	324	52,602	96,759	41,111	(NA)	65,463	166,444	1,250
1919 <sup>2</sup> .....	353	77,093	132,202	66,871		106,477	280,546	1,250
1899 <sup>2</sup> .....	405	(NA)	(NA)	71,050		102,708	261,175	1,250
<b>Albany-Schenectady-Troy:</b>								
1947 <sup>1</sup> .....	675	71,981	323,518	51,177	101,649	205,508	584,708	1,250
1939 <sup>2</sup> .....	601	71,388	303,664	55,536		147,056	324,346	1,250
1929 <sup>2</sup> .....	537	45,899	68,698	36,217	(NA)	45,981	126,192	1,250
1919 <sup>2</sup> .....	677	67,852	105,244	58,771		83,033	178,252	1,250
1899 <sup>2</sup> .....	405	(NA)	(NA)	71,050		102,708	261,175	1,250

See footnotes at end of table.

## GENERAL SUMMARY

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Table B.—GENERAL STATISTICS FOR ALL OPERATING MANUFACTURING ESTABLISHMENTS BY DIVISIONS, STATES, AND STANDARD METROPOLITAN AREAS: 1954 AND EARLIER YEARS—Continued

(For explanation of column captions see Introduction)

Division, State, Standard Metropolitan Area, and Year	Establishments, number	All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new (\$1,000)
		Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)		
STANDARD METROPOLITAN AREAS <sup>3</sup> —Continued								
Allentown-Bethlehem-Easton:								
1954	1,007	90,265	323,179	74,271	140,359	239,744	593,489	43,417
1947	898	88,614	222,372	76,351		177,547	360,669	31,766
1939	662	67,583	80,781	59,181		62,891	158,236	
1929	783	72,461	107,132	64,919		86,508	216,477	(NA)
1919	1,169	(NA)	(NA)	64,972		72,379	180,335	
Atlanta:								
1954	1,088	78,500	287,673	61,083	121,790	192,992	552,009	24,684
1947	871	49,030	112,164	40,543		81,071	237,448	29,448
1939	620	31,166	32,302	27,692		24,515	81,663	
1929	625	31,473	37,060	26,554		24,878	94,108	(NA)
1919	676	(NA)	(NA)	22,362		21,482	60,993	
Baltimore:								
1954	1,909	188,689	780,813	142,982	282,284	526,305	1,547,473	75,174
1947	1,786	170,164	482,904	138,967		359,378	900,367	161,913
1939	1,885	126,197	171,515	105,786		126,959	342,465	
1929	2,225	110,313	148,187	94,562		110,692	327,520	(NA)
1919	2,967	(NA)	(NA)	113,068		123,529	277,655	
Binghamton:								
1954	289	40,502	159,561	32,523	60,697	112,853	268,720	15,213
1947	(NA)	35,769	(NA)	(NA)		(NA)	159,879	(NA)
Birmingham:								
1954	605	57,762	236,624	46,169	89,227	170,682	481,580	31,518
1947	529	53,359	138,011	44,767		106,659	275,630	29,059
1939	374	31,988	40,440	28,774		33,000	105,409	
1929	419	36,319	49,542	31,544		37,924	111,211	(NA)
1919	440	(NA)	(NA)	28,909		33,009	62,540	
Boston:								
1954	5,474	280,274	1,106,467	211,005	413,125	730,571	1,972,147	68,241
1947	5,393	270,932	750,519	215,046		530,140	1,377,383	72,932
1939	4,378	192,556	273,028	157,230		187,431	508,099	(NA)
Bridgeport:								
1954	725	64,873	279,486	49,577	58,422	193,654	509,938	17,858
1947	584	70,150	253,452	56,033		151,709	341,702	19,254
1939	422	39,779	55,305	34,348		41,594	104,596	(NA)
Buffalo:								
1954	1,829	200,801	933,873	152,882	306,577	655,297	1,677,778	139,477
1947	1,693	183,876	557,384	149,758		424,928	1,023,231	90,261
1939	1,356	115,589	183,753	90,244		125,565	391,785	
1929	1,896	128,704	212,117	108,966		160,766	480,123	(NA)
1919	2,913	(NA)	(NA)	116,633		152,180	346,627	
Cincinnati:								
1954	456	56,762	247,442	45,351	86,705	184,284	449,371	19,083
1947	385	55,564	158,649	47,600		128,551	280,241	15,224
1939	323	32,342	50,343	28,854		42,061	107,807	
1929	338	36,834	67,456	32,202		54,735	142,508	(NA)
1919	584	(NA)	(NA)	34,182		47,876	108,670	
Cleveland:								
1954	410	42,759	143,569	35,724	69,907	107,515	277,314	33,496
1947	(NA)	38,193	(NA)	(NA)		(NA)	149,104	(NA)
Chicago:								
1954	13,456	942,819	4,256,393	718,642	1,419,045	2,897,563	7,893,423	~27,396
1947	12,285	946,041	2,995,636	756,275		2,177,440	5,529,227	421,083
1939	9,058	609,940	941,363	478,126		632,529	1,896,111	
1929	11,693	636,464	1,137,863	527,677		830,322	2,477,970	(NA)
1919	12,399	(NA)	(NA)	520,133		677,239	1,670,150	
Cincinnati:								
1954	1,814	151,317	673,358	111,515	727,922	438,570	1,318,668	73,023
1947	1,688	134,549	379,993	107,364		272,127	775,391	48,336
1939	1,521	83,466	119,166	72,401		90,159	268,017	
1929	2,189	108,088	167,392	90,468		121,721	359,625	(NA)
1919	2,721	(NA)	(NA)	97,166		98,908	284,555	
Cleveland:								
1954	3,744	291,037	1,376,234	222,511	442,641	944,975	2,401,375	217,825
1947	3,252	268,232	865,662	218,494		644,686	1,543,911	91,866
1939	2,441	150,854	240,879	129,358		183,314	504,992	
1929	2,829	191,612	336,550	164,793		257,664	690,275	(NA)
1919	3,182	(NA)	(NA)	169,813		228,927	518,009	
Columbus (Ohio):								
1954	792	72,936	314,521	51,934	105,055	204,464	581,383	34,731
1947	680	54,925	153,551	42,405		105,436	277,964	17,741
1939	500	29,380	39,631	25,309		29,658	90,049	
1929	624	32,603	50,730	27,562		36,911	111,403	(NA)
1919	774	(NA)	(NA)	31,573		37,447	82,882	

1. For 1954, see end of table.

## GENERAL SUMMARY

Table B.—GENERAL STATISTICS FOR ALL OPERATING MANUFACTURING ESTABLISHMENTS BY DIVISIONS, STATES, AND STANDARD METROPOLITAN AREAS:  
1954 AND EARLIER YEARS—Continued

(For explanation of column captions see Introduction)

Division, State, Standard Metropolitan Area, and Year	Establishments, number	All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new (\$1,000)
		Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)		
STANDARD METROPOLITAN AREAS <sup>3</sup> —Continued								
Dallas:								
1954 <sup>1</sup> .....	1,369	72,770	290,812	52,757	107,581	181,510	508,271	20,021
1947.....	(NA)	38,828	(NA)	(NA)	(NA)	(NA)	238,839	(NA)
Dayton:								
1954 <sup>1</sup> .....	770	97,117	463,019	78,375	157,717	350,009	747,419	48,741
1947.....	638	95,347	308,299	79,433	(NA)	240,266	496,380	40,150
1939.....	481	50,532	84,491	40,200	(NA)	60,874	164,963	(NA)
1929.....	555	51,874	87,605	43,778	(NA)	66,085	216,284	(NA)
1919.....	734	(NA)	(NA)	34,331	(NA)	42,916	103,170	(NA)
Denver:								
1954 <sup>1</sup> .....	1,060	40,774	167,289	29,696	60,466	110,874	313,644	17,953
1947.....	(NA)	34,288	(NA)	(NA)	(NA)	(NA)	183,713	12,100
Detroit:								
1954 <sup>1</sup> .....	6,159	538,223	2,773,349	434,365	881,589	2,073,287	4,713,167	480,818
1947.....	4,761	597,241	1,852,316	468,170	(NA)	1,457,651	2,912,660	238,738
1939.....	2,684	372,882	655,102	315,221	(NA)	517,849	1,087,575	(NA)
1929.....	2,844	328,414	626,246	290,980	(NA)	507,375	1,216,159	(NA)
1919.....	2,634	(NA)	(NA)	264,961	(NA)	402,488	958,755	(NA)
Erie:								
1954 <sup>1</sup> .....	422	40,488	171,969	31,786	62,089	122,133	286,397	13,882
1947.....	368	46,285	134,693	38,076	(NA)	103,640	224,906	17,815
1939.....	296	22,974	33,380	19,216	(NA)	24,985	72,110	(NA)
1929.....	366	27,352	45,082	23,022	(NA)	33,568	91,258	(NA)
1919.....	455	(NA)	(NA)	22,944	(NA)	28,930	70,441	(NA)
Fall River: <sup>4</sup>								
1954 <sup>1</sup> .....	343	26,990	73,942	24,650	44,276	61,535	111,675	3,702
Flint:								
1954 <sup>1</sup> .....	286	75,411	387,681	53,979	137,996	316,466	713,846	149,069
1947.....	213	54,774	170,845	47,521	(NA)	140,170	323,205	29,579
1939.....	134	36,873	68,734	33,072	(NA)	59,244	133,499	(NA)
1929.....	136	35,843	62,606	32,001	(NA)	52,642	142,654	(NA)
1919.....	151	(NA)	(NA)	24,884	(NA)	38,589	103,901	(NA)
Fort Worth:								
1954 <sup>1</sup> .....	601	48,367	211,122	37,308	73,993	148,799	368,152	16,527
1947.....	(NA)	32,039	(NA)	(NA)	(NA)	(NA)	146,501	(NA)
Grand Rapids:								
1954 <sup>1</sup> .....	776	52,337	244,270	41,221	86,735	177,077	454,194	27,710
1947.....	694	49,241	147,276	41,961	(NA)	114,990	255,255	15,006
1939.....	468	27,155	37,258	23,882	(NA)	29,168	71,736	(NA)
1929.....	561	35,063	57,548	30,979	(NA)	44,756	96,706	(NA)
1919.....	700	(NA)	(NA)	25,640	(NA)	28,395	63,336	(NA)
Hartford:								
1954 <sup>1</sup> .....	728	76,146	335,065	58,945	121,337	236,367	530,171	21,912
1947.....	583	63,772	189,081	51,999	(NA)	142,650	300,152	18,244
1939.....	415	38,083	59,715	31,588	(NA)	44,112	118,126	(NA)
Houston:								
1954 <sup>1</sup> .....	1,410	77,756	362,976	57,532	118,601	243,154	868,747	87,235
1947.....	915	58,254	181,794	45,671	(NA)	131,073	384,718	86,841
1939.....	620	27,116	41,566	22,600	(NA)	30,423	106,608	(NA)
1929.....	475	26,213	37,909	22,131	(NA)	28,097	93,498	(NA)
1919.....	422	(NA)	(NA)	11,411	(NA)	12,173	31,964	(NA)
Indianapolis:								
1954 <sup>1</sup> .....	1,102	102,233	464,243	74,681	150,971	302,764	844,783	48,209
1947.....	943	92,259	278,506	72,827	(NA)	197,989	483,375	43,610
1939.....	784	50,666	73,782	38,705	(NA)	47,989	138,633	(NA)
1929.....	902	55,504	84,492	46,339	(NA)	60,158	178,962	(NA)
1919.....	1,028	(NA)	(NA)	52,142	(NA)	55,083	135,701	(NA)
Kansas City:								
1954 <sup>1</sup> .....	1,513	115,132	497,764	84,903	168,431	336,026	1,039,592	45,821
1947.....	1,347	78,686	218,970	61,735	(NA)	156,262	469,807	50,037
1939.....	1,023	51,680	73,102	38,085	(NA)	47,410	147,655	(NA)
1929.....	1,163	54,008	80,401	44,203	(NA)	57,076	222,620	(NA)
1919.....	1,392	(NA)	(NA)	48,546	(NA)	55,322	129,365	(NA)
Lancaster:								
1954 <sup>1</sup> .....	612	42,545	150,619	34,663	68,491	110,273	288,553	10,059
1947.....	(NA)	39,139	(NA)	(NA)	(NA)	(NA)	177,965	(NA)
Los Angeles:								
1954 <sup>1</sup> .....	14,400	639,802	2,936,808	470,732	944,148	1,930,520	5,041,546	305,165
1947.....	9,771	358,722	1,118,344	281,806	(NA)	797,090	2,052,671	175,327
1939.....	5,505	172,757	258,967	127,425	(NA)	167,133	517,671	(NA)
1929.....	5,029	127,881	210,001	103,652	(NA)	151,486	505,380	(NA)
1919.....	3,721	(NA)	(NA)	63,255	(NA)	74,291	183,855	(NA)

See footnotes at end of table.



## GENERAL SUMMARY

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Table 4B.—GENERAL STATISTICS FOR ALL OPERATING MANUFACTURING ESTABLISHMENTS BY DIVISIONS, STATES, AND STANDARD METROPOLITAN AREAS:  
1954 AND EARLIER YEARS—Continued

(For explanation of column captions see Introduction)

Division, State, Standard Metropolitan Area, and Year	Establish- ments, number	All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new (\$1,000)	
		Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
STANDARD METROPOLITAN AREAS <sup>3</sup> —Continued									
Louisville:									
1954 <sup>1</sup> .....	814	84,653	354,192	66,502	135,815	252,962	845,031	90,958	
1947.....	744	73,853	193,837	60,878	}	144,248	489,435	59,317	
1939.....	641	39,770	46,757	35,009		(NA)	35,581	128,466	}
1929.....	822	49,459	65,304	42,303		(NA)	48,399	153,178	
1919.....	979	(NA)	(NA)	35,238		(NA)	34,165	90,721	
Memphis:									
1954 <sup>1</sup> .....	632	41,804	152,582	32,310	65,441	103,324	336,167	31,773	
1947.....	(NA)	36,042	(NA)	(NA)	(NA)	(NA)	202,438	(NA)	
Milwaukee:									
1954 <sup>1</sup> .....	1,979	175,802	809,880	129,608	255,419	538,856	1,439,620	68,648	
1947.....	1,961	178,412	538,797	141,111	}	396,643	972,613	63,942	
1939.....	1,465	94,774	147,996	79,473		(NA)	111,135	287,667	}
1929.....	1,939	141,068	233,200	117,658		(NA)	170,962	434,038	
1919.....	2,247	(NA)	(NA)	106,137		(NA)	117,674	302,457	
Minneapolis-St. Paul:									
1954 <sup>1</sup> .....	2,246	134,208	582,387	96,346	193,430	374,557	1,081,364	47,303	
1947.....	2,115	118,741	353,403	93,909	}	238,955	713,462	48,897	
1939.....	1,626	65,359	97,870	48,710		(NA)	62,577	203,011	}
1929.....	1,939	71,504	106,045	58,342		(NA)	73,833	261,080	
1919.....	2,389	(NA)	(NA)	67,138		(NA)	73,866	212,398	
New Bedford: <sup>4</sup>									
1954 <sup>1</sup> .....	291	27,852	83,549	24,135	45,906	65,193	130,298	4,378	
New Britain-Bristol:									
1954 <sup>1</sup> .....	393	43,950	178,017	35,207	68,432	134,555	273,394	15,110	
1947.....	299	45,708	132,524	38,507	}	105,823	205,103	12,277	
1939.....	160	28,408	38,657	23,564		(NA)	28,555	65,681	(NA)
New Haven:									
1954 <sup>1</sup> .....	709	46,566	183,239	36,700	72,021	129,200	298,824	15,615	
1947.....	577	41,503	115,374	34,394	}	86,140	188,528	11,880	
1939.....	459	28,027	33,710	24,528		(NA)	26,244	69,883	(NA)
New Orleans:									
1954 <sup>1</sup> .....	856	53,312	193,617	41,423	81,758	135,236	374,873	64,588	
1947.....	724	45,363	105,210	37,932	}	78,201	222,995	19,306	
1939.....	688	28,679	27,158	25,509		(NA)	19,931	80,810	}
1929.....	851	31,558	35,893	27,065		(NA)	24,839	94,120	
1919.....	923	(NA)	(NA)	30,231		(NA)	27,935	83,836	
New York-Northeastern New Jersey:									
1954 <sup>1</sup> .....	51,403	1,731,977	7,095,016	1,336,116	2,566,509	4,714,688	13,115,922	444,124	
1947.....	48,281	1,598,662	4,919,631	1,269,283	}	3,485,822	9,310,900	421,668	
1939.....	32,132	1,116,708	1,646,817	867,953		(NA)	1,062,156	3,126,135	}
1929.....	36,923	1,110,942	1,988,775	910,870		(NA)	1,399,940	4,452,465	
1919.....	42,293	(NA)	(NA)	1,057,677		(NA)	1,300,273	3,592,026	
Peoria:									
1954 <sup>1</sup> .....	313	37,779	167,348	30,211	59,984	124,639	362,496	20,934	
1947.....	278	42,511	123,726	34,492	}	94,376	280,670	33,905	
1939.....	265	21,962	34,440	18,875		(NA)	28,023	85,046	}
1929.....	268	18,067	27,840	14,773		(NA)	20,143	82,024	
1919.....	383	(NA)	(NA)	12,304		(NA)	13,684	42,519	
Philadelphia:									
1954 <sup>1</sup> .....	8,079	547,042	2,291,639	419,932	827,015	1,564,348	4,023,700	275,789	
1947.....	7,394	531,809	1,530,678	436,996	}	1,139,148	2,772,649	203,521	
1939.....	5,756	393,561	555,590	320,627		(NA)	385,782	1,037,292	}
1929.....	7,136	428,914	663,047	367,784		(NA)	497,430	1,396,529	
1919.....	11,673	(NA)	(NA)	465,487		(NA)	567,866	1,303,034	
Pittsburgh:									
1954 <sup>1</sup> .....	2,381	303,408	1,364,413	239,450	454,510	995,118	2,480,530	164,002	
1947.....	2,227	337,928	1,023,833	283,985	}	807,101	1,704,327	139,524	
1939.....	1,905	229,353	357,044	191,278		(NA)	270,370	640,908	}
1929.....	2,544	248,607	423,336	216,481		(NA)	338,023	835,162	
1919.....	3,796	(NA)	244,991	244,991		(NA)	366,325	803,556	
Portland (Oregon):									
1954 <sup>1</sup> .....	1,787	56,729	239,997	44,840	85,943	172,036	475,021	27,190	
1947.....	1,298	51,643	153,747	42,675	}	119,893	314,273	36,254	
1939.....	943	28,398	38,224	25,017		(NA)	30,679	79,875	}
1929.....	1,307	38,083	56,783	31,576		(NA)	42,254	112,605	
1919.....	1,129	(NA)	(NA)	38,075		(NA)	54,862	111,892	
Providence:									
1954 <sup>1</sup> .....	2,741	130,825	453,830	108,791	219,308	330,670	744,286	29,218	
1947.....	2,366	154,971	397,800	134,268	}	313,131	692,204	37,327	
1939.....	1,411	108,620	125,065	95,411		(NA)	95,033	218,331	(NA)

See footnotes at end of table.

## GENERAL SUMMARY

Table B.—GENERAL STATISTICS FOR ALL OPERATING MANUFACTURING ESTABLISHMENTS BY DIVISIONS, STATES, AND STANDARD METROPOLITAN AREAS: 1954 AND EARLIER YEARS—Continued

For explanation of column captions see Introduction)

Division, State, Standard Metropolitan Area, and Year	Establishments, number	All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new (\$1,000)
		Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)		
STANDARD METROPOLITAN AREAS <sup>2</sup> —Continued								
Reading:								
1954	669	49,130	167,369	41,468	78,141	126,928	294,269	17,415
1947	616	53,024	135,843	46,373		110,795	230,161	14,003
1939	493	46,124	53,975	40,537	(NA)	41,612	83,782	(NA)
1929	567	47,525	67,817	43,487		56,302	117,936	(NA)
1919	1,031	(NA)	(NA)	41,072		39,910	81,355	(NA)
Rochester:								
1954	979	111,385	508,033	83,246	163,733	338,183	919,779	58,810
1947	907	107,493	319,227	85,696		243,932	514,543	57,111
1939	755	67,004	106,494	50,898	(NA)	70,381	207,730	(NA)
1929	1,044	74,107	119,628	62,239		87,844	247,685	(NA)
1919	1,536	(NA)	(NA)	67,553		73,332	195,916	(NA)
St. Louis:								
1954	3,128	251,766	1,060,335	191,375	373,705	725,307	2,053,083	131,164
1947	2,959	244,481	664,597	200,103		490,880	1,295,842	118,925
1939	2,549	162,238	227,865	126,416	(NA)	151,860	461,772	(NA)
1929	3,258	174,798	259,764	147,449		189,423	609,157	(NA)
1919	4,011	(NA)	(NA)	154,311		164,281	454,815	(NA)
San Diego:								
1954	1,075	47,731	221,656	37,310	74,405	156,997	390,218	7,980
1947	(NA)	20,783	(NA)	(NA)	(NA)	(NA)	101,548	(NA)
San Francisco—San Francisco:								
1954	4,106	173,135	793,165	128,746	250,004	539,483	1,673,825	100,950
1947	3,670	163,606	526,626	131,127		393,238	1,048,720	100,000
1939	3,213	101,103	165,356	76,044	(NA)	110,418	361,966	(NA)
1929	3,923	109,119	179,628	89,299		131,461	448,062	(NA)
1919	3,651	(NA)	(NA)	107,080		140,611	360,185	(NA)
Seattle:								
1954	1,447	78,447	354,664	54,931	105,211	220,541	520,928	11,813
1947	1,221	54,770	171,221	44,668		129,910	265,422	11,777
1939	1,137	27,734	42,682	23,581	(NA)	32,971	83,804	(NA)
1929	1,342	34,858	56,609	29,167		41,786	107,252	(NA)
1919	1,405	(NA)	(NA)	47,474		72,842	141,883	(NA)
South Bend:								
1954	330	43,622	201,674	33,025	61,276	140,295	320,106	1,152
1947	259	44,139	144,419	37,158		117,504	234,908	1,111
1939	244	24,178	36,930	20,819	(NA)	29,592	71,555	(NA)
1929	236	35,032	52,915	31,400		43,691	98,430	(NA)
1919	277	(NA)	(NA)	19,957		23,206	50,606	(NA)
Springfield-Holyoke:								
1954	636	74,350	302,543	58,281	115,862	215,158	501,938	17,000
1947	614	81,598	233,024	67,366	(NA)	177,556	373,118	16,000
1939	639	47,525	65,924	38,504		46,090	114,584	(NA)
Syracuse:								
1954	568	57,440	242,617	40,630	81,596	157,002	478,545	24,002
1947	512	54,563	158,093	43,328		116,729	275,257	30,007
1939	381	29,740	40,898	25,563	(NA)	31,592	82,777	(NA)
1929	469	41,031	68,360	35,060		52,556	141,615	(NA)
1919	604	(NA)	(NA)	37,372		43,957	101,577	(NA)
Toledo:								
1954	711	61,123	296,607	46,107	89,475	203,835	534,636	14,000
1947	628	70,588	224,189	57,600		169,729	393,578	14,000
1939	473	37,958	61,161	30,542	(NA)	43,505	111,138	(NA)
1929	605	58,330	97,339	51,646		75,941	206,805	(NA)
1919	714	(NA)	(NA)	44,713		56,910	125,667	(NA)
Trenton:								
1954	443	38,289	157,238	30,069	58,629	112,465	302,999	11,003
1947	402	40,422	113,283	34,094		88,389	208,485	11,000
1939	318	28,406	36,195	25,287	(NA)	28,587	72,054	(NA)
1929	471	27,091	40,251	23,721		31,200	79,449	(NA)
1919	497	(NA)	(NA)	30,515		34,874	78,698	(NA)
Worcester:								
1954	503	42,941	168,193	34,003	65,963	122,010	328,206	11,100
1947	430	50,975	140,601	44,202		113,932	232,985	11,000
1939	383	35,885	41,632	32,263	(NA)	33,651	79,945	(NA)
1929	515	43,212	56,829	37,974		43,871	106,355	(NA)
1919	543	(NA)	(NA)	43,973		45,469	97,553	(NA)
Waterbury:								
1954	391	42,186	179,067	33,970	68,261	129,487	307,565	15,648
1947	295	43,388	125,719	36,386	(NA)	96,557	206,291	13,680
1939	180	32,609	44,795	28,537		34,872	81,371	(NA)

See footnotes at end of table.

## GENERAL SUMMARY

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Table 4B.—GENERAL STATISTICS FOR ALL OPERATING MANUFACTURING ESTABLISHMENTS BY DIVISIONS, STATES, AND STANDARD METROPOLITAN AREAS:  
1954 AND EARLIER YEARS—Continued

(For explanation of column captions see Introduction)

Division, State, Standard Metropolitan Area, and Year	Establish- ments, number	All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new (\$1,000)
		Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)		
STANDARD METROPOLITAN AREAS <sup>2</sup> —Continued								
Wheeling-Steubenville:								
1954 <sup>1</sup> .....	32	49,687	205,685	43,603	80,678	170,052	404,133	55,112
1947.....	343	51,751	147,020	46,484	} (NA) {	125,513	259,509	34,765
1939.....	304	44,001	60,829	41,228		53,969	100,873	
1929.....	426	44,887	73,905	41,066		64,076	129,534	
1919.....	743	(NA)	(NA)	36,464		51,440	101,187	(NA)
Wichita:								
1954 <sup>1</sup> .....	439	53,190	237,206	39,093	82,375	169,904	332,703	5,880
1947.....	(NA)	17,140	(NA)	(NA)	(NA)	(NA)	86,487	(NA)
Wilmington:								
1954 <sup>1</sup> .....	344	37,919	170,700	28,728	55,882	114,450	387,324	24,681
1947.....	(NA)	36,506	(NA)	(NA)	(NA)	(NA)	207,254	(NA)
Worcester:								
1954 <sup>1</sup> .....	768	50,197	201,435	38,555	75,959	137,485	348,165	15,929
1947.....	702	53,251	153,583	43,525	} (NA) {	114,474	241,917	17,661
1939.....	600	38,167	55,961	32,033		40,511	99,796	(NA)
York:								
1954 <sup>1</sup> .....	624	45,275	161,621	36,004	73,779	113,768	282,924	18,262
1947.....	599	42,117	101,061	35,746	} (NA) {	76,865	189,999	15,140
1939.....	455	29,909	30,224	27,114		24,246	66,435	
1929.....	526	33,480	37,891	30,331		29,934	88,991	(NA)
1919.....	1,123	(NA)	(NA)	27,117		23,680	57,243	
Youngstown:								
1954 <sup>1</sup> .....	723	105,646	479,748	88,386	166,522	374,054	873,610	49,129
1947.....	554	109,021	331,712	94,606	} (NA) {	274,351	569,388	33,784
1939.....	429	67,461	110,720	63,010		94,861	200,320	
1929.....	496	74,600	139,583	66,515		118,047	273,627	(NA)
1919.....	764	(NA)	(NA)	63,830		114,650	208,200	

Note: Detailed figures may not equal totals because of independent rounding.

NA Not available.

<sup>1</sup> Withheld because the estimate did not meet publication standards, either on the basis of the associated standard error of estimate or on the basis of consistency review. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volume for this period.

<sup>2</sup> The 1954 figures include data for establishments engaged in the processing of fluid milk, Industry Group 202, Dairy Products. These establishments were not included in the figures for the Annual Survey years 1949-1953 or earlier Census years. In addition, the 1954 Census and Annual Survey years include data for Logging Camps and Contractors, Industry 2411, which were not included within the scope of the 1947 Census and earlier years. There were also a number of changes in the definition of manufacturing industries during earlier Census years that affect the comparability of the historical series. Among the more important of these were: figures for 1935 and later years exclude data for "Railroad repair shops" and "Manufactured gas" which were included in 1899-1933 figures; the minimum size of establishment included for 1934 and 1947 was one employee, for 1939-1921 manufacturing establishments reporting value of shipments of \$5,000 or more were within scope whereas for 1919 and earlier years the cutoff was \$500. (This change in procedure has not appreciably affected the comparability of the historical data except for the figures on number of establishments.)

<sup>3</sup> The employment and payroll figures for operating manufacturing establishments for 1949-1953 are estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard error associated with these estimates are published in the Annual Survey of Manufactures volume for this period.

<sup>4</sup> This report includes only standard metropolitan areas with 40,000 or more manufacturing employees in 1954 or 1947. For definitions of the areas see footnotes to Table 4A.

<sup>5</sup> Data for the Fall River and New Bedford Standard Metropolitan Areas were combined in 1947 and 1939. The combined data for the two years are given below.

Year	Number of establishments	All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new (\$1,000)
		Number	Payroll	Number	Man-hours	Wages		
			(\$1,000)		(1,000)	(\$1,000)		
1947.....	588	62,572	142,422	57,379		122,624	244,346	12,541
1939.....	451	54,791	52,365	48,127	(NA)	39,790	72,661	(NA)



## GENERAL SUMMARY

Table 5.—GENERAL STATISTICS FOR OPERATING MANUFACTURING ESTABLISHMENTS BY SELECTED COUNTIES: 1954 AND 1947

(For explanation of column captions see Introduction. This table presents, by States, statistics for all counties with 2,500 or more employees in manufacturing establishments in 1954. Statistics for at least five counties are, however, shown for each State. For States having fewer than five counties with 2,500 or more manufacturing employees, the next largest counties were added until a total of five was reached)

State and county	Popula- tion, 1950	Estab- lish- ments, number	1954							1947 <sup>1</sup>	
			All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man- hours	Wages (\$1,000)				
Alabama:											
Calhoun.....	79,539	106	12,322	36,224	11,297	20,754	31,159	63,365	1,965	10,381	36,702
Chambers.....	39,528	43	8,209	(D)	7,730	(D)	(D)	(D)	(D)	9,165	(D)
Clarke.....	26,542	76	2,783	5,651	2,637	5,122	4,991	12,515	381	1,830	5,710
Colbert.....	39,561	43	5,323	20,456	4,421	8,986	16,105	42,014	2,785	6,972	29,362
Covington.....	40,373	62	4,879	9,708	4,548	8,522	8,379	13,840	650	3,700	10,008
Dallas.....	56,270	71	2,873	5,292	2,636	4,686	4,312	9,550	479	2,723	8,103
Etowah.....	93,892	93	12,760	47,483	11,309	21,052	39,716	101,712	1,325	15,033	68,831
Jefferson.....	558,928	605	57,762	236,624	46,169	89,227	170,682	481,580	31,518	53,359	275,630
Lee.....	45,073	55	3,491	8,490	3,155	5,830	7,254	16,579	716	2,821	11,894
Madison.....	72,903	60	4,397	12,371	3,944	7,644	10,034	21,176	1,636	4,444	18,686
Mobile.....	231,105	226	15,381	56,703	13,158	26,418	45,324	123,245	8,022	17,581	91,312
Montgomery.....	138,965	192	6,281	17,753	4,738	9,371	11,602	33,057	1,489	5,617	24,942
Morgan.....	52,924	64	4,202	14,110	3,263	6,199	9,852	31,106	3,446	4,105	15,074
Talladega.....	63,639	38	8,392	23,736	7,370	13,445	19,250	54,298	1,724	6,442	26,225
Tallapoosa.....	35,074	70	6,915	17,108	6,514	11,828	14,656	25,370	1,847	7,140	35,479
Tuscaloosa.....	94,092	117	8,148	30,099	7,103	14,775	24,480	64,551	7,200	5,988	30,682
Arizona:											
Apache.....	27,767	15	876	(D)	764	(D)	(D)	(D)	(D)	877	(D)
Cochise.....	31,488	26	1,104	4,960	896	2,043	3,931	6,818	750	1,100	(D)
Gila.....	24,158	21	939	4,018	792	1,576	3,174	6,873	218	826	9,404
Maricopa.....	331,770	461	15,717	66,438	11,935	24,773	47,652	115,281	7,456	7,449	39,656
Pima.....	141,216	150	4,548	20,134	3,340	6,705	13,872	37,438	2,167	1,174	6,015
Arkansas:											
Ashley.....	25,660	46	2,603	3,808	2,368	4,755	7,446	19,042	3,382	2,014	12,797
Hot Spring.....	22,181	47	2,981	10,486	2,643	5,479	8,793	27,517	594	1,903	10,186
Jefferson.....	76,075	75	3,026	8,424	2,493	5,029	5,938	14,618	1,060	2,488	8,316
Ouachita.....	33,051	81	4,295	15,651	3,700	7,622	12,705	37,101	2,239	3,694	18,792
Pulaski.....	196,685	262	11,626	33,889	9,196	18,132	23,182	67,556	3,997	8,809	39,190
Saline.....	23,616	37	3,112	11,658	2,611	5,218	9,070	27,665	9,629	1,839	7,107
Sebastian.....	64,202	136	6,376	19,472	5,201	10,244	14,345	40,887	2,337	5,418	21,737
Union.....	49,686	78	3,955	14,943	3,222	6,575	11,687	46,257	7,111	3,812	27,468
California:											
Alameda.....	740,315	1,404	68,501	308,958	51,676	101,852	215,461	656,993	27,800	66,322	409,206
Butte.....	64,930	115	3,083	11,984	2,649	5,121	9,932	23,023	858	2,606	15,021
Contra Costa.....	298,984	233	28,014	137,238	21,531	42,428	96,943	350,049	51,829	24,316	155,142
Fresno.....	276,515	391	12,747	50,734	9,755	18,921	34,885	117,186	3,875	7,519	57,268
Humboldt.....	69,241	438	12,733	57,704	11,347	22,065	48,503	107,099	10,491	5,872	36,369
Kern.....	228,309	165	3,181	14,258	2,259	4,473	9,204	33,726	2,207	2,904	27,607
Los Angeles.....	4,151,687	13,861	624,047	2,872,004	458,781	920,712	1,887,031	4,925,646	290,260	352,672	2,021,513
Mendocino.....	40,854	266	6,437	28,547	5,673	11,676	24,098	49,902	4,674	2,463	13,386
Monterey.....	130,498	143	3,122	11,733	2,537	4,381	8,449	20,618	3,691	4,093	20,169
Orange.....	216,224	539	15,755	64,804	11,951	23,437	43,488	115,900	14,904	6,100	31,158
Riverside.....	170,046	207	8,517	35,076	6,695	14,037	26,218	68,661	3,450	4,414	27,626
Sacramento.....	277,140	282	10,907	46,787	8,082	15,735	31,362	112,203	11,441	8,320	52,512
San Bernardino.....	281,642	371	12,641	52,269	10,341	19,840	39,517	136,534	25,680	11,186	75,795
San Diego.....	556,808	595	47,731	221,657	37,310	74,405	156,997	390,218	7,986	20,783	101,548
San Francisco <sup>2</sup> .....	775,357	1,901	56,580	253,101	40,984	77,118	166,048	495,815	26,645	61,539	409,556
San Joaquin.....	200,750	266	11,033	45,205	9,017	17,952	34,329	109,352	4,958	9,861	65,610
San Mateo.....	235,659	413	17,021	81,033	12,257	24,158	52,327	143,261	7,386	9,430	60,228
Santa Clara.....	290,547	567	27,942	116,213	21,304	41,433	81,328	263,587	19,914	18,389	116,810
Santa Cruz.....	66,534	99	2,698	9,154	2,258	4,350	6,844	18,947	3,086	1,590	8,619
Shasta.....	36,413	112	3,249	14,899	2,810	5,461	12,338	25,515	3,018	1,264	8,845
Siskiyou.....	30,733	94	3,766	15,792	3,463	6,329	13,787	25,693	2,663	3,456	21,118
Sonoma.....	103,405	271	4,702	16,740	3,846	7,334	12,625	35,271	3,093	2,900	19,146
Stanislaus.....	127,231	175	6,536	24,190	5,292	10,485	17,888	63,258	2,444	5,278	31,727
Tulare.....	149,264	142	3,017	10,877	2,349	4,314	7,632	24,119	1,013	2,663	22,358
Ventura.....	114,647	87	2,700	12,022	1,598	3,131	5,705	20,556	1,265	1,575	8,354
Colorado:											
Arapahoe.....	52,125	61	2,566	11,062	1,935	3,871	7,299	16,912	694	1,318	4,632
Denver.....	415,786	290	33,458	135,265	24,319	49,674	89,776	236,932	13,803	30,876	162,391
El Paso.....	74,523	123	2,717	9,363	1,998	3,893	6,196	17,989	666	1,642	5,563
Jefferson.....	55,687	60	2,396	11,027	1,708	3,412	7,164	26,665	2,123	876	6,305
Pueblo.....	90,188	89	8,675	36,199	7,596	14,752	30,827	72,109	3,025	8,274	38,536
Connecticut:											
Fairfield.....	504,342	1,479	105,895	448,790	80,611	159,182	306,316	817,769	28,469	112,555	561,112
Hartford.....	539,661	1,168	130,848	560,875	102,218	205,379	403,445	873,906	41,740	113,820	525,706
Litchfield.....	98,872	268	16,962	64,556	13,967	27,305	47,354	106,172	7,429	18,205	85,360

See footnotes at end of table.

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Table 5.—GENERAL STATISTICS FOR OPERATING MANUFACTURING ESTABLISHMENTS BY SELECTED COUNTIES: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

State and county	Popula- tion, 1950	Estab- lish- ments, number	1954							1947 <sup>1</sup>	
			All employees		Production workers			Value added by manu- facture	Capital expendi- tures, new	All employees, number	Value added by manu- facture
			Number	Payroll (\$1,000)	Number	Man- hours	Wages (\$1,000)				
Connecticut—Continued											
Middlesex.....	67,332	227	10,088	37,928	8,106	16,475	27,270	68,696	2,468	10,544	42,791
New Haven.....	545,784	1,459	111,938	458,353	9,688	178,890	333,995	779,643	37,611	110,611	530,834
New London.....	144,821	287	22,658	91,788	19,377	39,258	73,632	146,371	9,629	17,900	79,354
Tolland.....	44,709	77	3,123	10,959	2,768	5,696	8,924	19,616	597	4,272	22,671
Windham.....	61,759	125	11,778	39,354	10,138	19,933	30,668	66,188	1,643	12,048	48,883
Delaware (only three counties):											
Kent.....	37,870	69	3,447	8,119	2,879	5,821	6,140	24,014	867	3,082	14,917
New Castle.....	218,879	259	27,278	116,099	21,025	41,042	80,453	251,617	13,008	24,175	121,594
Sussex.....	61,336	192	8,692	27,050	7,083	13,588	18,288	77,450	9,498	7,481	46,562
District of Columbia (no counties).....	802,178	484	20,399	90,083	11,821	22,390	44,743	157,213	6,536	17,815	99,067
Florida:											
Broward.....	83,933	191	2,862	9,409	2,235	4,461	6,499	16,031	1,374	784	3,818
Dade.....	495,084	1,238	24,229	79,470	17,772	34,660	50,009	141,213	9,775	9,271	45,528
Duval.....	304,029	423	17,343	57,854	13,477	27,671	39,941	124,330	10,728	12,771	66,736
Escambia.....	112,706	90	7,955	28,138	6,084	12,402	19,602	68,958	23,453	3,434	21,039
Hillsborough.....	249,894	458	18,509	57,503	14,953	30,056	41,612	114,875	8,432	16,179	59,796
Orange.....	114,950	210	4,125	14,451	2,932	6,098	9,081	34,107	4,385	2,752	10,888
Pinellas.....	159,249	295	4,364	13,247	2,895	7,378	7,572	25,131	1,563	1,954	8,332
Polk.....	123,997	151	8,744	27,449	7,307	15,294	21,039	53,316	17,284	5,076	22,603
Georgia:											
Barrow.....	13,115	27	2,514	4,618	2,319	4,263	3,840	6,097	809	1,841	5,103
Bibb.....	114,079	158	10,094	28,969	8,426	16,787	21,212	65,744	5,073	8,372	34,594
Carroll.....	34,112	73	3,031	6,663	2,780	5,121	5,681	9,594	1,123	2,279	5,416
Chatham.....	151,481	179	13,323	47,275	10,789	22,210	34,108	152,664	8,375	11,042	75,177
Chattooga.....	21,197	20	4,329	11,274	4,056	8,079	9,898	20,606	572	4,752	16,719
Clarke.....	36,550	71	3,476	8,625	3,033	6,324	6,791	15,687	579	2,851	10,211
Cobb.....	61,830	77	18,497	81,314	13,556	27,589	50,866	123,217	4,856	3,517	10,278
Coweta.....	27,786	48	4,150	9,405	3,842	7,080	8,251	17,239	708	3,993	14,232
DeKalb.....	136,395	146	6,907	27,862	5,821	12,144	21,242	70,319	2,897	2,887	9,768
Dougherty.....	43,617	71	3,138	8,910	2,515	5,203	6,188	14,469	3,509	2,053	8,722
Floyd.....	62,899	94	10,353	30,021	8,986	17,644	23,751	46,517	6,103	10,636	47,713
Fulton.....	473,572	865	53,096	178,497	41,706	82,057	120,884	358,472	16,931	42,626	217,402
Glynn.....	29,046	65	3,766	12,290	3,098	6,447	9,237	44,628	2,976	2,187	25,358
Hall.....	40,113	76	5,807	15,405	5,361	10,955	13,518	27,619	1,355	4,923	22,872
Haralson.....	14,663	18	3,092	9,543	2,887	5,369	7,038	14,928	449	2,367	7,548
Misogee.....	118,028	124	17,046	42,068	15,032	28,774	33,195	67,202	3,474	18,889	86,953
Newton.....	20,185	29	3,274	6,946	3,050	5,640	6,238	9,394	659	3,225	(D)
Polk.....	30,976	38	3,696	9,441	3,351	6,104	7,907	19,429	5,211	5,414	16,806
Richmond.....	108,876	126	8,602	24,507	7,152	14,413	17,647	46,453	2,502	8,939	37,295
Spalding.....	31,045	48	7,082	15,884	6,602	12,048	13,865	20,972	547	6,831	24,447
Stephens.....	16,647	38	3,407	8,968	3,065	6,295	7,237	15,867	5,344	3,314	10,120
Troup.....	49,841	69	9,716	22,998	9,147	16,356	20,293	32,802	976	9,927	28,760
Upson.....	25,078	28	5,082	12,964	4,772	8,864	11,742	24,339	3,054	5,897	(D)
Walker.....	38,198	45	5,693	15,122	5,172	10,615	12,724	26,425	1,338	5,009	20,253
Whitfield.....	34,432	153	8,809	19,815	8,077	14,790	16,242	38,126	2,415	5,907	21,801
Idaho:											
Ada.....	70,649	116	1,976	7,303	1,444	2,786	4,782	13,608	730	1,480	7,792
Canyon.....	53,597	57	2,015	6,452	1,654	3,327	4,799	15,721	1,936	1,833	13,692
Kootenai.....	24,947	66	1,759	6,965	1,593	2,987	6,080	12,443	1,369	885	5,526
Nez Perce.....	22,658	39	2,924	(D)	2,610	(D)	(D)	(D)	(D)	2,105	11,138
Shoshone.....	22,806	37	1,472	(D)	1,292	(D)	(D)	(D)	(D)	1,101	(D)
Illinois:											
Adams.....	64,690	112	7,092	24,426	5,500	10,953	17,505	69,749	2,708	9,860	43,193
Coles.....	40,328	54	2,991	8,898	2,606	4,805	7,128	18,854	490	3,375	12,947
Cook.....	4,508,792	12,020	766,568	3,445,448	581,674	1,152,794	2,314,677	6,296,850	288,001	788,872	4,547,449
DeKalb.....	40,781	87	6,014	23,714	4,850	9,525	16,935	43,956	2,663	5,714	28,084
DuPage.....	154,599	226	5,554	22,236	4,360	8,265	15,094	46,527	3,471	2,863	15,554
Henry.....	46,492	56	3,897	13,453	3,112	5,277	9,760	21,801	1,455	4,339	18,356
Kane.....	150,388	369	27,614	117,542	20,498	40,841	76,016	204,487	8,943	26,552	138,002
Kankakee.....	73,524	102	8,883	37,251	6,570	12,917	24,603	90,600	3,765	7,417	37,494
Knox.....	54,336	64	5,262	21,919	4,201	8,057	16,540	40,844	1,690	4,376	21,943
Lake.....	179,097	281	23,857	107,025	17,383	34,212	69,645	212,407	10,852	20,482	139,396
LaSalle.....	100,610	146	17,875	74,361	15,078	30,990	61,142	163,114	8,051	16,839	98,898
McHenry.....	50,656	134	6,797	24,822	5,794	11,495	19,894	55,754	2,116	4,650	22,248
McLean.....	76,577	85	4,534	16,603	3,699	7,457	12,492	39,925	5,833	4,520	26,335
Macon.....	98,853	140	12,184	52,880	8,898	17,887	33,894	98,784	18,070	10,310	82,565

See footnotes at end of table.

## GENERAL SUMMARY

Table 5.—GENERAL STATISTICS FOR OPERATING MANUFACTURING ESTABLISHMENTS BY SELECTED COUNTIES: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

State and county	Popula- tion, 1950	Estab- lish- ments, number	1954						1947 <sup>1</sup>			
			All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)	
			Number	Payroll (\$1,000)	Number	Man- hours (1,000)	Wages (\$1,000)					
Illinois—Continued												
Madison.....	182,307	199	32,825	150,016	24,905	49,579	105,653	332,077	45,693	34,122	199,632	
Ogle.....	33,429	57	3,218	13,330	2,719	5,295	10,393	20,208	1,839	3,097	16,726	
Peoria.....	174,347	242	14,995	68,552	11,443	23,022	47,977	155,545	7,969	17,476	158,056	
Rock Island.....	133,558	198	22,878	102,571	17,356	33,473	72,317	176,773	14,326	28,050	128,515	
St. Clair.....	205,995	251	22,861	96,138	17,700	34,817	68,978	170,059	23,478	25,158	123,885	
Sangamon.....	131,484	155	12,816	53,256	9,579	19,182	36,964	111,208	4,022	12,047	54,976	
Stephenson.....	41,595	69	5,385	20,160	3,900	8,005	13,116	37,615	2,900	4,686	18,846	
Tazewell.....	76,165	71	22,783	98,795	18,768	36,962	76,662	206,951	12,965	25,035	122,614	
Vermilion.....	87,079	125	9,640	37,123	7,857	15,449	27,423	73,468	5,074	7,495	33,377	
Whiteside.....	49,336	68	7,001	29,814	5,562	11,291	22,847	60,840	2,724	6,187	37,573	
Will.....	134,336	199	19,938	87,709	15,209	30,497	63,069	167,838	15,201	14,382	101,448	
Williamson.....	48,621	46	3,332	9,520	2,777	5,186	7,322	22,648	683	1,158	4,876	
Winnebago.....	152,385	439	38,194	177,568	29,318	61,937	124,101	312,770	16,255	35,054	188,535	
Indiana:												
Allen.....	183,722	308	33,012	149,898	23,668	47,353	97,439	282,154	11,785	38,953	224,305	
Bartholomew.....	36,108	84	7,710	31,014	6,125	12,239	22,573	68,110	2,868	6,382	32,374	
Cass.....	38,793	55	3,190	11,113	2,535	4,773	7,823	21,186	432	3,397	15,202	
Clark.....	48,330	46	9,866	45,321	7,807	16,600	34,933	92,536	4,865	3,974	53,969	
Dearborn.....	25,141	40	4,288	15,226	3,607	5,885	11,638	52,973	1,252	5,228	71,661	
DeKalb.....	26,023	69	2,733	10,437	2,140	4,082	6,985	17,199	1,011	2,490	11,147	
Delaware.....	90,252	164	17,453	79,788	14,174	28,239	59,435	149,534	21,128	17,985	106,008	
Dubois.....	23,785	23	3,262	9,928	2,835	5,878	7,864	15,709	489	3,069	13,180	
Elkhart.....	84,512	317	17,153	73,652	13,636	27,057	51,597	153,876	5,708	15,478	83,167	
Fayette.....	23,391	24	5,830	23,373	4,869	8,879	18,195	35,678	2,644	6,521	39,594	
Floyd.....	43,955	69	4,256	13,784	3,418	6,620	9,527	20,096	1,424	3,911	15,132	
Grant.....	62,156	125	10,979	42,040	9,038	17,877	31,389	70,316	6,406	10,688	54,615	
Henry.....	45,505	56	4,639	20,668	3,936	7,972	16,917	32,558	1,082	5,769	25,233	
Howard.....	54,498	87	13,498	57,283	11,404	22,750	45,111	92,110	5,203	11,626	51,022	
Huntington.....	31,400	68	3,729	12,956	2,894	5,622	8,666	22,373	809	3,921	17,671	
Jackson.....	28,237	47	3,168	9,839	2,725	5,491	7,811	18,699	726	3,283	13,584	
Jay.....	23,157	39	3,193	11,644	2,697	5,294	8,154	17,600	1,109	3,343	14,346	
Kosciusko.....	32,002	108	2,968	11,175	2,398	4,828	8,196	22,878	1,084	2,489	11,872	
Lake.....	368,152	361	99,288	476,433	79,518	152,436	359,062	965,314	100,928	92,890	587,378	
La Porte.....	76,808	157	15,921	66,351	11,899	23,954	46,030	111,083	4,536	13,663	70,778	
Lawrence.....	34,346	46	4,939	18,884	4,253	8,199	15,076	28,780	855	2,956	12,314	
Madison.....	103,911	150	25,725	114,815	21,408	43,739	90,739	206,088	15,584	26,048	125,395	
Marion.....	551,777	1,102	102,233	464,243	74,681	150,971	302,764	844,783	48,209	92,259	483,375	
Monroe.....	50,080	63	6,309	21,579	5,710	11,427	18,330	51,700	1,328	3,386	14,150	
Montgomery.....	29,122	39	2,836	11,468	2,324	4,882	8,940	19,085	1,023	2,569	10,923	
Noble.....	25,075	66	2,868	9,193	2,361	4,432	6,933	13,569	1,019	2,324	9,167	
Perry.....	17,369	29	3,439	10,336	3,119	5,639	8,731	19,266	423	3,158	11,763	
Randolph.....	27,141	53	3,695	13,054	3,153	5,966	10,360	21,974	2,139	2,976	12,294	
St. Joseph.....	205,058	330	43,622	201,674	33,025	61,276	140,295	320,106	7,552	44,139	234,908	
Shelby.....	113,026	60	2,721	8,518	2,284	4,380	6,301	11,491	765	2,816	11,346	
Tippecanoe.....	74,473	68	8,293	35,800	6,335	12,545	23,983	67,303	8,067	6,980	37,936	
Vanderburgh.....	160,422	219	32,562	137,178	24,956	48,234	94,373	238,222	7,624	29,053	138,922	
Vigo.....	105,160	159	10,419	40,677	8,031	15,951	28,508	75,688	6,250	9,630	62,213	
Wabash.....	29,047	66	4,454	17,024	3,691	7,370	12,659	31,531	1,252	4,351	17,517	
Wayne.....	68,550	125	12,697	53,855	9,609	19,929	37,636	91,025	3,814	13,599	72,065	
Iowa:												
Black Hawk.....	100,448	143	16,652	72,904	12,631	24,955	51,787	110,908	8,275	17,859	64,547	
Cerro Gordo.....	46,053	60	3,778	14,873	2,939	6,168	10,791	28,586	1,707	3,519	18,475	
Clinton.....	49,664	64	5,605	23,047	4,403	8,796	16,020	60,385	4,595	4,753	31,059	
Des Moines.....	42,056	75	7,117	26,236	5,181	10,294	17,816	73,186	1,541	3,705	19,254	
Dubuque.....	71,337	113	10,322	42,446	8,316	16,847	32,405	73,825	1,517	9,225	37,585	
Jasper.....	32,305	34	4,374	19,291	3,132	6,752	12,369	39,936	5,676	4,287	20,569	
Lee.....	43,102	63	5,973	26,215	4,798	9,311	17,024	62,973	2,637	6,792	39,610	
Linn.....	104,274	196	18,457	75,434	13,399	28,066	50,117	150,759	5,979	14,313	81,333	
Marshall.....	35,611	54	3,401	14,622	2,575	5,434	9,787	32,921	2,577	3,175	16,641	
Muscatine.....	32,148	67	3,586	11,650	2,770	5,740	8,009	19,433	1,001	3,846	15,499	
Polk.....	226,010	385	22,482	94,592	16,047	31,801	61,644	186,245	14,368	16,090	86,907	
Scott.....	100,698	166	12,406	51,817	9,394	18,929	31,441	105,633	4,925	9,272	43,148	
Wapello.....	47,397	51	6,431	26,944	4,910	9,388	19,912	33,893	1,334	6,185	(D)	
Webster.....	44,241	61	4,032	16,519	3,214	6,753	12,588	40,271	1,489	3,210	19,857	
Woodbury.....	103,917	146	9,401	36,651	7,250	14,843	25,761	46,794	2,898	9,889	44,756	
Kansas:												
Johnson.....	62,783	49	5,151	21,983	4,255	8,094	17,361	26,122	2,296	324	1,225	
Montgomery.....	46,437	76	5,262	20,848	4,368	8,656	16,519	37,186	785	3,899	23,460	
Reno.....	54,058	71	2,720	10,540	2,117	4,461	7,318	22,646	1,468	2,585	17,890	

See footnotes at end of table.



## GENERAL SUMMARY

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Table 5.—GENERAL STATISTICS FOR OPERATING MANUFACTURING ESTABLISHMENTS BY SELECTED COUNTIES: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

State and county	Popula- tion, 1950	Estab- lish- ments, number	1954						1947 <sup>1</sup>		
			All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man- hours (1, )	Wages (\$1,000)				
Kansas—Continued											
Sedgwick.....	222,290	439	53,190	237,206	39,093	82,375	169,904	332,703	5,880	17,140	86,487
Shawnee.....	105,418	138	6,010	23,711	4,243	8,291	15,503	56,929	3,138	5,974	29,317
Wyandotte.....	165,318	215	31,375	144,439	23,564	48,472	103,954	353,866	8,435	21,176	136,532
Kentucky:											
Boyd.....	49,949	52	4,993	23,527	4,142	8,112	18,425	48,327	13,271	5,021	31,329
Campbell.....	76,196	55	4,791	19,126	3,932	8,096	14,175	42,807	4,567	5,551	23,345
Daviess.....	57,241	73	7,665	25,561	6,550	12,514	19,955	44,790	3,093	5,821	42,092
Fayette.....	100,746	104	4,317	13,156	3,282	6,524	8,389	26,472	2,151	3,568	12,855
Graves.....	31,364	32	2,756	8,144	2,447	4,801	6,458	13,733	404	2,891	11,107
Jefferson.....	484,615	699	70,530	295,087	55,277	112,593	208,502	732,398	84,668	65,968	420,334
Kenton.....	104,254	99	4,387	19,416	3,142	6,366	11,744	39,548	1,830	3,669	24,248
McCracken.....	49,137	60	5,030	18,490	3,800	7,086	12,189	35,323	772	3,455	11,736
Warren.....	42,758	42	2,633	7,024	2,253	3,877	5,454	18,146	542	2,140	7,822
Louisiana:											
Caddo.....	176,547	187	7,335	26,517	5,496	11,303	18,138	59,531	3,274	6,507	31,081
Calcasieu.....	89,635	101	7,468	35,901	5,566	11,365	25,096	106,851	18,980	5,597	53,195
East Baton Rouge.....	158,236	141	18,882	98,399	12,409	24,836	59,260	254,864	36,875	16,818	132,820
Jefferson.....	103,873	124	12,192	50,949	9,366	19,574	35,510	96,200	49,162	8,473	53,130
Morehouse.....	32,038	24	3,123	(B)	2,598	(D)	(D)	(D)	(D)	2,765	(D)
Orleans.....	570,445	712	36,437	123,450	28,186	54,455	84,632	223,290	11,086	35,302	163,585
Ouachita.....	74,713	131	5,402	19,951	4,488	9,216	14,817	51,540	3,738	3,720	25,646
Rapides.....	90,648	101	3,523	9,681	2,839	6,231	6,445	16,994	819	3,591	13,643
St. Bernard.....	11,087	20	4,683	19,218	3,871	7,729	15,094	55,383	4,340	1,875	8,734
Washington.....	38,371	40	3,898	(D)	3,434	(D)	(D)	(D)	(D)	3,522	(D)
Webster.....	35,704	51	6,314	22,528	5,440	11,515	17,866	50,038	7,532	3,441	(D)
Maine:											
Androscoggin.....	83,594	247	15,240	43,194	13,740	25,348	35,697	71,728	2,602	16,717	76,536
Aroostook.....	96,039	203	3,028	8,831	2,594	5,423	7,382	21,479	3,097	1,897	11,730
Cumberland.....	169,201	358	16,313	54,570	13,761	27,718	41,454	99,252	3,974	13,943	64,171
Franklin.....	20,682	159	3,438	10,004	3,122	6,376	8,644	15,037	1,471	3,878	14,329
Kennebec.....	83,881	176	11,136	33,533	9,833	19,421	27,646	58,676	6,468	11,129	51,566
Knox.....	28,121	112	2,688	7,560	2,386	4,442	6,098	14,175	808	2,196	7,745
Oxford.....	44,221	269	7,524	25,399	6,526	13,907	20,210	38,940	3,602	7,219	26,481
Penobscot.....	108,198	373	12,040	39,640	10,495	22,140	32,065	72,119	29,642	9,440	47,514
Sagadahoc.....	20,911	39	3,947	15,271	3,427	6,398	12,457	31,881	957	4,157	8,792
Somerset.....	39,785	229	6,037	16,417	5,550	11,044	14,232	24,911	1,317	4,513	15,201
Washington.....	35,187	179	3,036	8,172	2,706	5,166	6,708	18,138	1,923	3,103	15,788
York.....	93,541	225	13,007	41,258	11,100	21,448	32,200	66,227	1,276	16,661	72,811
Maryland:											
Allegany.....	89,556	89	8,640	34,217	6,535	13,260	23,848	68,891	5,145	16,921	86,262
Anne Arundel.....	117,392	83	5,615	24,826	3,096	6,364	10,580	33,195	2,820	1,339	6,412
Baltimore City <sup>3</sup> .....	949,708	1,629	117,583	459,349	89,603	177,511	307,542	895,669	52,036	121,162	668,760
Baltimore.....	270,273	197	65,489	296,634	50,281	98,406	208,182	618,604	20,317	47,663	225,195
Carroll.....	44,907	30	4,946	14,324	4,212	8,037	10,461	24,837	1,078	4,144	17,601
Cecil.....	33,356	64	3,054	9,331	2,581	5,067	7,052	15,088	479	1,323	5,463
Dorchester.....	27,815	87	3,965	7,461	3,693	5,977	6,129	11,670	947	3,512	13,352
Frederick.....	62,287	82	3,976	10,599	3,475	6,810	8,513	17,630	916	3,962	12,130
Montgomery.....	164,401	119	3,146	12,570	2,169	4,406	7,037	21,224	1,546	1,531	6,581
Prince Georges.....	194,182	129	4,254	18,067	2,829	5,568	9,973	27,248	1,453	1,499	6,260
Washington.....	78,886	131	14,637	57,632	11,695	23,160	42,417	78,279	1,943	10,469	46,320
Wicomico.....	39,641	99	5,508	13,751	4,748	9,024	10,348	24,313	1,274	4,506	13,129
Massachusetts:											
Berkshire.....	132,966	219	25,843	103,230	19,403	39,040	69,961	197,757	13,258	28,223	136,878
Bristol.....	381,569	1,073	78,378	240,964	68,127	129,498	185,013	378,243	17,062	89,382	367,540
Essex.....	522,384	1,383	87,651	329,066	68,045	130,029	225,824	562,972	19,781	104,376	468,162
Franklin.....	52,747	131	7,034	26,503	5,730	11,541	19,237	47,634	2,316	7,965	37,247
Hampden.....	367,971	840	68,406	279,987	53,534	106,619	198,484	472,215	26,415	74,167	346,414
Hampshire.....	87,594	183	9,706	35,610	8,031	16,141	26,582	58,903	3,286	9,849	42,749
Middlesex.....	1,064,569	2,049	133,754	512,618	104,605	209,944	352,367	922,611	33,105	128,648	634,799
Norfolk.....	392,308	583	36,040	143,671	27,614	55,946	100,180	248,205	12,678	29,249	139,294
Plymouth.....	189,468	497	21,617	68,981	18,031	33,789	50,669	115,734	3,105	21,574	88,738
Suffolk.....	896,615	2,688	101,706	384,903	76,665	144,854	249,259	674,748	19,402	106,824	558,223
Worcester.....	546,401	1,470	106,030	399,591	85,588	168,594	289,468	672,125	29,892	117,248	534,227
Michigan:											
Allegan.....	47,493	95	3,354	13,173	2,758	5,695	9,952	25,821	2,130	2,840	16,760
Alpena.....	22,189	40	2,723	12,022	2,189	4,831	9,173	25,691	4,564	2,057	17,259
Barry.....	26,183	37	2,614	10,443	2,032	4,318	7,619	17,976	856	2,301	13,101
Bay.....	88,461	157	10,691	46,787	8,671	17,745	35,063	68,070	9,499	10,841	50,767

See footnotes at end of table.

## GENERAL SUMMARY

Table 5.—GENERAL STATISTICS FOR OPERATING MANUFACTURING ESTABLISHMENTS BY SELECTED COUNTIES: 1954 AND 1947—Continued

(For explanation of column captions see Introduction)

State and county	Popula- tion, 1950	Estab- lish- ments, number	1954							1947 <sup>1</sup>	
			All employ- ments		Production workers			Value added by manu- facture	Capital expendi- tures, new	All employees, number	Value added by manu- facture
			Number	Payroll (\$1,000)	Number	Man- hours (1,000)	Wages (\$1,000)				
Michigan—Continued											
Berrien.....	115,702	293	20,831	92,240	16,086	31,922	64,013	178,497	9,176	18,344	89,819
Branch.....	30,202	63	2,514	9,609	2,107	4,184	7,494	15,947	961	2,660	12,268
Calhoun.....	120,813	197	21,102	94,073	16,236	31,903	67,824	239,018	7,641	19,758	126,630
Genesee.....	270,963	286	75,410	387,681	63,979	137,996	316,466	713,846	149,069	54,774	323,205
Gratiot.....	33,429	44	3,001	12,201	2,404	4,968	8,549	23,878	2,527	2,829	14,285
Ingham.....	172,941	209	29,394	150,248	24,251	56,037	117,558	318,340	15,350	25,852	155,054
Ionia.....	38,158	69	3,586	13,011	2,992	5,866	9,869	22,607	1,307	3,439	17,159
Jackson.....	107,925	265	15,575	72,444	12,478	24,547	56,746	141,473	5,836	16,261	87,913
Kalamazoo.....	126,707	267	23,948	108,035	18,502	38,729	74,800	221,408	18,369	20,867	150,412
Kent.....	288,292	776	52,337	244,270	41,221	86,735	177,077	454,194	27,710	49,241	255,255
Lenawee.....	64,629	163	11,320	52,570	9,447	19,496	42,063	96,903	3,488	10,426	50,005
Macomb.....	184,961	746	35,120	181,898	28,761	59,182	137,472	281,192	38,496	14,843	106,404
Marquette.....	47,654	139	2,588	7,434	2,195	4,078	5,865	13,975	788	2,611	10,318
Menominee.....	25,299	107	3,002	10,572	2,458	4,930	8,021	18,936	1,404	2,847	12,376
Midland.....	35,662	37	11,023	(D)	7,162	(D)	(D)	(D)	(D)	7,963	(D)
Monroe.....	75,666	100	8,655	44,427	7,232	15,181	34,734	67,984	3,487	6,820	44,630
Montcalm.....	31,013	54	3,485	14,443	2,615	5,228	9,912	27,108	943	3,612	22,041
Muskegon.....	125,545	197	25,272	116,326	20,345	39,485	86,815	186,973	17,985	30,187	142,616
Oakland.....	396,001	1,051	57,624	300,460	47,184	97,954	225,631	531,955	64,350	44,566	261,462
Ottawa.....	73,751	227	11,475	49,460	9,647	19,599	35,256	92,137	5,060	10,093	55,873
Saginaw.....	153,515	228	26,625	124,462	21,883	45,203	95,799	236,980	31,437	22,141	115,187
St. Clair.....	91,599	164	9,547	42,376	7,353	14,678	29,896	72,929	3,624	10,457	54,313
St. Joseph.....	35,071	121	6,483	24,471	5,352	10,975	19,168	54,110	2,760	5,914	33,028
Shiawassee.....	45,967	75	3,621	14,202	2,946	6,020	10,658	20,906	1,422	4,695	20,209
Van Buren.....	39,184	93	3,302	11,718	2,895	5,386	8,900	23,530	1,629	2,811	12,206
Washtenaw.....	134,606	194	21,163	99,821	17,202	33,970	75,033	172,533	24,653	23,065	120,298
Wayne.....	2,435,235	4,362	445,478	2,290,990	358,419	724,452	1,710,181	3,900,018	377,971	497,832	2,544,794
Minnesota:											
Anoka.....	35,579	44	5,060	24,080	4,508	9,746	20,994	35,198	1,115	2,148	14,022
Carlton.....	24,584	33	3,751	14,979	3,233	6,548	11,673	31,569	2,376	3,117	16,719
Dakota.....	49,019	51	7,954	35,666	6,163	13,557	27,054	37,592	2,365	7,826	32,310
Freeborn.....	34,517	58	3,127	11,504	2,317	4,806	8,196	17,588	905	2,840	17,026
Hennepin.....	676,579	1,511	71,267	300,033	50,780	100,721	186,854	536,293	19,721	66,365	385,211
Mower.....	42,277	32	5,558	(D)	4,140	(D)	(D)	(D)	(D)	5,135	(D)
Ramsey.....	355,332	640	49,922	222,593	34,895	69,407	139,657	472,239	24,102	44,096	281,919
St. Louis.....	206,062	382	11,189	43,598	8,975	17,014	31,911	66,459	5,390	11,543	46,228
Stearns.....	70,681	108	2,729	9,181	2,197	4,772	6,979	19,258	993	1,785	8,698
Washington.....	34,544	44	3,580	16,513	2,825	5,515	11,810	35,394	1,815	2,831	11,177
Winona.....	39,841	96	3,297	11,552	2,636	5,376	8,017	20,813	1,719	3,239	16,683
Mississippi:											
Adams.....	32,256	47	3,997	14,947	3,457	7,016	12,272	49,922	1,782	2,819	9,106
Forrest.....	45,055	68	3,071	8,214	2,554	4,965	6,066	20,309	766	2,826	16,489
Harrison.....	84,073	116	3,525	8,518	3,085	5,297	5,788	15,241	1,714	2,871	7,778
Hinds.....	142,164	185	7,421	21,557	5,870	11,884	14,579	46,940	3,761	6,694	30,373
Jackson.....	31,401	47	7,528	30,409	7,113	12,660	27,811	52,419	3,934	6,256	(D)
Jones.....	57,235	79	6,078	18,520	5,340	10,718	15,058	38,534	1,456	6,528	34,866
Lauderdale.....	64,171	112	4,245	10,896	3,527	9,414	7,961	19,215	1,133	4,321	18,235
Lee.....	38,237	41	3,133	6,906	2,774	5,264	5,344	15,909	781	1,833	7,396
Lowndes.....	37,852	52	2,904	6,880	2,568	5,158	5,334	12,217	2,200	2,623	8,984
Warren.....	39,616	47	2,616	8,088	2,062	4,466	5,637	11,792	3,097	2,415	9,683
Missouri:											
Audrain.....	23,829	33	3,439	12,759	2,688	5,221	8,750	22,335	1,099	3,919	14,129
Buchanan.....	96,826	124	11,207	42,574	8,396	16,694	29,403	64,441	3,052	11,125	52,734
Cape Girardeau.....	38,397	70	3,197	8,292	2,783	5,054	6,793	19,050	621	3,705	11,868
Clay.....	45,221	103	10,466	46,020	7,514	14,938	29,360	103,656	3,416	7,240	52,151
Franklin.....	36,046	69	4,551	11,567	4,156	7,439	9,869	23,563	327	4,038	10,238
Greene.....	104,823	180	6,682	20,697	5,195	10,686	14,563	48,283	6,229	5,295	18,506
Jackson.....	541,035	1,146	68,137	285,320	49,567	96,925	185,350	555,946	31,672	49,946	279,899
Jasper.....	79,106	146	7,525	25,383	6,223	12,454	19,327	44,468	3,240	5,500	25,216
Jefferson.....	38,007	33	3,759	19,637	3,103	6,765	16,218	35,231	2,686	4,438	30,560
Marion.....	29,765	41	2,579	7,165	2,146	3,861	5,510	12,979	238	2,976	9,566
St. Louis.....	406,349	419	35,678	160,712	25,588	51,348	104,889	326,687	11,012	10,347	58,596
St. Louis City <sup>3</sup> .....	856,796	2,230	158,092	644,120	121,575	234,639	439,748	1,207,787	50,642	172,592	909,096
Montana:											
Cascade.....	53,027	56	2,559	9,914	1,924	3,306	6,778	27,382	2,747	2,736	15,792
Deer Lodge.....	16,553	14	2,224	(D)	1,661	(D)	(D)	(D)	(D)	1,922	(D)
Lincoln.....	8,693	72	1,417	5,873	1,242	2,395	4,894	11,507	2,202	733	4,086
Missoula.....	35,493	79	2,273	9,277	1,916	3,755	7,395	15,774	1,438	1,800	8,416
Yellowstone.....	55,875	84	2,410	10,359	1,753	3,563	7,076	22,058	6,628	1,822	14,043

See footnotes at end of table.

## GENERAL SUMMARY

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Table 5.—GENERAL STATISTICS FOR OPERATING MANUFACTURING ESTABLISHMENTS BY SELECTED COUNTIES: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

State and county	Popula- tion, 1950	Estab- lish- ments, number	1954							1947 <sup>1</sup>	
			All employees		Production workers			Value added by manu- facture	Capital expendi- tures, new	All employees, number	Value added by manu- facture
			Number	Payroll (\$1,000)	Number	Man- hours (1,000)	Wages (\$1,000)				
Nebraska:											
Dodge.....	26,265	44	1,586	6,287	1,227	2,485	4,657	8,819	583	655	3,420
Douglas.....	281,020	470	28,150	114,689	21,270	44,259	79,810	202,260	11,421	25,887	159,758
Hall.....	32,186	48	2,274	8,251	1,547	3,224	5,127	10,793	745	810	4,915
Lancaster.....	119,742	141	8,681	32,342	6,727	13,178	23,578	63,898	2,935	7,522	34,367
Saunders.....	16,923	11	1,398	(D)	1,096	(D)	(D)	(D)	(D)	203	99
Nevada:											
Clark.....	48,289	59	3,109	13,835	2,322	4,805	9,837	39,169	3,775	915	6,616
Douglas.....	2,029	5	55	234	36	52	102	637	55	38	(D)
Elko.....	11,654	8	52	142	33	56	92	212	(D)	(D)	(D)
Washoe.....	50,205	75	1,666	7,503	1,327	2,724	5,438	13,974	693	1,202	6,015
White Pine.....	9,424	4	530	(D)	464	(D)	(D)	(D)	(D)	354	(D)
New Hampshire:											
Belknap.....	26,632	93	3,844	12,352	3,053	6,052	8,795	21,367	815	4,627	19,186
Cheshire.....	38,811	152	6,006	20,603	5,179	10,443	15,823	34,971	1,328	5,566	24,001
Cook.....	35,932	111	5,297	18,515	4,559	9,331	15,274	33,288	3,310	3,939	(D)
Grafton.....	47,923	150	3,901	11,788	3,452	7,184	9,847	17,797	655	4,093	15,932
Hillsborough.....	156,987	438	31,616	100,005	27,149	51,724	77,223	166,355	6,272	31,845	132,176
Merrimack.....	63,022	190	5,648	17,997	4,907	9,819	14,712	26,660	1,177	6,354	26,135
Rockingham.....	70,059	165	5,852	17,448	5,114	9,726	13,546	28,229	2,406	4,235	13,119
Strafford.....	51,567	136	10,505	33,003	8,923	17,139	25,243	57,512	1,570	9,481	37,603
Sullivan.....	26,441	81	3,581	11,506	2,927	5,569	8,610	19,536	803	3,933	17,293
New Jersey:											
Atlantic.....	132,399	252	6,202	18,428	5,219	9,638	13,875	28,384	1,566	6,057	23,212
Bergen.....	539,139	1,499	82,818	367,934	60,495	121,098	235,112	654,901	20,224	52,508	325,495
Burlington.....	135,910	244	13,353	55,847	10,998	22,357	42,567	99,419	14,329	12,516	58,388
Camden.....	300,743	507	46,283	203,115	36,845	72,070	142,038	368,045	13,922	43,971	227,648
Cumberland.....	88,597	257	18,350	61,414	15,705	29,948	47,284	109,242	9,257	16,485	71,027
Essex.....	905,949	2,817	143,101	611,593	105,778	208,076	390,195	1,067,606	51,334	142,892	798,016
Gloucester.....	91,727	164	9,484	41,814	7,118	13,920	28,352	71,805	21,508	7,152	48,052
Hudson.....	647,437	2,363	133,063	569,410	100,902	195,838	380,317	1,119,182	41,723	144,039	889,898
Hunterdon.....	42,736	70	3,540	13,187	3,054	6,238	10,521	24,027	2,755	4,123	24,056
Mercer.....	229,781	443	38,289	157,238	30,069	58,629	112,465	302,999	14,903	40,422	208,485
Middlesex.....	264,872	651	65,529	284,183	51,462	102,226	199,495	608,462	43,165	59,614	334,239
Monmouth.....	225,327	406	14,014	46,647	11,441	18,922	33,947	96,556	3,435	11,587	56,589
Morris.....	164,371	352	17,650	72,290	13,720	28,003	49,483	160,471	7,860	12,837	82,167
Passaic.....	337,093	1,457	72,310	295,596	58,531	114,066	216,379	507,788	19,500	78,521	376,137
Salem.....	49,508	49	10,641	54,600	7,703	14,840	33,996	135,707	11,672	12,331	85,660
Somerset.....	99,052	166	15,669	69,185	11,439	22,006	44,489	127,265	8,024	14,217	83,366
Union.....	398,138	1,086	81,174	370,880	61,639	123,360	255,582	736,896	68,957	67,033	437,098
Warren.....	54,374	118	10,051	38,144	8,004	16,113	28,003	71,059	2,474	9,130	41,451
New Mexico:											
Bernalillo.....	145,673	180	9,281	43,525	4,822	9,442	18,656	85,740	2,957	1,954	8,743
Chaves.....	40,605	27	512	1,899	346	729	1,008	3,735	303	459	2,567
Eddy.....	40,640	28	602	2,401	464	964	1,750	6,040	970	368	2,503
Grant.....	21,649	12	468	1,836	394	833	1,542	5,051	104	371	(D)
Santa Fe.....	38,153	37	450	1,262	332	637	803	1,595	131	457	1,787
New York:											
Albany.....	239,386	336	22,500	91,788	17,143	34,131	62,339	159,022	7,101	22,273	116,711
Allegany.....	43,784	80	3,226	13,016	2,460	4,864	9,028	25,909	849	3,032	14,334
Bronx (Bronx Borough)*.....	1,451,277	2,078	52,472	184,843	42,990	81,879	132,417	323,030	8,256	41,323	194,500
Broome.....	184,698	289	40,502	159,561	32,523	60,697	112,853	268,720	15,213	35,769	159,879
Cattaraugus.....	77,901	139	8,716	34,225	6,762	13,544	23,782	56,382	2,244	8,681	45,334
Cayuga.....	70,136	134	8,197	32,354	6,431	12,644	23,294	53,350	1,750	10,088	48,081
Chautauqua.....	135,189	326	22,743	92,010	18,884	38,807	72,491	162,708	5,682	22,560	109,776
Chemung.....	86,827	109	16,203	65,634	13,262	26,891	50,715	132,627	6,396	16,358	74,571
Chenango.....	39,138	96	4,045	14,840	3,048	6,433	9,356	38,014	1,003	3,052	20,525
Columbia.....	43,182	90	4,168	14,507	3,370	7,000	10,318	29,180	1,226	4,647	23,302
Cortland.....	37,158	86	5,095	16,648	4,237	8,667	12,485	33,473	711	5,279	27,357
Delaware.....	44,420	88	5,762	22,458	4,221	8,615	15,038	36,025	1,218	3,158	14,247
Dutchess.....	136,781	232	20,191	93,723	15,047	31,260	61,990	153,288	6,942	14,692	70,587
Erie.....	899,238	1,529	148,247	679,214	114,180	228,112	484,674	1,213,897	109,034	139,985	752,621
Fulton.....	51,021	273	7,754	21,939	6,916	12,652	17,606	34,230	1,042	10,840	37,506
Genesee.....	47,584	80	6,760	27,135	5,684	11,925	21,587	56,428	3,854	6,169	33,795
Herkimer.....	61,407	128	12,539	44,635	10,304	19,963	34,141	92,457	2,365	15,232	63,154
Jefferson.....	85,521	145	6,285	23,379	5,131	10,664	17,751	44,415	2,682	7,199	31,782
Kings (Brooklyn Borough)*.....	2,738,175	7,851	235,634	857,477	196,205	369,517	623,083	1,530,186	45,032	229,632	1,178,730
Livingston.....	40,257	60	2,926	9,642	2,321	4,588	6,877	18,305	668	3,262	12,103
Monroe.....	487,632	979	111,385	508,033	83,246	163,733	338,183	919,779	58,810	107,493	514,543
Montgomery.....	59,594	106	10,652	37,066	8,929	17,380	29,171	76,702	2,552	13,866	74,015

See footnotes at end of table.



## GENERAL SUMMARY

Table 1.—GENERAL STATISTICS FOR OPERATING MANUFACTURING ESTABLISHMENTS BY SELECTED COUNTIES: 1934 AND 1947—Continued  
(For explanation of column captions see Introduction.)

State and county	Popula- tion	Estab- lish- ment number	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Average hours per employee
			Number	Payroll (\$1,000)	Number	Man- hours (1,000)	Average hours per employee (\$1,000)				
New York—Continued											
Albany.....	1,100	1,003	523,432	2,061,173	397,286	731,268	1,279,763	3,761,244	55,451	554,701	1,441,847
New York (Manhattan) borough.....	1,960,101	25,040	52,554	254,659	38,702	78,465	170,623	463,441	30,443	43,891	210,610
Oneida.....	222,855	375	30,402	123,558	23,699	46,000	87,869	235,749	7,826	35,743	175,257
Orleans.....	341,719	568	57,440	242,617	40,630	81,596	157,002	478,545	24,942	54,563	175,257
Putnam.....	60,172	92	4,379	16,378	3,557	7,142	12,154	28,727	1,245	5,383	13,577
Rensselaer.....	152,255	341	15,456	51,540	13,287	25,300	39,357	93,032	3,858	13,878	13,878
Saratoga.....	77,181	131	7,862	31,070	6,097	12,668	21,586	61,295	4,118	10,493	10,493
Queens (Queens Borough)*.....	1,550,849	2,772	125,788	519,008	99,197	195,525	352,784	944,623	30,023	97,013	171,265
Rensselaer.....	132,607	202	13,201	46,165	10,491	20,002	31,594	96,552	2,624	15,190	15,190
Rensselaer (Rensselaer borough).....	191,555	202	10,515	44,326	8,236	15,659	31,740	112,382	4,923	10,620	10,620
Schoharie.....	89,276	151	10,907	44,017	8,804	18,344	31,200	138,513	5,201	7,893	13,255
Schoharie.....	127	9,961	41,273	8,337	17,727	32,977	75,615	3,745	8,253	4,952	4,952
Schoharie.....	74,866	127	29,179	6,727	13,517	22,531	49,957	4,716	7,397	17,425	17,425
Schoharie.....	142,497	137	36,280	185,565	23,543	47,516	111,575	329,134	34,902	33,925	143,347
Schoharie.....	29,253	34	3,141	13,356	2,399	5,108	9,292	26,870	2,504	2,665	1,737
Steuben.....	91,439	115	14,234	58,841	10,803	21,716	38,906	111,376	5,260	11,596	55,447
Suffolk.....	276,129	567	41,410	197,756	31,828	66,244	133,516	345,867	6,485	13,213	49,115
Suffolk.....	59,122	70	4,504	16,805	3,820	7,593	13,336	29,985	1,388	4,728	11,627
Suffolk.....	92,621	43	9,185	28,559	8,067	15,622	23,185	46,153	1,861	7,412	14,700
Suffolk.....	39,205	47	4,441	15,923	3,602	7,408	11,277	28,066	1,995	4,074	11,745
Washington.....	47,144	104	4,914	18,634	3,878	7,847	13,011	40,927	1,988	5,054	2,901
Washington.....	57,323	111	20,664	4,548	9,456	13,686	38,133	2,984	4,501	23,475	23,475
Westchester.....	625,816	1,208	51,088	208,532	38,412	75,824	138,849	422,478	15,868	46,761	103,424
Westchester.....	32,822	—	—	9,675	2,481	5,039	7,520	18,135	947	3,138	13,138
North Carolina:											
Alamogordo.....	71,220	153	18,639	56,980	15,963	30,926	43,171	104,532	3,716	15,930	76,454
Buncombe.....	124,403	163	11,071	35,391	8,758	17,645	24,251	54,838	6,909	11,942	56,497
Chatham.....	45,518	102	8,291	22,096	7,574	14,109	18,051	36,168	3,278	7,201	13,641
Greene.....	63,783	63	22,239	55,136	21,133	38,310	50,126	76,384	1,764	22,525	112,616
Haywood.....	43,352	83	9,041	23,396	8,290	16,578	19,685	39,351	1,034	8,083	24,766
Wayne.....	61,794	288	15,568	36,353	14,184	26,047	29,834	59,972	3,765	12,931	47,045
Wayne.....	25,392	99	3,302	8,193	2,970	5,450	6,689	13,795	1,149	1,853	7,126
Wayne.....	64,357	76	7,995	20,363	7,340	14,455	17,271	28,396	1,587	7,923	14,357
Wayne.....	96,006	76	4,187	10,331	3,679	7,388	8,032	16,813	751	3,400	1,382
Wayne.....	62,244	181	13,424	34,000	12,231	22,964	27,323	52,842	2,449	11,449	42,429
Wayne.....	101,639	122	13,076	39,598	11,392	21,628	32,419	144,539	7,320	16,159	101,001
Wayne.....	146,135	177	29,930	96,515	24,498	46,431	69,027	303,756	18,956	27,368	177,425
Wayne.....	110,836	219	27,192	68,685	25,269	48,741	59,734	115,165	7,307	29,607	113,377
Wayne.....	191,057	509	37,380	104,332	33,045	59,654	77,484	169,106	8,190	28,843	127,935
Halifax.....	58,377	85	5,713	14,075	5,196	9,597	11,836	23,244	1,607	5,610	21,930
Harnett.....	47,605	56	2,632	5,773	2,519	4,220	5,376	9,071	418	2,296	11,112
Haywood.....	37,631	35	4,961	20,929	3,856	7,820	15,622	48,436	4,749	4,405	22,421
Iredell.....	56,303	132	9,349	23,626	8,526	16,201	19,845	37,397	2,003	8,651	34,265
Wayne.....	65,906	66	2,531	5,356	2,346	4,320	4,554	8,294	319	2,181	7,335
Wayne.....	23,522	71	3,472	8,434	3,132	6,322	6,799	14,420	1,237	1,865	7,335
Wayne.....	45,953	71	4,278	14,388	3,291	6,353	8,722	40,312	3,356	2,271	11,112
Wayne.....	27,459	71	3,061	6,714	2,848	5,381	5,792	9,697	272	3,350	17,397
Wayne.....	25,720	51	5,026	13,276	4,705	9,379	11,608	23,811	1,078	3,185	11,112
Wayne.....	197,052	—	21,635	68,387	17,067	33,653	45,829	128,740	5,589	18,200	11,112
Wayne.....	17,260	—	3,392	6,651	3,115	5,252	5,491	10,597	279	2,370	7,451
Wayne.....	33,129	89	2,657	6,648	2,348	4,679	5,316	10,925	221	2,466	7,741
Wayne.....	59,919	67	3,905	9,647	3,344	6,431	7,187	21,510	811	2,901	11,005
Wayne.....	63,272	101	5,129	13,832	4,195	8,472	10,217	25,820	1,405	3,329	11,112
Wayne.....	50,804	200	11,807	31,566	10,817	20,866	27,227	51,826	2,252	8,865	31,117
Wayne.....	39,597	54	4,349	12,130	4,052	8,146	10,776	17,760	1,478	4,081	11,112
Wayne.....	87,769	67	2,983	7,213	2,753	5,412	6,232	10,579	596	1,112	11,112
Wayne.....	64,816	83	10,075	28,137	9,267	16,648	23,914	91,743	1,631	11,744	11,112
Wayne.....	75,410	111	7,838	19,627	7,148	12,874	16,071	29,633	1,631	7,835	11,112
Wayne.....	46,356	—	7,216	17,924	6,681	12,689	15,466	30,544	2,309	6,703	11,112
Wayne.....	—	30	2,851	6,716	2,654	5,191	5,941	10,326	1,203	1,999	11,112
Wayne.....	37,130	64	6,976	18,272	6,395	11,140	15,356	30,187	1,464	6,627	11,112
Wayne.....	45,593	107	8,255	20,686	7,728	14,521	17,350	30,626	766	6,763	11,112
Wayne.....	15,194	27	2,901	10,687	—	4,361	6,693	24,899	—	2,654	11,112
Wayne.....	32,101	—	2,571	6,038	2,344	4,030	4,810	9,650	480	2,736	11,112

See footnotes at end of table.



## GENERAL SUMMARY

Table 1.—GENERAL STATISTICS FOR OPERATING MANUFACTURING ESTABLISHMENTS BY SELECTED COUNTIES: 1934 AND 1947—Continued  
(For explanation of column captions see introduction)

State and county	Popula- tion, 1950	Estab- lish- ments, number	1954							194 <sup>1</sup>	
			All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man- hours (1,000)	Wages (\$1,000)				
Oregon:											
Clackamas.....	86,716	284	5,077	21,413	4,411	8,283	17,642	44,219	4,215	4,120	26,315
Clatsop.....	30,776	105	3,101	11,429	2,802	4,714	9,616	16,029	648	3,176	17,673
Columbia.....	22,967	113	2,760	10,962	2,486	4,345	9,351	20,885	3,230	2,942	22,115
Coos.....	42,265	303	6,985	30,257	6,290	11,514	25,826	52,601	7,896	3,749	26,631
Douglas.....	54,549	545	9,564	41,842	8,791	16,511	37,179	80,612	5,725	5,296	38,162
Jackson.....	58,510	259	4,987	21,308	4,390	8,176	17,629	37,636	2,815	2,878	22,604
Klamath.....	42,150	72	3,779	16,272	3,348	6,383	13,926	26,571	1,507	2,971	28,232
Lane.....	125,776	700	13,980	60,059	12,155	22,929	49,544	109,063	8,080	8,721	59,346
Lincoln.....	21,308	190	2,507	9,615	2,245	3,757	7,992	16,370	1,618	1,840	10,912
Linn.....	54,317	257	6,510	27,575	5,904	11,249	24,201	53,971	2,980	4,571	32,799
Marion.....	101,401	256	5,127	18,972	4,252	8,224	14,658	39,821	2,002	5,287	30,257
Multnomah.....	471,537	1,180	40,228	173,174	30,922	59,357	118,783	315,481	11,405	39,235	225,166
Polk.....	26,317	113	2,878	10,387	2,604	4,514	9,114	21,373	907	2,110	15,007
Tillamook.....	18,606	174	2,648	10,183	2,385	4,005	8,617	15,616	1,103	1,186	6,336
Umatilla.....	41,703	67	2,532	9,416	2,172	4,183	8,178	16,755	1,684	2,000	12,281
Washington.....	61,269	189	2,991	10,987	2,501	4,652	8,393	27,288	1,379	1,670	10,046
Pennsylvania:											
Adams.....	44,197	106	5,570	14,800	4,990	9,910	11,569	24,825	1,379	5,114	17,229
Allegheny.....	1,515,237	1,680	194,898	889,005	150,178	284,914	628,904	1,653,928	106,697	222,460	1,139,275
Armstrong.....	80,842	100	6,628	29,390	5,511	10,848	23,445	74,470	2,111	7,666	74,896
Beaver.....	175,192	194	47,005	210,626	38,833	73,622	162,453	394,118	26,833	44,428	233,161
Berks.....	255,740	669	49,130	167,369	41,468	78,141	126,928	294,269	17,415	53,024	230,161
Blair.....	139,514	137	8,417	25,939	6,836	13,161	18,904	47,007	4,861	8,423	33,152
Bradford.....	51,722	61	4,256	13,820	3,419	6,408	9,913	29,177	1,092	4,005	17,937
Bucks.....	144,620	437	35,584	153,950	27,415	56,748	110,161	262,728	15,800	17,136	73,625
Butler.....	97,320	137	10,146	42,787	8,530	16,165	33,344	88,708	3,662	9,530	45,446
Cambria.....	209,541	180	20,867	77,628	17,496	29,941	59,810	113,224	6,645	22,249	95,774
Carbon.....	57,588	108	7,348	20,418	6,402	11,306	16,162	35,696	1,116	7,360	34,515
Centre.....	65,922	87	3,723	12,564	3,034	5,915	9,093	32,078	1,009	4,029	17,616
Chester.....	159,141	289	19,660	81,743	15,739	31,881	58,077	142,928	14,266	17,230	83,933
Clearfield.....	85,957	146	5,487	17,714	4,676	8,729	14,006	28,384	1,072	5,060	20,358
Clinton.....	36,532	63	5,740	20,528	4,728	9,467	15,599	36,814	1,001	5,430	26,456
Columbia.....	53,460	115	10,307	34,661	8,481	16,879	27,254	48,067	1,991	10,089	46,843
Crawford.....	78,948	136	9,452	37,073	7,160	13,843	25,898	66,867	3,107	10,378	50,013
Cumberland.....	94,457	135	7,725	24,170	6,278	11,823	16,759	47,070	1,001	7,695	30,278
Dauphin.....	197,784	273	23,956	82,753	19,902	36,844	62,019	140,962	1,711	23,189	114,301
Delaware.....	414,234	393	52,883	256,548	39,067	78,735	173,805	428,141	43,863	48,358	266,657
Elk.....	34,503	63	7,263	26,345	5,936	11,563	19,362	47,834	3,851	6,839	23,607
Erie.....	219,388	422	40,488	171,969	31,786	62,089	122,133	286,397	13,882	46,285	224,966
Fayette.....	189,899	172	7,258	22,933	6,086	11,390	17,460	41,294	1,617	9,568	48,912
Franklin.....	75,927	126	9,064	28,266	7,556	15,376	22,965	51,866	2,332	9,204	34,856
Huntingdon.....	40,872	72	3,139	9,726	2,666	4,966	7,867	16,511	716	3,899	13,162
Indiana.....	77,106	82	2,787	8,814	2,232	4,137	6,557	15,082	607	1,991	7,759
Jefferson.....	49,147	99	4,878	15,253	4,165	7,843	12,197	32,148	885	3,413	14,747
Lackawanna.....	257,396	481	31,478	94,351	26,936	50,739	73,219	164,764	12,896	24,999	83,766
Lancaster.....	234,717	612	42,545	150,619	34,663	68,491	110,273	288,553	16,059	39,139	177,365
Lawrence.....	105,120	142	13,997	60,214	11,599	21,350	46,248	105,761	3,629	16,557	77,733
Lebanon.....	81,683	182	12,248	39,600	10,568	19,827	30,630	68,252	3,099	13,391	49,441
Lehigh.....	198,207	479	33,458	116,251	27,393	52,984	84,041	209,871	7,890	35,720	142,372
Luzerne.....	392,241	632	36,902	97,448	32,866	59,382	79,839	156,328	5,273	35,676	126,116
Lycoming.....	101,249	236	17,953	61,071	15,051	29,688	45,949	106,455	3,502	15,335	56,645
McKean.....	56,607	126	7,190	26,195	5,711	11,646	18,636	48,490	3,564	6,271	33,629
Mercer.....	111,954	145	19,391	88,613	15,257	28,022	64,742	187,613	7,006	20,986	133,527
Mifflin.....	43,691	64	6,310	23,100	5,340	10,242	18,719	33,832	1,818	7,243	32,055
Morroe.....	33,773	106	4,119	13,376	3,487	6,366	10,509	21,191	1,105	3,742	17,334
Montgomery.....	353,068	831	60,003	247,459	47,575	94,360	176,123	435,514	39,616	57,121	244,141
Northampton.....	185,243	410	41,756	168,784	38,874	71,262	127,698	312,557	33,053	43,764	177,846
Northumberland.....	117,115	172	12,984	38,442	11,101	20,578	29,658	72,150	4,667	14,325	58,016
Philadelphia.....	2,071,605	5,214	309,792	1,251,162	235,175	457,213	833,225	2,215,113	112,489	328,325	1,736,141
Schuylkill.....	200,577	276	18,662	48,957	16,559	30,498	39,810	101,111	12,048	16,631	64,773
Tioga.....	35,474	45	3,197	11,075	2,859	5,649	9,278	19,059	1,745	3,456	16,225
Venango.....	65,328	107	7,252	27,555	5,660	10,535	20,333	55,017	3,614	8,576	34,414
Warren.....	42,698	96	4,898	16,444	3,872	7,814	14,214	39,063	1,576	5,070	24,414
Washington.....	209,628	165	21,687	93,080	18,516	35,762	74,972	156,954	9,107	21,727	77,879
Westmoreland.....	313,179	342	39,818	171,704	31,924	60,213	128,790	275,530	21,366	49,313	140,077
York.....	202,737	624	45,275	161,621	36,004	73,779	113,768	282,942	18,262	42,117	159,907

See footnotes at end of table.



## GENERAL SUMMARY

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Table 5.—GENERAL STATISTICS FOR OPERATING MANUFACTURING ESTABLISHMENTS BY SELECTED COUNTIES: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

State and county	Popula- tion, 1950	Estab- lish- ments, number	1954							1947 <sup>1</sup>	
			All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man- hours (1,000)	Wages (\$1,000)				
Rhode Island:											
Bristol.....	29,079	59	5,167	17,401	4,367	8,660	13,461	29,139	1,015	5,832	27,181
Kent.....	77,763	201	8,142	26,963	7,041	14,110	21,763	39,975	1,669	7,722	36,665
Newport.....	61,539	50	1,011	3,314	819	1,551	2,425	8,330	184	690	2,445
Providence.....	574,973	2,248	105,735	364,228	88,113	176,561	266,221	599,873	24,013	128,414	574,592
Washington.....	42,542	77	3,913	13,457	3,458	6,882	10,594	19,961	788	4,724	18,022
South Carolina:											
Abbeville.....	22,456	20	2,781	7,760	2,637	4,202	6,878	9,515	537	2,679	12,497
Aiken.....	53,137	49	19,146	87,504	8,927	17,758	30,083	106,141	1,594	6,155	19,149
Anderson.....	90,664	110	16,816	46,129	15,744	32,131	40,910	74,458	4,914	13,822	64,476
Charleston.....	164,856	151	9,233	26,930	7,508	14,797	19,441	54,333	5,835	9,972	39,617
Cherokee.....	34,992	42	4,371	10,749	4,183	8,115	9,728	15,513	802	3,910	17,568
Chester.....	32,597	45	4,685	13,115	4,377	8,983	11,830	23,038	1,416	4,798	15,701
Darlington.....	50,016	51	4,966	15,839	4,347	8,636	12,383	28,387	2,029	4,474	18,367
Florence.....	79,710	84	2,589	5,770	2,171	4,212	4,115	9,064	1,181	1,864	5,950
Georgetown.....	31,762	68	3,023	(D)	2,662	(D)	(D)	(D)	(D)	2,992	(D)
Greenville.....	168,152	248	27,349	78,079	24,307	48,950	62,929	124,076	5,557	26,274	128,045
Greenwood.....	41,628	74	10,875	30,551	10,237	20,492	27,537	53,360	2,624	11,000	48,723
Kershaw.....	32,287	52	2,804	10,582	2,302	4,668	7,392	40,592	1,196	1,147	3,969
Lancaster.....	37,071	35	7,677	(D)	7,063	(D)	(D)	(D)	(D)	6,317	26,128
Laurens.....	46,974	48	6,861	18,543	6,477	12,971	16,358	28,271	713	6,594	30,590
Marlboro.....	31,766	27	2,562	6,675	2,317	4,560	5,225	10,220	908	1,652	6,395
Newberry.....	31,771	73	4,013	9,882	3,700	7,079	8,952	16,539	368	4,272	18,349
Oconee.....	39,050	61	5,774	13,973	5,489	10,726	12,717	20,719	1,433	3,519	14,920
Orangeburg.....	68,726	81	3,192	7,903	2,723	5,439	5,719	11,698	446	2,814	8,975
Pickens.....	40,058	55	5,086	13,633	4,739	10,098	12,181	21,363	5,437	4,979	17,629
Richland.....	142,565	147	7,691	20,847	6,284	12,541	15,166	35,603	2,100	6,935	27,190
Spartanburg.....	150,349	149	25,153	68,814	23,181	46,377	59,694	104,607	4,854	24,340	113,225
Sumter.....	37,634	64	2,745	6,355	2,346	4,804	4,672	11,990	546	3,325	9,451
Union.....	31,334	45	5,359	14,264	5,071	10,128	12,896	20,526	745	5,316	28,660
York.....	71,596	69	12,085	36,616	10,803	21,498	30,392	67,580	2,820	10,452	41,665
South Dakota:											
Beadle.....	21,082	16	541	(D)	423	(D)	(D)	(D)	(D)	660	(D)
Brown.....	32,617	34	707	2,499	469	1,020	1,508	4,393	190	662	2,958
Codington.....	18,944	22	768	2,661	561	1,160	1,796	4,291	251	619	3,749
Minnehaha.....	70,910	81	5,402	21,656	3,848	8,422	14,400	44,511	1,436	4,804	27,462
Pennington.....	34,053	48	913	3,131	653	1,365	2,032	5,101	406	914	4,490
Tennessee:											
Anderson.....	59,407	23	5,997	27,523	4,399	8,801	18,447	59,705	246	1,079	3,356
Blount.....	54,691	44	7,314	(D)	6,128	(D)	(D)	(D)	(D)	10,209	(D)
Bradley.....	32,338	69	4,143	10,931	3,652	7,325	8,111	21,105	1,367	3,622	14,788
Carter.....	42,432	38	4,060	14,123	3,204	5,979	9,311	24,467	5,499	6,020	(D)
Davidson.....	321,758	462	30,499	104,061	23,295	47,021	69,742	203,655	11,025	29,841	131,871
Gibson.....	48,132	44	6,655	22,432	6,115	11,109	17,474	30,163	980	2,503	7,273
Hamblen.....	23,976	50	4,359	13,502	3,532	7,618	9,767	31,735	1,627	1,989	6,115
Hamilton.....	208,255	365	37,066	128,447	30,552	59,292	94,791	250,889	32,158	33,184	128,851
Knox.....	223,007	279	20,592	62,289	16,945	32,860	44,476	104,594	4,667	19,905	74,962
Loudon.....	23,182	28	2,559	5,481	2,357	4,521	4,645	7,879	342	1,576	3,429
McMinn.....	32,024	76	3,310	8,448	2,934	5,583	6,645	14,249	22,311	2,265	7,293
Madison.....	60,128	61	3,405	8,935	2,864	5,594	6,899	13,804	492	3,128	15,166
Maury.....	40,368	46	3,647	12,888	3,072	6,080	9,874	29,897	2,575	2,512	14,278
Roane.....	31,665	35	8,740	39,200	6,094	12,387	23,608	85,087	1,465	2,998	7,620
Shelby.....	482,393	632	41,804	152,582	32,310	65,441	103,324	336,167	31,773	36,042	202,432
Sullivan.....	95,063	82	18,309	79,171	13,909	28,751	54,666	145,474	14,639	17,981	96,089
Washington.....	59,971	72	3,399	9,040	2,970	5,845	7,066	15,595	969	3,193	12,025
Texas:											
Angelina.....	36,032	65	4,295	15,512	3,607	7,759	11,878	32,627	3,289	4,522	23,565
Bexar.....	500,460	551	17,894	54,372	13,186	27,186	33,715	111,139	5,098	15,514	68,931
Bowie.....	61,966	59	4,279	14,094	3,540	7,055	10,634	21,793	2,144	2,536	8,719
Brazoria.....	46,549	26	6,654	35,129	4,686	9,345	23,043	147,257	29,221	4,023	(D)
Cameron.....	125,170	112	2,977	7,152	2,298	4,669	4,633	14,644	954	2,461	9,967
Dallas.....	614,799	1,369	72,770	290,812	52,757	107,581	181,510	508,271	20,021	38,828	138,319
El Paso.....	194,968	180	9,232	28,534	7,581	15,176	21,032	51,252	16,883	6,176	35,175
Galveston.....	113,066	87	10,910	54,437	8,104	15,717	37,999	156,569	28,332	8,716	17,261
Grayson.....	70,467	78	4,187	13,223	3,295	6,981	9,152	31,826	1,362	3,576	15,431
Gregg.....	61,258	32	2,889	11,177	2,010	4,250	6,679	12,253	4,677	2,365	6,806
Harris.....	806,701	1,401	77,756	362,976	57,532	118,601	243,154	868,747	87,235	58,254	324,713
Harrison.....	47,745	60	3,071	9,634	2,454	5,054	6,626	17,587	10,389	2,584	7,977
Hutchinson.....	31,580	22	3,062	14,988	2,162	4,287	10,310	54,057	3,629	3,227	69,171
Jefferson.....	195,083	190	25,445	125,098	20,260	40,117	94,567	222,802	66,999	23,181	177,508

See footnotes at end of table.

## GENERAL SUMMARY

Table 5.—GENERAL STATISTICS FOR OPERATING MANUFACTURING ESTABLISHMENTS BY SELECTED COUNTIES: 1939 AND 1947—Continued

(For explanation of column headings, see Introduction)

State and county	Popula- tion, 1950	Estab- lish- ments, number	1954						1947		
			Production		Production workers		Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)	
			Number	Payroll (\$1,000)	Number	Man- hours					
Texas—Continued											
Lubbock.....	101,048	126	2,818	10,134	1,900	4,294	5,827	22,902	2,042	1,470	9,558
Malheur.....	130,194	147	7,715	26,521	5,898	12,240	18,273	62,764	7,739	6,451	32,621
Muskegon.....	165,471	150	6,721	28,241	4,589	11,298	17,990	71,593	6,424	4,577	41,599
Orange.....	40,567	39	5,380	25,541	3,813	7,539	16,128	76,285	12,761	3,835	16,996
Potter.....	73,366	118	3,115	12,309	2,050	4,332	7,463	18,488	2,426	14,985	
Smith.....	74,701	101	3,726	12,520	3,064	6,062	9,391	23,664	3,897	2,459	11,676
Tarrant.....	361,253	601	48,367	211,122	37,308	73,993	148,799	368,152	16,527	32,039	146,501
Taylor.....	63,370	73	2,532	7,443	1,818	3,718	4,482	20,753	711	1,294	5,063
Travis.....	160,980	143	3,388	11,003	2,280	4,619	6,318	17,816	961	2,554	11,793
Wichita.....	98,493	101	3,015	11,012	2,280	4,670	7,343	26,350	1,058	2,972	21,648
Utah:											
Cache.....	33,536	36	788	2,305	667	1,299	1,840	5,460	350	881	6,902
Davis.....	30,867	32	1,071	4,153	787	1,639	2,846	9,703	1,270	766	4,440
Salt Lake.....	274,895	446	15,110	60,156	11,432	22,735	40,656	161,496	8,193	10,836	57,779
Utah.....	81,912	84	6,734	30,397	5,316	10,354	22,505	56,578	10,223	5,894	31,105
Weber.....	83,319	85	2,937	11,029	2,116	4,274	7,256	21,743	1,896	3,303	14,470
Vermont:											
Berlington.....	24,115	79	3,458	11,342	2,939	5,797	8,589	19,570	871	3,365	11,719
Chittenden.....	62,570	114	4,978	17,520	3,764	7,396	11,893	30,805	(D)	5,766	23,708
Rutland.....	45,905	138	4,538	13,113	3,855	7,406	10,147	22,669	793	3,364	13,773
Washington.....	42,870	174	3,232	10,876	2,711	5,247	8,583	16,338	553	3,261	14,801
Windham.....	28,749	129	3,321	10,222	2,917	5,915	8,245	20,558	741	3,278	16,887
Windsor.....	40,885	104	8,012	33,987	6,658	13,160	25,701	62,724	3,017	7,073	26,662
Virginia (counties and independent cities):											
Bristol city.....	15,954	42	3,039	9,269	2,417	4,697	6,446	15,663	492	3,557	11,042
Campbell county.....	28,877	63	3,347	10,808	2,846	6,199	7,954	17,498	948	3,301	15,999
Chesterfield county.....	40,400	42	4,738	(D)	3,522	(D)	(D)	(D)	(D)	(D)	(D)
Covington city.....	5,860	13	2,869	11,109	2,318	4,582	8,374	26,622	(D)	(D)	(D)
Danville city.....	35,066	57	13,240	38,993	11,721	22,150	30,490	54,062	4,170	(NA)	(NA)
Giles county.....	18,956	20	2,533	9,263	1,979	3,780	6,705	33,804	1,147	4,522	(D)
Halifax county.....	41,442	39	2,652	6,213	2,394	4,649	5,088	10,710	414	2,673	12,789
Henry county.....	31,219	81	8,315	27,229	7,252	14,357	21,146	138,070	1,778	7,167	47,187
Hopewell city.....	10,219	14	4,417	18,682	3,346	7,026	13,297	52,932	(D)	3,962	27,670
Isle of Wight county.....	14,906	29	2,569	8,962	2,157	4,458	6,482	21,376	2,196	1,702	13,663
Lynchburg city.....	47,727	87	10,299	27,734	8,774	16,653	21,446	41,010	3,040	8,794	29,703
Martinsville city.....	17,251	38	5,700	14,172	4,974	10,216	11,970	24,254	647	2,548	10,560
Mecklenburg county.....	33,497	58	2,795	6,509	2,447	4,415	4,969	10,916	782	1,407	4,687
Newport News city.....	42,358	44	16,328	74,488	15,052	30,028	67,665	101,730	2,252	12,081	47,037
Norfolk city.....	213,513	210	10,683	39,328	8,290	16,811	26,408	81,006	3,102	10,403	54,539
Petersburg city.....	35,054	58	6,013	16,754	5,451	10,684	14,061	50,471	1,779	5,340	19,182
Radford city.....	9,026	10	6,549	26,355	5,495	10,751	20,990	31,417	10,090	1,247	(D)
Richmond city.....	230,310	51	30,375	102,915	23,998	46,383	71,193	285,599	15,719	28,126	204,325
Roanoke county.....	41,486	45	3,008	9,998	2,577	5,150	7,743	15,585	704	5,455	27,515
Rouoke city.....	91,921	104	9,724	32,595	7,659	15,774	22,928	47,338	4,973	5,832	22,077
Rockbridge county.....	23,359	28	2,621	(D)	2,333	(D)	(D)	(D)	(D)	1,987	13,216
Swain county.....	30,187	32	3,551	11,592	3,083	6,051	9,242	30,187	763	3,196	11,054
Spotsylvania county.....	11,920	34	2,875	(D)	2,394	(D)	(D)	(D)	(D)	2,810	(D)
Suffolk city.....	12,339	10	2,527	6,162	2,321	4,611	5,219	17,529	563	(D)	(D)
Warren county.....	14,801	18	2,686	10,270	2,223	4,564	8,022	29,835	1,585	3,710	(D)
Waynesboro city.....	12,357	23	4,682	19,161	3,620	7,050	12,457	34,502	4,647	(D)	(D)
Washington:											
Chelan.....	39,301	64	2,542	11,054	2,079	4,189	8,731	29,104	979	1,548	7,382
Clallam.....	26,396	120	3,204	15,137	2,871	5,337	13,032	37,592	4,372	1,960	11,200
Clatsop.....	85,307	134	8,431	34,422	7,004	13,650	27,216	83,032	10,190	6,618	22,746
Cowlitz.....	53,369	161	8,934	38,242	7,969	14,507	32,510	99,540	13,460	8,140	49,781
Grays Harbor.....	53,644	203	7,590	30,739	6,870	12,011	26,375	51,868	3,865	7,465	47,462
Knapall.....	732,992	1,447	78,447	354,664	54,931	105,211	220,541	520,928	21,823	54,770	245,422
Lewis.....	43,795	223	2,903	11,149	2,550	4,427	9,195	21,015	1,071	2,440	12,365
Pacific.....	275,876	432	17,052	72,643	14,090	26,499	55,674	145,873	7,504	16,896	104,426
Skagit.....	43,273	158	3,659	15,099	3,121	5,513	12,194	27,647	2,266	3,002	18,951
Thurston.....	111,580	294	9,279	37,504	8,101	14,614	31,090	78,884	33,947	8,854	41,733
Spokane.....	221,561	330	13,674	59,851	10,757	21,326	43,888	135,949	5,296	10,852	11,900
Thurston.....	130,000	130	3,318	14,551	2,798	5,220	11,537	26,744	2,708	2,493	14,002
Whatcom.....	66,733	164	4,679	19,122	3,962	7,284	15,281	40,199	26,203	3,566	10,019
Yakima.....	135,723	165	4,844	18,754	3,889	7,898	13,864	39,781	2,194	4,466	14,466

See footnotes at end of table.

## GENERAL SUMMARY

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Table 5.—GENERAL STATISTICS FOR OPERATING MANUFACTURING ESTABLISHMENTS BY SELECTED COUNTIES: 1947 AND 1947—Continued  
(For explanation of column captions, see Introduction.)

State and county	Popula- tion, 1950	Estab- lish- ments, number	1954						1954	
			All employees		Production workers		Value added by manu- facture	Capital expendi- tures, 1954	All employees, number	Value added by manu- facture
			Number	Payroll (\$1,000)	Number	Man- hours (1,000)				
West Virginia:										
Berkeley.....	20,000	44	3,454	9,697	2,923	5,630	7,420	19,381	1,168	4,188
Brooke.....	4,000	40	4,167	16,818	3,576	6,735	13,386	32,063	4,674	24,217
Cabell.....	108,035	140	13,793	52,525	10,886	20,798	36,975	105,863	5,402	12,106
Hancock.....	34,388	32	16,008	(D)	14,540	(D)	(D)	(D)	17,580	92,471
Harrison.....	85,296	84	6,597	26,773	5,622	10,608	22,561	45,423	1,543	7,264
Kanawha.....	239,629	182	21,222	107,455	15,818	31,707	74,963	260,482	26,928	23,073
Marion.....	71,521	52	4,304	17,272	3,656	7,313	13,741	35,620	1,247	6,686
Marshall.....	30,000	34	5,828	22,167	5,055	9,227	17,940	11,102	5,683	29,164
Monongalia.....	60,797	60	3,468	11,890	2,612	5,102	8,935	24,223	1,974	2,316
Ohio.....	71,672	110	7,750	30,000	6,270	11,717	22,118	50,091	2,550	9,031
Putnam.....	21,021	15	2,518	11,191	1,810	3,746	7,437	35,120	2,988	2,493
Wetzel.....	66,540	81	7,919	30,235	6,416	12,767	22,251	62,924	3,439	9,344
Wisconsin:										
Brown.....	98,814	241	11,071	47,193	8,921	19,220	35,474	92,972	5,981	9,491
Chippewa.....	42,839	81	3,076	11,394	2,260	4,548	7,579	24,270	1,588	1,940
Dane.....	169,357	261	13,355	55,714	10,021	20,046	38,332	95,893	4,368	10,671
Dodge.....	57,611	151	5,271	18,197	4,303	8,781	13,635	38,301	2,003	5,729
Eau Claire.....	54,187	77	6,337	30,162	5,055	10,821	23,574	53,857	2,636	8,672
Fond du Lac.....	67,829	142	7,784	30,127	6,083	11,947	20,066	60,457	1,748	7,153
Jefferson.....	43,069	111	6,506	25,285	5,044	10,430	17,073	42,832	1,869	5,833
Kenosha.....	75,238	116	15,113	65,925	11,618	22,200	48,386	110,401	4,443	17,069
La Crosse.....	67,587	113	9,078	38,635	6,946	14,249	27,309	66,888	3,429	9,700
Manitowoc.....	10,000	178	11,225	42,813	9,236	19,460	32,333	85,594	2,542	9,774
Marathon.....	30,337	179	8,902	33,008	7,308	14,764	24,522	62,097	6,336	8,593
Marinette.....	55,000	102	3,993	15,999	3,112	6,279	11,345	35,386	1,574	4,004
Milwaukee.....	571,000	1,979	175,802	809,880	129,608	255,419	538,856	1,439,620	68,648	178,412
Outagamie.....	81,722	172	10,382	40,750	8,527	18,013	30,674	76,260	3,296	10,211
Ozaukee.....	23,361	85	4,114	15,477	3,234	6,519	10,500	25,716	1,692	3,592
Racine.....	109,585	303	22,024	99,999	15,934	31,424	64,234	204,641	8,666	22,512
Rock.....	92,778	124	17,279	76,435	14,064	28,183	57,456	169,189	10,445	16,200
Sauk.....	38,120	77	4,256	15,986	3,296	6,921	11,693	20,435	478	1,025
Sheboygan.....	80,631	238	12,071	48,531	9,594	20,382	34,293	80,807	2,949	13,485
Walworth.....	41,584	107	3,222	12,477	2,699	5,379	9,375	23,583	1,461	2,718
Washington.....	33,902	83	5,218	20,140	4,150	8,177	13,548	38,749	1,535	4,219
Waukesha.....	85,901	243	8,014	33,502	6,104	12,199	23,141	54,333	2,756	7,280
Winnebago.....	91,103	240	16,378	67,230	13,485	28,310	50,973	129,759	7,526	15,432
Wauwatosa.....	50,500	112	7,827	29,755	6,604	13,462	23,526	59,486	5,952	7,092
Wyoming:										
Albany.....	19,055	22	553	2,075	457	975	1,680	3,621	136	603
Carbon.....	15,742	19	771	(D)	640	(D)	(D)	(D)	(D)	693
Laramie.....	47,662	37	3,551	439	439	77	1,992	6,489	559	4,953
Natrona.....	31,437	34	1,728	8,927	1,284	2,497	6,264	14,566	4,534	1,287
Park.....	15,182	14	334	1,640	200	428	799	1,462	256	(D)

D Withheld to avoid disclosing figures for individual companies. NA Not available.

The 1947 data are not strictly comparable with the figures shown for 1954 due to differences in coverage of loggers and fluid milk distributors. See discussion in Introduction.

San Francisco city is coextensive with San Francisco county.

The independent cities of Baltimore, Md., and St. Louis, Mo., are treated as counties.

A borough of New York City.

Table 6A.—MANUFACTURING EMPLOYMENT FOR REGIONS AND DIVISIONS: 1954

(For explanation of column captions, see INTRODUCTION.)

Region and division <sup>1</sup>	Total manufacturing employment		Employment at operating manufacturing establishments		Employment in administrative and auxiliary units	
	Number	Payroll (\$1,000)	Number	Payroll (\$1,000)	Number	Payroll (\$1,000)
United States, total.....	16,125,550	65,976,667	15,651,294	62,993,321	474,256	1,983,346
Northeast.....	5,741,317	23,333,731	5,536,548	22,012,291	204,769	1,321,440
New England.....	1,450,025	5,460,694	1,431,300	5,356,133	18,725	104,561
Middle Atlantic.....	4,291,292	17,873,037	4,105,248	16,656,158	186,044	1,216,879
North Central.....	5,568,294	24,788,978	5,399,186	23,735,074	169,108	1,053,904
East North Central.....	4,604,516	20,925,690	4,459,829	20,003,625	144,687	922,065
West North Central.....	963,778	3,863,288	939,357	3,731,449	24,421	131,839
South.....	3,242,909	10,863,209	3,173,495	10,448,100	69,414	415,109
South Atlantic.....	1,778,959	5,702,560	1,745,372	5,480,901	33,587	221,659
East South Central.....	729,947	2,366,908	714,758	2,288,840	15,189	78,068
West South Central.....	734,003	2,793,741	713,365	2,678,359	20,638	115,382
Mountain.....	1,572,939	6,990,437	1,541,974	6,797,544	30,965	192,893
Pacific.....	190,674	766,726	187,493	749,586	3,181	17,140
Far West.....	1,382,265	6,223,711	1,354,481	6,047,958	27,784	175,753

<sup>1</sup>See Table 4A for states included within each division.



## GENERAL SUMMARY

Table 65.—GENERAL STATISTICS FOR OPERATING MANUFACTURING ESTABLISHMENTS FOR INDUSTRY GROUPS BY REGIONS AND DIVISION.: 1954 AND 1947  
(For explanation of column captions see introduction.)

No.	Major industry group, region and division <sup>1</sup>	Establishments, number	1954						1947	
			All employees		Production workers			Value added by manufacture	Capital expenditures, new	All employees
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	(\$1,000)	(\$1,000)	number
	All industries:									
	United States, total.....	286,817	15,651,294	62,993,321	12,373,030	24,341,239	44,595,457	116,912,526	7,818,155	214,293,963
	Northeast.....	107,005	5,536,548	22,012,291	4,366,559	8,493,011	15,383,625	39,530,471	1,975,353	5,429,032
	New England.....	24,625	1,431,300	5,356,133	1,154,083	2,275,672	3,858,699	9,128,281	424,264	1,475,162
	Middle Atlantic.....	82,380	4,105,248	16,656,158	3,212,476	6,217,339	11,524,926	30,402,190	1,551,089	3,953,870
	North Central.....	77,966	5,399,186	23,735,074	4,202,876	8,390,603	16,838,658	43,614,345	3,043,004	5,108,959
	East North Central.....	58,946	4,459,829	20,003,625	3,489,654	6,964,115	14,265,381	36,500,510	2,653,891	4,322,812
	West North Central.....	19,020	939,357	3,731,449	713,222	1,426,488	2,573,277	7,113,835	389,113	786,147
	South.....	59,853	3,173,495	10,448,100	2,624,196	5,143,158	7,654,080	21,080,627	1,906,315	2,710,095
	South Atlantic.....	30,530	1,745,372	5,480,901	1,466,333	2,847,757	4,072,169	10,657,729	789,254	1,523,890
	East South Central.....	12,854	714,758	2,288,840	601,493	1,166,807	1,713,827	4,701,863	395,995	635,445
	West South Central.....	16,469	713,365	2,678,359	556,370	1,128,594	1,868,084	5,721,035	721,066	2,884,391
	West.....	41,993	1,541,974	6,797,544	1,179,121	2,313,922	4,718,355	12,689,115	891,587	(3)
	Mountain.....	6,685	187,493	749,586	144,101	286,848	532,152	1,505,145	126,844	(3)
	Pacific.....	35,308	1,354,481	6,047,958	1,035,020	2,027,074	4,186,203	11,183,970	764,743	(3)
20	Food and kindred products:									
	United States, total.....	42,374	1,647,204	6,201,500	1,138,239	2,316,661	3,759,071	13,400,218	789,050	(4)
	Northeast.....	11,052	409,852	1,600,951	276,764	557,023	945,861	3,396,690	159,323	(4)
	New England.....	3,032	84,052	298,275	59,177	109,553	166,999	554,867	27,914	(4)
	Middle Atlantic.....	8,020	325,800	1,302,675	221,586	447,469	778,826	2,841,823	131,408	(4)
	North Central.....	14,274	608,619	2,440,629	429,495	889,630	1,548,526	5,115,794	295,517	(4)
	East North Central.....	9,422	391,908	1,586,879	274,814	564,946	981,007	3,447,433	194,767	(4)
	West North Central.....	4,852	216,710	853,750	154,680	324,683	567,519	1,668,361	100,749	(4)
	South.....	10,896	394,128	1,233,893	265,386	543,875	689,262	2,800,372	181,879	(4)
	South Atlantic.....	4,813	186,465	568,862	126,189	256,340	312,634	1,236,284	92,193	(4)
	East South Central.....	2,302	80,621	261,987	54,014	111,536	150,858	642,297	34,972	(4)
	West South Central.....	3,781	127,041	403,044	85,182	175,998	225,770	921,791	54,713	(4)
	West.....	6,152	234,603	926,025	166,593	326,132	575,420	2,087,361	152,330	(4)
	Mountain.....	1,738	44,420	157,241	31,440	64,015	99,130	325,188	24,835	(4)
	Pacific.....	4,414	190,183	768,784	139,152	262,116	476,290	1,762,172	127,495	(4)
21	Tobacco manufactures:									
	United States, total.....	627	94,863	259,689	87,073	162,988	219,736	988,001	28,018	111,782
	Northeast.....	292	22,477	55,121	20,769	38,059	47,787	120,921	2,330	28,306
	New England.....	45	876	2,035	764	1,288	1,483	3,991	229	1,379
	Middle Atlantic.....	247	21,600	53,085	20,004	36,770	46,304	116,929	2,100	26,927
	North Central.....	95	4,738	13,198	4,143	7,560	10,445	36,393	399	7,849
	East North Central.....	84	4,034	(D)	3,551	(D)	(D)	(D)	(D)	(D)
	West North Central.....	11	704	(D)	592	(D)	(D)	(D)	(D)	(D)
	South.....	226	67,289	190,369	61,864	116,887	161,208	829,234	25,238	75,627
	South Atlantic.....	163	53,711	150,802	49,207	92,038	126,917	644,244	17,617	495,662
	East South Central.....	57	12,391	37,429	11,525	22,964	32,329	180,858	7,595	
	West South Central.....	6	1,187	2,137	1,130	1,885	1,962	4,131	26	
	West.....	14	357	1,001	296	481	694	1,453	49	
	Mountain.....	...	...	...	...	...	...	...	...	
	Pacific.....	14	357	1,001	296	481	694	1,453	49	
22	Textile mill products:									
	United States, total.....	8,070	1,037,440	3,032,490	947,502	1,821,075	2,526,564	4,748,586	225,914	1,232,293
	Northeast.....	5,093	381,299	1,288,035	336,909	655,587	1,021,459	2,032,232	73,229	574,217
	New England.....	1,383	168,194	558,124	149,959	294,738	453,406	844,484	27,316	281,939
	Middle Atlantic.....	3,710	213,105	729,910	186,949	360,849	568,052	1,187,747	45,913	292,278
	North Central.....	445	42,191	146,241	35,586	69,014	105,224	250,460	8,728	54,658
	East North Central.....	370	35,535	125,977	30,191	58,854	91,251	218,079	7,435	46,284
	West North Central.....	75	6,656	20,264	5,394	10,159	13,973	32,381	1,292	8,374
	South.....	2,296	604,848	1,564,789	567,500	1,081,560	1,376,152	2,407,461	141,139	593,820
	South Atlantic.....	1,873	501,674	1,311,353	470,564	900,017	1,154,635	2,009,533	120,074	484,285
	East South Central.....	321	88,715	216,983	83,520	154,580	190,260	340,936	17,396	97,002
	West South Central.....	102	14,458	36,453	13,415	26,962	31,257	56,991	3,669	12,533
	West.....	23	9,101	33,424	7,506	14,913	23,727	58,432	2,816	9,598
	Mountain.....	11	379	1,133	318	652	786	1,515	43	633
	Pacific.....	225	8,721	32,290	7,187	14,260	22,941	56,917	2,773	8,965
23	Apparel and related products:									
	United States, total.....	31,372	1,190,064	3,201,795	1,069,867	1,898,999	2,521,135	5,147,371	76,552	1,081,670
	Northeast.....	22,707	701,798	2,018,121	629,842	1,104,860	1,588,797	3,241,795	32,379	667,762
	New England.....	1,874	86,849	226,900	79,304	141,735	184,377	362,163	4,576	74,394
	Middle Atlantic.....	20,833	614,949	1,791,220	550,537	963,125	1,404,420	2,879,631	27,803	593,368
	North Central.....	3,309	162,805	450,472	141,368	252,370	333,540	707,320	16,826	181,088
	East North Central.....	2,406	110,567	316,448	95,201	168,962	231,606	495,060	13,198	126,956
	West North Central.....	903	52,237	134,024	46,166	83,406	101,933	212,260	3,627	54,132
	South.....	2,778	259,303	540,502	240,481	438,526	450,984	869,544	21,362	181,771
	South Atlantic.....	1,571	134,933	293,113	124,376	226,333	242,669	468,739	12,734	99,733
	East South Central.....	519	82,028	158,300	77,468	141,518	137,586	236,962	5,230	50,779
	West South Central.....	784	42,341	89,083	38,635	70,674	70,727	143,843	3,398	31,259
	West.....	2,578	66,156	192,700	58,176	103,243	147,611	328,711	5,984	51,049
	Mountain.....	192	4,546	10,220	3,980	7,159	7,732	16,539	392	3,244
	Pacific.....	2,386	61,610	182,480	54,195	96,083	140,079	312,171	5,592	47,805

See footnotes at end of table.

## GENERAL SUMMARY

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Table 6B.—GENERAL STATISTICS FOR OPERATING MANUFACTURING ESTABLISHMENTS FOR INDUSTRY GROUPS BY REGIONS AND DIVISIONS: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Code	Major industry group, region and division <sup>1</sup>	Establish- ments, number	1954						1947		
			All employees		Production workers			Value added by manufacture	Capital expendi- tures, new	All employees, number	Value added by manufacture
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
24	Lumber and wood products:										
	United States, total.....	41,484	645,936	1,933,523	581,920	1,106,955	1,604,859	3,188,409	217,361		
	Northeast.....	6,913	74,342	213,594	64,787	129,864	169,331	327,250	18,590		
	New England.....	3,541	36,759	96,981	32,552	65,570	80,147	145,890	9,526		
	Middle Atlantic.....	3,372	37,583	116,613	32,234	64,294	89,184	181,359	9,064		
	North Central.....	6,116	89,948	292,114	76,508	150,248	219,272	458,677	20,945		
	East North Central....	4,302	66,020	216,759	56,266	111,257	162,080	340,851	16,234		
	West North Central....	1,814	23,927	75,354	20,241	38,990	57,191	117,825	4,711		
	South.....	18,501	275,327	569,288	253,181	479,303	477,964	915,019	58,033		
	South Atlantic.....	10,308	135,102	268,860	124,225	228,252	224,843	431,308	26,940		
	East South Central....	4,883	76,290	155,767	70,234	131,496	130,182	259,825	13,567		
	West South Central....	3,310	63,934	144,660	58,721	119,555	122,939	223,885	17,524		
	West.....	9,954	206,317	858,526	187,444	347,538	738,291	1,487,462	119,792		
	Mountain.....	1,618	27,418	102,457	24,947	47,791	88,674	172,093	19,712		
	Pacific.....	8,336	178,899	756,068	162,497	299,746	649,616	1,315,369	100,080	(4)	(4)
25	Furniture and fixtures:										
	United States, total.....	10,273	340,694	1,197,376	286,649	571,294	892,891	1,966,410	61,945	316,273	1,346,277
	Northeast.....	3,532	89,657	326,327	74,983	148,852	244,692	539,263	14,038	80,723	366,045
	New England.....	743	19,978	69,232	16,839	33,757	51,478	108,252	2,940	17,992	74,095
	Middle Atlantic.....	2,789	69,678	257,094	58,143	115,095	193,214	431,010	11,098	62,731	291,950
	North Central.....	2,423	115,987	455,295	95,566	189,942	335,521	738,302	25,897	123,335	545,090
	East North Central....	1,926	102,142	404,039	84,169	167,733	299,298	655,879	23,785	108,935	488,717
	West North Central....	497	13,844	51,255	11,397	22,209	36,222	82,423	2,112	14,400	56,373
	South.....	2,515	105,990	300,102	91,663	185,501	225,308	494,604	17,250	85,503	309,239
	South Atlantic.....	1,330	68,105	191,424	59,160	119,374	144,811	320,699	10,173	55,726	206,559
	East South Central....	452	20,214	57,795	17,450	35,908	42,841	87,631	3,417	18,217	59,313
	West South Central....	733	17,670	50,883	15,053	30,218	37,655	86,273	3,660	11,560	43,367
	West.....	1,803	29,059	115,650	24,435	46,998	87,369	194,240	4,759	26,712	125,903
	Mountain.....	232	1,819	6,716	1,531	3,062	4,826	11,130	310	1,593	5,761
	Pacific.....	1,571	27,240	108,934	22,904	43,935	82,543	183,109	4,449	25,119	120,142
26	Pulp, paper and products:										
	United States, total.....	5,004	530,210	2,217,420	435,727	919,940	1,656,720	4,580,944	532,723	454,075	2,913,197
	Northeast.....	2,406	198,513	813,979	163,192	346,998	599,996	1,504,747	143,761	190,400	1,127,329
	New England.....	649	70,377	281,969	58,131	125,423	210,718	518,429	71,243	69,345	397,013
	Middle Atlantic.....	1,757	128,136	532,009	105,061	221,574	389,277	986,317	72,518	121,055	730,316
	North Central.....	1,474	168,974	731,184	136,414	288,374	533,613	1,432,218	108,068	148,804	942,615
	East North Central....	1,159	138,108	601,473	113,100	239,566	447,224	1,146,876	87,281	122,989	776,060
	West North Central....	255	30,866	129,711	23,314	48,808	86,389	285,342	20,786	25,815	166,555
	South.....	691	118,599	475,337	99,438	210,333	367,837	1,158,109	198,962	84,534	585,462
	South Atlantic.....	393	63,025	249,954	52,168	109,535	189,695	637,445	135,555	46,076	312,508
	East South Central....	133	25,821	103,053	22,037	46,670	81,527	234,465	40,121	16,087	116,864
	West South Central....	165	29,752	122,329	25,232	54,127	96,614	286,198	23,285	22,371	156,090
	West.....	493	44,122	196,919	36,682	74,234	155,272	485,869	81,931	30,337	257,791
	Mountain.....	28	1,548	6,495	1,284	2,659	4,910	17,565	2,928	782	4,758
	Pacific.....	465	42,573	190,424	35,398	71,575	150,362	468,304	79,003	29,555	253,033
27	Printing and publishing:										
	United States, total.....	32,531	804,386	3,625,133	499,666	961,465	2,115,344	6,264,558	236,897	715,120	4,248,773
	Northeast.....	10,989	314,491	1,463,040	191,003	365,381	813,954	2,627,404	78,917	295,132	1,836,940
	New England.....	2,151	59,986	248,709	39,674	75,219	153,198	396,781	17,115	54,169	281,179
	Middle Atlantic.....	8,838	254,505	1,214,331	151,329	290,162	660,755	2,230,623	61,801	240,963	1,555,761
	North Central.....	10,899	288,304	1,316,823	184,891	356,796	802,443	2,202,850	96,945	255,881	1,505,316
	East North Central....	7,329	218,091	1,028,416	141,218	274,406	636,091	1,712,835	73,998	195,263	1,169,861
	West North Central....	3,570	70,213	288,407	43,673	82,390	166,352	490,014	22,946	60,618	335,455
	South.....	6,262	121,645	480,352	76,462	152,487	286,265	820,467	36,953	99,185	518,678
	South Atlantic.....	2,870	61,941	249,179	38,170	74,912	143,862	416,094	17,703	49,335	262,272
	East South Central....	1,145	23,941	95,008	16,166	32,490	61,547	159,411	7,378	20,854	102,083
	West South Central....	2,247	35,762	136,163	22,126	45,084	80,855	244,960	11,872	28,996	154,323
	West.....	4,381	79,946	364,917	47,309	86,800	212,681	613,836	24,080	64,922	387,839
	Mountain.....	973	14,725	58,561	9,367	17,547	37,181	102,449	6,137	11,842	59,784
	Pacific.....	3,408	65,221	306,356	37,941	69,252	175,499	511,387	17,942	53,080	328,055
28	Chemicals and products:										
	United States, total.....	11,075	739,389	3,407,199	501,272	1,016,053	2,005,627	9,443,629	926,613	626,415	5,317,001
	Northeast.....	3,674	222,269	1,031,033	147,156	296,910	585,866	2,837,279	192,983	220,359	1,848,248
	New England.....	710	27,586	122,729	18,554	37,417	70,139	332,811	24,271	28,518	217,537
	Middle Atlantic.....	2,964	194,682	908,303	128,601	259,493	515,727	2,504,467	168,711	191,841	1,630,711
	North Central.....	3,232	206,719	973,439	139,272	280,826	567,736	2,693,493	231,566	174,834	1,672,359
	East North Central....	2,351	166,300	797,959	111,519	226,029	460,329	2,163,190	176,257	142,319	1,344,035
	West North Central....	881	40,419	175,480	27,753	54,796	107,406	530,303	55,308	32,515	328,324
	South.....	2,635	252,249	1,119,638	178,623	366,112	698,454	3,194,542	458,041	196,774	1,459,857
	South Atlantic.....	1,286	125,713	541,069	87,437	177,118	324,464	1,418,161	149,155	108,706	778,942
	East South Central....	515	65,328	288,814	47,235	96,956	183,758	730,644	72,194	45,975	291,949
	West South Central....	834	61,208	289,754	43,949	92,038	190,230	1,045,737	236,690	42,093	388,966
	West.....	1,534	58,150	283,088	36,221	72,203	153,570	718,313	44,022	34,448	336,537
	Mountain.....	218	13,988	67,500	8,131	16,573	34,270	158,860	11,967	3,864	29,059
	Pacific.....	1,316	44,162	215,588	28,089	55,630	119,299	559,453	32,055	30,584	307,478

See footnotes at end of table.

## GENERAL SUMMARY

Table 2B.—GENERAL STATISTICS FOR OPERATING MANUFACTURING ESTABLISHMENTS FOR INDUSTRY GROUPS BY REGIONS AND DIVISIONS: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Industry group, region, and division <sup>1</sup>	Establish- ments, number	1954						1947		
		All employees		Production workers			Value added by manufactures	Capital expendi- tures, new	All employees number	Value added by manufactures
		Number	Payroll (\$1,000)	Number	Man. hours ((1,000)	Wages (\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	
29 Petroleum and coal products:										
United States, total.....	1,381	215,843	1,101,814	163,811	322,947	778,408	2,582,613	753,184	207,618	1,390,944
Northeast.....	374	52,261	263,555	39,970	77,948	186,876	524,075	145,191	54,234	535,338
New England.....	51	3,206	16,315	2,479	5,478	11,611	31,196	4,798	2,468	27,906
Middle Atlantic.....	323	49,054	247,239	37,491	72,469	174,965	492,878	140,392	51,766	507,432
North Central.....	424	58,925	299,586	45,509	90,922	216,556	727,011	183,528	56,340	500,923
East North Central.....	321	49,520	253,830	38,406	76,515	184,144	621,713	157,692	47,841	425,121
West North Central.....	103	9,404	45,756	7,102	14,406	32,412	105,298	25,836	8,499	75,802
South.....	358	76,686	393,527	58,113	113,627	278,892	945,922	270,899	69,559	684,982
South Atlantic.....	105	7,292	33,818	5,841	11,371	24,796	76,630	23,211	5,907	48,041
East South Central.....	53	5,415	23,988	4,502	8,837	18,484	91,718	8,555	4,572	57,991
West South Central.....	195	63,979	335,720	47,770	93,418	235,612	777,573	239,131	59,080	578,950
West.....	225	27,970	145,144	20,217	40,450	96,382	385,604	153,565	27,485	269,701
Mountain.....	64	7,009	35,311	5,224	10,428	25,193	102,381	21,542	5,470	52,093
Pacific.....	161	20,961	109,833	14,992	30,021	71,188	283,223	132,022	22,015	217,608
30 Rubber products:										
United States, total.....	1,406	246,526	1,059,337	196,238	377,414	775,499	1,903,702	128,431	258,237	1,299,491
Northeast.....	504	81,573	334,441	65,081	128,855	242,936	611,049	37,694	86,046	435,043
New England.....	201	44,551	179,989	35,709	71,125	131,092	324,141	17,970	45,249	224,544
Middle Atlantic.....	303	37,021	154,451	29,371	57,730	111,844	286,907	19,723	40,797	210,499
North Central.....	490	116,884	521,087	91,907	169,929	375,159	845,714	58,884	130,166	614,645
East North Central.....	412	109,315	491,110	85,631	158,129	351,591	765,772	50,529	124,381	583,613
West North Central.....	78	7,569	29,977	6,276	11,799	23,567	79,941	8,355	5,785	31,032
South.....	181	26,014	103,997	21,896	43,367	82,852	262,813	13,542		
South Atlantic.....	93	10,835	37,724	8,792	17,334	27,533	74,843	3,487		
East South Central.....	47	11,586	50,130	9,987	19,416	41,625	131,437	6,790		
West South Central.....	41	3,592	16,142	3,116	6,615	13,693	56,532	3,264		
West.....	231	22,054	99,811	17,352	35,263	74,551	184,126	18,310	42,025	249,803
Mountain.....	13	5,310	(D)	3,836	(D)	(D)	(D)	(D)		
Pacific.....	218	16,744	(D)	13,516	(D)	(D)	(D)	(D)		
31 Leather and leather goods:										
United States, total.....	4,845	356,578	1,027,314	321,161	586,897	833,694	1,637,417	28,053	383,264	1,533,028
Northeast.....	3,342	213,410	622,094	192,515	351,624	503,556	928,888	14,103	219,590	920,956
New England.....	1,161	110,090	321,419	99,076	177,057	258,004	477,162	7,190	109,177	453,849
Middle Atlantic.....	2,181	103,319	300,674	93,439	174,566	245,551	451,725	6,912	110,413	467,107
North Central.....	786	97,935	282,566	87,704	158,343	229,113	489,514	8,028	120,745	448,744
East North Central.....	552	58,861	183,526	52,086	95,711	146,502	307,433	5,742	75,350	319,969
West North Central.....	234	39,073	99,040	35,617	62,632	82,610	182,081	2,286	45,395	128,775
South.....	392	36,461	89,993	33,530	62,150	76,939	161,947	3,458	35,090	129,967
South Atlantic.....	168	15,099	40,958	13,535	25,610	33,342	62,827	2,257	17,686	70,128
East South Central.....	94	14,113	33,919	13,229	24,749	30,303	71,787	714	14,311	50,496
West South Central.....	130	7,248	15,116	6,766	11,791	13,292	27,331	486	3,093	9,343
West.....	325	8,771	32,660	7,410	14,738	24,084	57,067	2,463	7,839	33,361
Mountain.....	47	1,983	8,719	1,602	3,723	6,390	18,507	613	1,319	4,811
Pacific.....	278	6,788	23,941	5,807	11,015	17,694	38,559	1,849	6,520	28,550
32 Stone, clay, and glass products:										
United States, total.....	11,162	491,814	1,938,085	412,031	827,012	1,496,029	3,821,659	300,647	461,037	2,298,521
Northeast.....	3,094	158,967	648,875	130,383	261,053	488,674	1,193,085	87,204	160,926	793,490
New England.....	674	23,734	95,321	18,361	37,173	66,957	160,043	8,692	21,569	108,573
Middle Atlantic.....	2,420	135,232	553,554	112,022	223,879	421,717	1,033,041	78,512	139,357	684,917
North Central.....	3,669	175,674	723,627	147,864	299,959	567,717	1,433,606	112,005	159,926	838,231
East North Central.....	2,736	143,385	593,418	121,272	243,369	466,980	1,147,760	91,632	131,877	689,435
West North Central.....	933	32,289	130,208	26,592	56,590	100,737	285,846	20,373	28,049	148,796
South.....	2,768	111,373	375,001	96,042	191,101	294,942	784,926	61,496	102,056	456,552
South Atlantic.....	1,477	61,378	205,023	53,274	104,005	162,564	385,248	28,511	60,530	259,044
East South Central.....	603	22,899	73,865	19,774	38,830	57,618	157,902	14,191	20,640	89,625
West South Central.....	688	27,096	96,113	22,992	48,265	74,759	241,775	18,793	20,886	107,883
West.....	1,631	45,799	190,581	37,740	74,898	144,695	410,040	39,941	38,129	210,248
Mountain.....	356	8,085	31,653	6,673	13,700	24,036	75,671	5,808	6,345	31,291
Pacific.....	1,275	37,714	159,018	31,067	61,197	120,658	334,368	34,132	31,784	178,357
33 Primary metal industries:										
United States, total.....	5,838	1,117,059	5,097,466	938,511	1,812,027	3,985,548	9,372,910	831,095	1,158,158	5,733,028
Northeast.....	1,951	403,595	1,811,639	334,170	634,947	1,389,251	3,084,079	223,689	440,590	2,094,762
New England.....	537	54,207	238,927	84,699	163,844	349,821	784,821	41,970	23,922	289,386
Middle Atlantic.....	1,414	349,387	1,572,712	289,470	546,482	1,209,429	2,664,909	199,766	378,561	1,805,376
North Central.....	2,438	479,242	2,242,998	405,103	783,082	1,761,369	4,055,084	406,026	503,783	2,529,964
East North Central.....	2,132	454,065	2,136,134	383,537	741,034	1,678,048	3,872,786	395,673	477,781	2,414,950
West North Central.....	306	25,177	106,864	21,566	42,047	83,320	182,297	10,353	26,002	115,014
South.....	654	152,681	671,573	130,848	258,632	541,673	1,417,760	142,608	145,989	706,347
South Atlantic.....	251	64,447	292,481	54,669	107,315	233,926	639,486	47,722	64,737	322,532
East South Central.....	174	55,546	235,100	47,869	93,188	190,031	470,016	63,251	62,474	227,793
West South Central.....	229	32,687	143,991	28,309	58,128	117,715	308,258	31,634	18,778	89,122
West.....	795	81,540	371,254	68,389	135,365	293,254	815,985	58,771	67,796	401,955
Mountain.....	101	27,045	117,915	22,843	44,771	94,992	264,983	18,822	23,094	134,273
Pacific.....	694	54,495	253,339	45,546	91,026	198,262	551,002	39,949	44,702	267,632

See footnotes at end of table.



## GENERAL SUMMARY

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Table 6B.—GENERAL STATISTICS FOR OPERATING MANUFACTURING ESTABLISHMENTS FOR INDUSTRY GROUPS BY REGIONS AND DIVISIONS: 1954 AND 1947—Continued

(For explanation of column captions see Introduction.)

Code	Major industry group, region and division <sup>1</sup>	1954								1947	
		Establishments, number	All employees		Production workers			Value added in manufacture (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added in manufacture (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
34	Fabricated metal products:										
	United States, total.....	22,516	1,019,406	4,397,337	821,172	1,652,366	3,174,186	7,596,275	432,491	973,174	4,920,304
	Northeast.....	8,389	347,655	1,453,951	282,327	566,197	1,055,043	2,497,157	115,078	355,314	1,714,319
	New England.....	2,149	92,743	369,182	75,635	152,534	268,314	624,379	23,480	109,005	506,235
	Middle Atlantic.....	6,240	254,911	1,084,768	206,692	413,663	786,728	1,872,778	91,598	246,309	1,208,084
	North Central.....	8,269	456,602	2,060,434	366,543	741,458	1,482,442	3,514,009	220,535	452,621	2,396,083
	East North Central....	7,016	407,205	1,852,995	327,917	663,734	1,340,183	3,145,844	201,143	407,820	2,164,248
	West North Central....	1,253	49,396	207,439	38,626	77,724	142,259	368,164	19,392	44,801	231,835
	South.....	2,632	125,245	476,425	101,142	203,798	345,326	879,688	51,488	100,388	457,279
	South Atlantic.....	1,142	53,194	200,312	43,236	85,907	146,527	376,930	20,281	45,175	207,130
	East South Central....	543	39,946	147,684	33,119	66,058	111,886	276,725	17,609	33,911	144,419
	West South Central....	947	32,105	128,427	24,786	51,832	86,912	226,032	13,596	21,302	105,730
	West.....	3,226	39,902	406,525	71,159	140,912	291,374	705,421	45,389	64,851	352,623
	Mountain.....	329	6,914	28,154	5,207	10,457	19,308	45,281	3,132	4,361	22,460
	Pacific.....	2,897	82,987	378,370	65,951	130,454	272,065	660,139	42,256	60,490	330,163
35	Machinery, except electrical:										
	United States, total.....	25,601	1,541,675	7,190,563	1,171,323	2,369,610	4,979,972	12,338,923	713,808	1,552,135	7,833,970
	Northeast.....	8,092	519,921	2,354,097	390,610	787,144	1,614,861	4,021,678	198,970	541,891	2,619,783
	New England.....	2,425	179,324	784,000	137,803	277,729	556,322	1,312,335	59,795	201,583	930,555
	Middle Atlantic.....	5,667	340,596	1,570,097	252,806	509,415	1,058,538	2,709,343	139,174	340,308	1,689,228
	North Central.....	11,055	620,689	3,947,936	628,756	1,272,446	2,770,084	6,729,683	381,884	855,981	4,450,826
	East North Central....	9,419	728,526	3,555,422	559,099	1,133,632	2,503,024	6,046,137	341,275	764,931	4,010,107
	West North Central....	1,636	92,163	392,514	69,657	138,814	267,059	683,546	40,608	91,050	440,719
	South.....	2,693	115,680	484,389	88,004	180,285	320,467	881,940	101,548	85,642	404,314
	South Atlantic.....	1,043	39,390	155,820	30,104	61,146	100,862	243,161	17,528	31,231	134,846
	East South Central....	442	29,911	124,825	22,972	43,979	84,524	224,179	61,564	23,692	94,514
	West South Central....	1,208	46,378	203,743	34,927	73,519	135,080	414,599	22,455	31,719	174,954
	West.....	3,761	85,384	404,139	63,951	129,734	274,559	705,621	31,404	67,621	359,047
	Mountain.....	322	7,857	32,621	5,900	11,847	21,535	54,989	2,968	6,075	29,548
	Pacific.....	3,439	77,527	371,518	58,051	117,886	253,023	650,631	28,436	61,546	329,499
36	Electrical machinery:										
	United States, total.....	5,758	959,126	3,950,994	722,443	1,422,339	2,645,588	7,403,134	340,677	796,357	3,860,235
	Northeast.....	2,547	453,564	1,857,063	336,608	663,839	1,219,615	3,552,131	141,072	384,146	1,810,670
	New England.....	603	120,847	457,698	91,587	185,454	306,355	885,454	33,131	96,048	451,237
	Middle Atlantic.....	1,944	332,716	1,399,364	245,020	478,384	913,259	2,666,677	107,940	288,098	1,359,433
	North Central.....	1,940	392,338	1,645,420	302,932	592,948	1,131,576	3,003,371	134,877	362,638	1,795,714
	East North Central....	1,668	351,336	1,481,974	271,902	531,508	1,021,827	2,719,985	124,115	328,189	1,640,355
	West North Central....	272	41,001	163,445	31,029	61,439	109,748	283,386	10,761	34,449	155,359
	South.....	443	57,382	212,789	42,970	84,194	137,337	415,575	44,084	29,908	136,498
	South Atlantic.....	229	33,094	128,825	22,875	44,654	76,231	240,027	32,606	20,866	94,726
	East South Central....	100	16,484	55,336	14,040	26,957	41,792	115,326	8,620	6,742	27,663
	West South Central....	114	7,803	28,628	6,054	12,582	19,313	60,221	2,856	2,300	14,109
	West.....	828	55,841	235,721	39,932	81,357	157,060	432,054	20,643	19,665	117,353
	Mountain.....	36	1,134	3,732	954	1,816	2,762	6,258	370	507	1,864
	Pacific.....	792	54,707	231,989	38,978	79,540	154,298	425,796	20,273	19,158	115,489
37	Transportation equipment:										
	United States, total.....	5,348	1,704,572	8,295,773	1,327,078	2,714,603	6,003,250	13,925,983	924,646	1,754,498	5,841,722
	Northeast.....	1,296	355,997	1,734,003	273,457	562,661	1,234,971	2,874,418	152,694	250,297	1,151,806
	New England.....	414	92,301	428,176	71,550	147,232	309,054	686,722	22,359	51,580	206,974
	Middle Atlantic.....	882	263,696	1,305,827	201,907	415,428	925,916	2,187,696	130,335	198,717	944,832
	North Central.....	1,832	823,148	4,012,880	660,257	1,352,102	3,038,395	7,124,703	662,569	669,319	3,516,603
	East North Central....	1,507	709,928	3,489,010	574,751	1,173,026	2,659,134	6,122,192	641,511	628,064	3,272,893
	West North Central....	325	113,220	524,870	85,505	179,076	379,260	1,002,511	21,058	41,255	243,710
	South.....	931	199,753	914,169	158,574	315,565	667,261	1,438,282	46,593	116,666	524,338
	South Atlantic.....	465	97,583	452,574	77,329	156,703	331,203	800,181	22,974	63,631	286,812
	East South Central....	126	26,047	106,873	21,717	40,172	80,978	173,411	3,985	21,285	104,804
	West South Central....	340	76,123	354,721	59,526	118,690	255,078	464,688	19,633	31,750	132,722
	West.....	1,289	325,672	1,634,719	234,789	484,273	1,062,622	2,488,579	62,790	138,216	648,975
	Mountain.....	62	7,394	36,007	6,201	13,172	28,781	49,952	1,023	1,114	5,229
	Pacific.....	1,227	318,278	1,598,712	228,587	471,101	1,033,840	2,438,626	61,767	137,102	643,746
38	Instruments and related products:										
	United States, total.....	3,142	272,586	1,200,322	195,597	391,403	759,459	2,128,706	94,008	244,872	1,140,499
	Northeast.....	1,512	167,860	760,842	119,969	238,369	477,436	1,335,411	65,617	162,881	772,465
	New England.....	302	36,599	143,394	27,563	54,637	94,275	256,254	10,887	37,212	171,358
	Middle Atlantic.....	1,210	131,261	617,448	92,406	183,732	383,161	1,079,156	54,730	125,669	601,107
	North Central.....	840	78,257	330,325	55,721	113,512	209,492	598,948	16,562	65,862	302,646
	East North Central....	688	60,938	256,694	44,096	89,934	166,748	457,366	12,484	(D)	(D)
	West North Central....	152	17,319	73,631	11,625	23,577	42,744	141,582	4,077	(D)	(D)
	South.....	294	11,307	40,503	8,999	17,732	28,049	69,728	2,638	8,448	30,903
	South Atlantic.....	135	5,121	17,606	3,963	7,762	11,407	27,147	956	2,949	9,585
	East South Central....	39	3,390	12,654	2,827	5,588	9,872	19,672	632	3,015	13,319
	West South Central....	120	2,795	10,242	2,209	4,381	6,769	22,908	1,049	2,484	7,999
	West.....	496	15,161	68,651	10,906	21,788	44,480	124,618	9,190	7,681	34,485
	Mountain.....	58	3-3	3,049	644	1,152	1,934	5,175	241	399	1,902
	Pacific.....	438	14,297	65,602	10,262	20,635	42,496	119,443	8,948	7,282	32,583

See footnotes at end of table.

## GENERAL SUMMARY

Table 6B.—GENERAL STATISTICS FOR OPERATING MANUFACTURING ESTABLISHMENTS FOR INDUSTRY GROUPS BY REGIONS AND DIVISIONS: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction.)

Code	Major industry group, region and division <sup>1</sup>	Establishments, number	1954							1947	
			All employees		Production workers			Value added by manufacture	Capital expenditures, new	All employees, number	Value added by manufacture
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	(\$1,000)	(\$1,000)		(\$1,000)
39	Miscellaneous manufactures <sup>2</sup> :										
	United States, total.....	517,010	695,917	2,658,182	555,746	1,089,229	1,861,873	4,473,050	176,036	463,390	2,066,259
	Northeast.....	9,246	367,040	1,361,525	296,058	576,835	952,955	2,279,833	80,251	285,848	1,306,326
	New England.....	1,980	119,631	416,749	98,657	194,082	304,940	683,749	26,901	107,000	467,913
	Middle Atlantic.....	7,266	248,008	944,775	197,401	382,751	648,013	1,596,084	53,348	178,848	838,413
	North Central.....	4,015	211,200	848,807	167,473	331,417	601,290	1,455,539	53,267	132,915	587,470
	East North Central....	3,145	154,036	(D)	121,064	(D)	(D)	(D)	(D)	110,150	493,383
	West North Central....	870	57,163	(D)	46,408	(D)	(D)	(D)	(D)	22,765	94,087
	South.....	1,708	61,616	211,769	49,606	98,378	147,176	333,133	29,167	26,162	87,979
	South Atlantic.....	815	27,262	91,131	21,207	42,022	59,238	148,732	7,637	15,512	50,461
	East South Central....	302	14,204	49,632	11,935	23,169	36,092	77,098	8,204	5,285	16,211
	West South Central....	591	20,149	71,004	16,462	33,185	51,844	107,301	13,323	5,365	21,307
	West.....	2,041	56,059	236,079	42,605	82,597	160,451	404,543	13,348	18,465	84,484
	Mountain.....	287	5,049	(D)	4,009	(D)	(D)	(D)	(D)	(D)	(D)
	Pacific.....	1,754	51,009	(D)	38,595	(D)	(D)	(D)	(D)	(D)	(D)

Note: Detailed figures may not add to the totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies.

NA Not available.

<sup>1</sup>For definitions of the divisions, see table 4A.<sup>2</sup>The 1954 and 1947 "All industries" totals are not strictly comparable because of differences in coverage between the two years in major groups 20 and 24. (See footnote 4.)<sup>3</sup>The differences in coverage of establishments in the logging and fluid milk industries significantly affected the comparability of the "All industries" total, for four of the nine geographic divisions. Consequently 1947 "All manufacturing" totals are not shown in the table for these divisions. In the following table, comparable employment and value added by manufactures figures (excluding the establishments in the milk and logging industries) are shown for these divisions:

Division	1954		1947	
	All employees, number	Value added by manufacture (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
West South Central.....	688,183	5,549,166	546,083	3,008,043
Mountain.....	174,472	1,408,032	136,852	762,599
Pacific.....	1,298,588	10,723,201	906,862	5,496,961

<sup>4</sup>The 1954 Census coverage of establishments in Major Industry Group 20, Food and Kindred Products, and Major Industry Group 24, Lumber and Wood Products, are not comparable with the corresponding group figures published in 1947. In 1947, the Standard Industrial Classification of sub-group 202, Dairy Products differed from that used in 1954 chiefly in that the Industries 2026, Fluid Milk, and 2027, Fluid Milk and Other Products, were not included within the scope of manufacturing. Also, Logging Camps and Contractors, Industry 2411, were not included in the 1947 Census of Manufactures. They were, however, included in the 1954 Census (see Introduction for complete explanation). Comparable employment and value added by manufacture figures for the United States by Divisions for 1954 and 1947 for the Food and Kindred Products Industries (excluding Fluid Milk, Industry 2066, and Fluid Milk and Other Products, Industry 2027) and for the Wood Products group (excluding Logging Camps and Contractors, Industry 2411, are shown below:

Code	Area	1954		1947	
		All employees, number	Value added by manufacture (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
	UNITED STATES				
20	Food and kindred products, except Sub-group 202, Dairy Products.....	1,363,773	11,143,480	1,349,100	8,427,804
24	Lumber & wood prod., exc. Ind. 2411, Logging Camps & Contractors.....	570,426	2,798,479	641,799	2,520,402
	NEW ENGLAND				
20	Food and kindred products, except Sub-group 202, Dairy Products.....	64,000	412,000	66,361	339,023
24	Lumber & wood prod., exc. Ind. 2411, Logging Camps & Contractors.....	28,446	115,463	33,574	114,201
	MIDDLE ATLANTIC				
20	Food and kindred products, except Sub-group 202, Dairy Products.....	271,000	2,394,000	272,963	1,822,069
24	Lumber & wood prod., exc. Ind. 2411, Logging Camps & Contractors.....	35,869	173,892	37,335	142,888
	EAST NORTH CENTRAL				
20	Food and kindred products, except Sub-group 202, Dairy Products.....	317,648	2,821,551	321,150	2,161,720
24	Lumber & wood prod., exc. Ind. 2411, Logging Camps & Contractors.....	62,184	327,681	66,485	273,872
	WEST NORTH CENTRAL				
20	Food and kindred products, except Sub-group 202, Dairy Products.....	180,153	1,410,525	189,883	1,116,249
24	Lumber & wood prod., exc. Ind. 2411, Logging Camps & Contractors.....	21,481	110,048	21,054	78,517
	SOUTH ATLANTIC				
20	Food and kindred products, except Sub-group 202, Dairy Products.....	157,765	1,024,111	135,788	657,604
24	Lumber & wood prod., exc. Ind. 2411, Logging Camps & Contractors.....	120,464	387,774	139,700	383,814
	EAST SOUTH CENTRAL				
20	Food and kindred products, except Sub-group 202, Dairy Products.....	65,548	529,040	62,366	475,749
24	Lumber & wood prod., exc. Ind. 2411, Logging Camps & Contractors.....	71,056	244,865	98,747	285,087
	WEST SOUTH CENTRAL				
20	Food and kindred products, except Sub-group 202, Dairy Products.....	108,111	769,539	106,069	571,524
24	Lumber & wood prod., exc. Ind. 2411, Logging Camps & Contractors.....	57,732	204,268	90,924	272,233
	MOUNTAIN				
20	Food and kindred products, except Sub-group 202, Dairy Products.....	35,471	254,765	36,958	222,418
24	Lumber & wood prod., exc. Ind. 2411, Logging Camps & Contractors.....	23,346	145,403	20,930	100,538
	PACIFIC				
20	Food and kindred products, except Sub-group 202, Dairy Products.....	163,340	1,527,687	157,562	1,061,448
24	Lumber & wood prod., exc. Ind. 2411, Logging Camps & Contractors.....	149,849	1,089,085	133,050	869,252

<sup>5</sup>Includes privately owned and/or operated establishments classified in Major Industry Group 19, Ordnance and Accessories. (Establishments which are Government-owned and operated are not included.)

## Major Group 20.—Food and Kindred Products

This major group includes establishments manufacturing foods and beverages for human consumption and certain related products, such as manufactured ice, chewing gum, and prepared feeds for animals and fowls. Establishments which are primarily engaged in processing and distributing fluid milk and cream are also included. Establishments primarily engaged in

extracting animal and vegetable oils are classified in Major Group 28, Chemicals and Products, and establishments producing meat, poultry, dairy, bakery, and confectionery products for sale chiefly at retail on the manufacturing premises are classified in Trade Industries.

Table 1.—GENERAL STATISTICS FOR THE INDUSTRY GROUP: 1954 AND EARLIER YEARS  
(For explanation of column captions see Introduction)

Year <sup>1</sup>	Establish- ments, number	All employees <sup>2</sup>		Production workers <sup>2</sup>			Value added by manufacture <sup>3</sup>	Capital expendi- tures, new	Horsepower of prime movers and electric motors <sup>4</sup>
		Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
1954 <sup>5</sup> .....	42,374	1,647,204	6,201,500	1,138,239	2,316,661	3,759,071	13,400,218	789,050	7,503
1953 <sup>6</sup> .....	(NA)	1,455,110	5,266,485	1,059,095	2,160,257	3,435,455	11,937,510	544,698	}
1952 <sup>6</sup> .....	36,829	1,479,583	5,097,690	1,075,104	2,215,823	3,312,530	11,340,145	526,658	
1951 <sup>6</sup> .....	38,237	1,473,560	4,819,078	1,079,173	2,217,895	3,142,933	10,578,846	687,269	
1950 <sup>6</sup> .....	38,466	1,492,960	4,414,973	1,074,750	2,217,588	2,857,603	10,104,316	649,445	
1949 <sup>6</sup> .....	(NA)	1,463,019	4,198,650	1,076,845	2,221,939	2,706,862	9,425,983	723,401	(NA)
1947.....	42,802	1,461,364	3,832,787	1,111,466	2,368,184	2,616,495	9,115,975	820,847	
1939.....	43,667	(NA)	(NA)	802,133	(NA)	888,355	3,484,696	(NA)	5,642
1937.....	48,763	(NA)	(NA)	890,503		981,409	3,370,755	(NA)	
1935.....	48,982	932,429	1,067,539	800,108		804,159	2,804,162		
1933.....	40,325	767,655	776,783	668,927		624,212	2,412,885		
1931.....	48,729	(NA)	(NA)	646,959		740,208	2,745,357		
1929.....	55,325	871,910	1,202,590	740,937		895,713	3,339,848		
1927.....	48,947	795,881	1,104,311	668,311		817,238	2,839,984		
1925.....	48,151	792,772	1,062,044	667,361		798,867	2,718,202		
1923.....	51,173	818,098	1,083,559	676,064		791,725	2,505,644		
1921.....	51,502	759,931	1,016,293	620,750		742,352	2,119,577		

NA Not available.

<sup>1</sup>In addition to data for operating establishments, manufacturers' central administrative offices and auxiliary units reported 65,805 employees with a payroll of \$374,629 thousand in 1954. Similar data are shown for the years 1949-1953 in the Annual Survey of Manufactures volumes. Data for these units are not available for the years prior to 1949.

<sup>2</sup>The figures for 1939 through 1954 include data for employees of manufacturing establishments who were engaged in distribution and construction work. The extent to which data for such employees are included in the figures for earlier years is not known. "Production workers" includes driver salesmen in the bakery products industry (S.I.C. 2051) for 1939 and prior years, but not for 1947-1954. The number of driver salesmen for 1939 was at least 120,000.

<sup>3</sup>Value of products less cost of materials, supplies, fuel, electricity, and contract work. For 1921-1933, cost of contract work was not subtracted from value of products in calculating value added by manufacture.

<sup>4</sup>Driven by purchased energy.

<sup>5</sup>The figures for 1954 include data for milk bottling plants (SIC 2026 and 2027) which were not covered in prior years. Value added for these two industries (SIC 2026 and 2027) was \$1,475,638 thousand in 1954.

<sup>6</sup>The figures for 1949-1953 represent estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period.



## MANUFACTURES--INDUSTRY STATISTICS

Table 2.—GENERAL STATISTICS FOR INDUSTRY GROUPS BY REGIONS AND STATES: 1954 AND 1947  
(For explanation of column captions see Introduction)

Industry group, region, and State	Number of establish- ments	1954					1947			
		All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
		Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
Food and kindred products, (S.I.C. Group 20), total <sup>1</sup>	42,374	1,647,204	6,201,500	1,138,239	2,316,661	3,759,071	13,400,218	789,050	( <sup>1</sup> )	( <sup>1</sup> )
New England.....	3,032	84,052	298,275	55,177	109,553	166,999	554,867	27,914	}	
Maine.....	403	10,955	30,302	8,691	16,644	20,763	62,237	3,410		
New Hampshire.....	191	2,816	9,267	1,674	3,543	5,017	17,478	1,377		
Vermont.....	161	2,745	9,525	1,959	3,983	6,060	25,738	1,016		
Massachusetts.....	1,450	48,658	176,233	31,799	63,103	99,042	313,433	15,187		
Rhode Island.....	268	6,116	22,611	3,745	7,542	12,019	40,516	2,088		
Connecticut.....	559	12,760	50,336	7,307	14,736	24,096	95,462	4,833		
Middle Atlantic.....	8,020	325,800	1,302,675	221,586	447,469	778,862	2,841,823	131,408		
New York.....	3,812	152,442	630,736	104,697	213,897	382,801	1,365,436	61,414		
New Jersey.....	1,254	60,172	255,459	40,814	80,660	153,597	650,466	27,194		
Pennsylvania.....	2,954	113,186	416,479	76,075	152,910	242,463	825,920	42,799		
East North Central.....	9,422	391,908	1,586,879	274,814	564,946	981,007	3,447,433	194,767	}	
Ohio.....	2,109	82,923	335,937	51,817	109,044	181,490	689,357	39,031		
Indiana.....	1,207	48,543	187,075	34,218	70,945	118,690	391,402	20,405		
Illinois.....	2,239	140,151	582,399	103,364	209,489	382,178	1,337,344	67,809		
Michigan.....	1,677	57,073	241,193	39,025	80,488	141,177	514,730	31,789		
Wisconsin.....	2,190	63,217	240,273	46,387	94,978	157,470	514,597	35,731		
West North Central.....	4,852	216,710	853,750	154,680	324,683	567,519	1,668,361	100,749		
Minnesota.....	1,183	49,470	198,587	35,717	75,880	134,263	398,774	28,903		
Iowa.....	1,086	51,270	202,506	37,388	77,521	137,895	361,180	18,739		
Missouri.....	1,080	53,750	216,678	36,349	73,742	132,800	460,274	27,985		
North Dakota.....	159	3,246	10,739	2,227	4,923	6,968	19,892	1,358		
South Dakota.....	218	7,791	28,417	5,648	12,375	19,371	56,713	2,194		
Nebraska.....	484	27,730	107,601	20,659	44,320	76,381	197,635	11,482		
Kansas.....	642	23,451	89,221	16,689	35,919	59,839	173,889	10,085		
South Atlantic.....	4,813	186,465	568,862	126,189	256,340	312,634	1,236,284	92,193	}	( <sup>1</sup> )
Delaware.....	142	6,065	17,300	4,823	9,206	11,227	37,509	4,489		
Maryland.....	680	37,755	122,524	27,186	52,125	71,449	246,709	16,039		
District of Columbia	81	6,647	28,511	3,447	6,836	11,700	50,377	3,460		
Virginia.....	773	28,651	81,192	20,450	41,136	47,086	167,103	12,167		
West Virginia.....	314	8,302	28,011	4,748	10,364	13,049	51,492	4,082		
North Carolina.....	846	24,993	73,346	14,995	31,291	34,451	155,557	10,250		
South Carolina.....	369	9,062	25,824	5,262	11,112	11,679	51,417	6,662		
Georgia.....	811	34,595	100,330	24,255	49,944	58,857	263,797	15,664		
Florida.....	797	30,391	91,821	21,019	44,323	53,132	212,319	19,376		
East South Central.....	2,302	80,621	261,987	54,014	111,536	150,858	642,297	34,972	}	
Kentucky.....	600	26,403	99,828	18,757	39,423	63,397	299,389	11,035		
Tennessee.....	743	27,362	90,488	17,627	36,976	49,104	187,173	13,242		
Alabama.....	531	16,073	45,754	10,161	20,661	23,621	95,528	6,208		
Mississippi.....	428	10,782	25,916	7,468	14,474	14,734	60,206	4,486		
West South Central.....	3,781	127,041	403,044	85,182	175,998	225,770	921,791	54,713		
Arkansas.....	505	12,788	32,964	9,206	18,442	19,386	75,312	5,646	}	
Louisiana.....	762	30,734	91,751	21,789	43,510	54,572	214,983	14,007		
Oklahoma.....	593	15,655	52,014	10,071	21,464	28,445	98,434	6,145		
Texas.....	1,921	67,862	226,314	44,114	92,581	123,366	533,060	28,914		
Mountain.....	1,738	44,420	157,241	31,440	64,015	99,130	325,188	24,835		
Montana.....	218	4,088	14,539	2,911	6,064	9,591	31,888	1,835	}	
Idaho.....	232	6,752	21,274	5,377	10,527	15,312	49,627	5,020		
Wyoming.....	106	1,392	4,680	1,007	2,058	3,207	9,536	629		
Colorado.....	509	16,641	60,925	11,846	24,151	39,225	120,852	8,619		
New Mexico.....	155	2,654	8,596	1,611	3,461	4,272	17,359	1,481		
Arizona.....	203	4,523	17,943	2,604	5,509	8,797	38,385	2,674		
Utah.....	258	7,540	26,111	5,549	11,232	16,986	50,053	3,825		
Nevada.....	57	826	3,171	533	1,009	1,735	7,484	748		
Pacific.....	4,414	190,183	768,784	135,152	262,116	476,290	1,762,172	127,495		
Washington.....	783	27,192	104,620	19,452	37,449	65,571	219,645	13,609		
Oregon.....	573	19,032	69,274	14,067	26,996	44,637	141,668	6,663		
California.....	3,058	143,958	594,889	101,632	197,671	366,080	1,400,857	107,223		
Meat products (S.I.C. Group 201), total <sup>1</sup>	4,992	311,366	1,234,617	243,135	504,344	898,665	1,930,974	91,362	274,493	1,279,742
New England.....	263	9,035	34,438	7,114	15,006	25,042	56,552	2,679	8,174	36,366
Maine.....	42	1,112	2,987	943	1,934	2,275	7,396	( <sup>4</sup> )	434	2,005
New Hampshire.....	22	457	1,608	383	807	1,366	2,752	( <sup>4</sup> )	328	1,499
Vermont.....	10	151	494	123	218	336	675	(D)	112	596
Massachusetts.....	121	5,655	22,944	4,380	9,217	16,519	36,477	1,659	5,881	26,155
Rhode Island.....	21	236	892	177	369	524	1,350	( <sup>4</sup> )	311	1,598
Connecticut.....	47	1,422	5,512	1,106	2,459	4,019	7,899	(D)	1,108	4,512

See footnotes at end of table.

## FOOD AND KINDRED PRODUCTS

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Table 2.—GENERAL STATISTICS FOR INDUSTRY GROUPS BY REGIONS AND STATES: 1954 AND 1947—Continued

(For explanation of column captions see Introduction)

Industry group, region, and State	1954								1947	
	Number of establish- ments	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
		Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
Meat products (S.I.C. Group 201)—Continued										
Middle Atlantic.....	822	33,596	139,154	25,241	52,806	95,337	217,153	9,344	30,825	159,944
New York.....	350	13,490	59,457	10,228	21,518	40,492	97,612	4,415	12,936	73,235
New Jersey.....	126	5,426	24,205	4,194	8,913	17,269	38,776	1,799	4,857	24,961
Pennsylvania.....	346	14,680	55,492	10,818	22,373	37,575	80,764	3,129	13,032	61,744
East North Central.....	1,163	80,239	347,380	62,569	131,474	253,690	524,206	25,164	74,961	358,042
Ohio.....	334	14,257	60,069	10,556	22,566	40,259	124,000	3,357	10,500	53,768
Indiana.....	181	11,022	47,004	8,924	19,612	36,814	67,722	3,037	9,308	50,693
Illinois.....	283	37,562	166,237	29,841	62,278	124,336	216,044	13,602	40,389	184,479
Michigan.....	223	6,211	27,086	4,629	9,879	18,182	49,384	2,440	6,152	34,922
Wisconsin.....	142	11,185	46,983	8,617	17,136	34,096	67,055	2,726	8,612	34,180
West North Central.....	523	85,989	361,207	67,856	141,448	277,320	538,855	18,686	85,977	389,287
Minnesota.....	74	18,346	80,672	14,287	29,045	62,301	136,957	5,148	17,516	84,232
Iowa.....	102	27,980	117,995	22,247	46,119	90,217	166,638	5,550	25,721	101,148
Missouri.....	140	11,229	45,345	8,854	18,194	33,801	59,628	2,149	11,022	45,575
North Dakota.....	16	847	3,422	669	1,547	2,638	4,965	(4)	1,103	4,204
South Dakota.....	25	4,225	17,110	3,241	7,309	12,840	35,194	706	4,166	21,998
Nebraska.....	78	13,199	54,662	10,796	22,751	44,719	77,538	2,153	12,448	79,786
Kansas.....	88	10,161	42,001	7,760	16,481	30,801	57,933	2,788	14,001	52,344
South Atlantic.....	637	32,481	95,229	26,419	53,522	67,587	163,170	10,729	21,169	79,379
Delaware.....	28	1,794	4,385	1,622	3,186	3,564	7,877	(4)	1,713	5,514
Maryland.....	83	7,066	23,740	5,699	11,121	16,416	37,796	3,599	5,383	20,574
District of Columbia..	9	542	2,021	427	665	1,182	4,196	(4)	473	1,623
Virginia.....	91	5,434	15,410	4,628	9,475	11,845	29,321	1,484	3,332	13,825
West Virginia.....	30	860	2,426	716	1,544	1,821	4,145	(4)	671	2,219
North Carolina.....	138	3,870	8,815	3,165	6,274	6,001	18,708	873	1,194	5,885
South Carolina.....	54	1,566	4,625	1,137	2,489	2,813	7,255	(4)	1,135	4,476
Georgia.....	129	8,569	25,453	6,864	14,243	18,221	40,250	2,352	5,377	18,037
Florida.....	75	2,775	8,352	2,158	4,521	5,721	13,618	1,099	1,891	7,226
East South Central.....	261	13,323	42,839	10,462	21,528	30,243	74,668	5,767	8,640	41,371
Kentucky.....	74	2,877	10,958	2,243	4,840	7,789	18,839	945	2,078	11,112
Tennessee.....	75	4,747	17,937	3,490	7,450	12,334	29,404	3,057	3,538	17,267
Alabama.....	62	3,358	8,920	2,677	5,370	6,272	17,172	1,081	2,295	10,142
Mississippi.....	50	2,340	5,024	2,051	3,867	3,847	9,251	682	729	2,850
West South Central.....	511	24,300	78,423	18,941	38,848	54,983	137,887	6,345	18,883	85,519
Arkansas.....	74	3,268	7,152	2,907	5,723	5,707	14,125	1,084	951	4,237
Louisiana.....	69	1,821	5,608	1,314	2,739	3,419	8,360	639	1,689	6,841
Oklahoma.....	74	4,228	15,412	3,124	6,761	10,465	22,465	799	4,121	16,601
Texas.....	294	14,981	50,251	11,594	23,623	35,391	92,996	3,822	12,122	57,940
Mountain.....	217	8,305	32,999	6,394	13,256	23,523	49,385	3,129	6,973	33,630
Montana.....	18	720	2,469	598	1,104	1,824	3,015	(4)	677	3,215
Idaho.....	30	439	1,771	336	760	1,258	4,784	(4)	410	2,447
Wyoming.....	17	109	379	79	155	260	781	(4)	85	285
Colorado.....	70	4,402	18,437	3,378	6,931	13,157	25,072	1,349	3,597	18,080
New Mexico.....	18	367	1,319	253	641	789	2,436	(4)	265	1,334
Arizona.....	21	594	2,352	466	1,032	1,763	4,512	(4)	564	2,105
Utah.....	34	1,597	5,961	1,229	2,511	4,255	7,754	716	1,261	5,324
Pacific.....	595	24,093	102,945	18,136	36,452	70,937	169,095	9,515	18,891	96,105
Washington.....	116	3,472	13,660	2,644	5,217	9,533	22,394	1,116	3,348	17,421
Oregon.....	103	2,686	10,657	1,975	3,865	7,197	15,163	1,285	1,926	8,994
California.....	376	17,934	78,627	13,515	27,365	54,206	131,537	7,114	13,617	69,689
Dairy products (S.I.C. Group 202), total <sup>1</sup> .....										
	11,503	283,431	1,086,291	153,196	332,986	507,163	2,256,738	163,123	(1)	(1)
Northeast.....	3,322	74,115	293,133	38,923	80,765	133,177	590,426	40,602		
Maine.....	111	1,386	4,509	741	1,552	2,062	9,439	949		
New Hampshire.....	97	1,008	3,163	450	987	1,339	6,004	633		
Rhode Island.....	98	1,510	5,332	720	1,456	2,132	10,796	519		
Connecticut.....	215	4,611	19,141	2,080	4,218	6,804	36,558	2,411		
New York.....	1,094	24,274	99,431	14,500	30,595	53,151	212,991	15,231		
New Jersey.....	357	7,430	32,381	4,016	8,101	14,639	61,755	4,288		
East North Central.....	3,333	74,260	297,858	44,589	98,739	155,230	625,882	43,934		
Indiana.....	318	9,559	37,551	5,256	12,211	17,988	72,987	4,609		
Michigan.....	586	12,067	52,302	6,866	15,389	25,552	117,249	8,705		
Wisconsin.....	1,359	18,230	62,079	13,158	29,071	41,383	131,628	12,136		
West North Central.....	1,910	36,557	128,904	21,455	47,653	64,510	257,836	25,552		
Minnesota.....	638	10,316	36,936	6,518	14,909	20,364	72,072	7,828		
Iowa.....	499	6,616	21,687	4,005	8,442	11,237	47,286	4,188		
Missouri.....	265	9,827	38,946	4,970	11,210	16,083	73,506	8,397		
Nebraska.....	130	3,245	10,990	1,856	4,042	5,301	23,166	1,575		
Kansas.....	190	3,926	12,827	2,392	5,255	7,084	26,360	2,147		

See footnotes at end of table.

## MANUFACTURES—INDUSTRY STATISTICS

Table 2.—GENERAL STATISTICS FOR INDUSTRY GROUPS BY REGIONS AND STATES: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Industry group, region, and State	1954							1947		
	Number of establish- ments	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
		Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
Dairy products (S.I.C. Group 202)—Continued										
South Atlantic.....	693	28,700	102,024	13,189	30,132	39,469	212,173	17,104		
Virginia.....	102	3,884	13,165	2,038	4,812	5,750	25,903	1,860		
West Virginia.....	78	2,563	8,868	1,205	2,800	3,607	19,432	1,513		
North Carolina.....	105	4,647	15,754	2,209	5,089	6,444	35,611	2,891		
South Carolina.....	55	1,436	4,468	647	1,547	1,846	9,961	910		
East South Central.....	503	15,073	49,546	8,423	19,470	23,818	113,257	8,818		
Kentucky.....	140	4,396	15,013	2,641	6,246	7,661	36,854	2,112		
Tennessee.....	171	5,460	18,903	3,045	7,234	9,106	38,387	(D)		
Alabama.....	102	3,004	9,672	1,461	3,154	3,841	22,529	(D)		
Mississippi.....	90	2,212	5,958	1,275	2,835	3,208	15,486	1,638		
West South Central.....	529	18,930	64,736	8,827	19,788	24,684	152,252	11,194	(1)	(1)
Arkansas.....	88	1,657	4,968	962	2,072	2,545	13,463	1,365		
Oklahoma.....	94	3,112	10,311	1,499	3,495	4,210	21,330	1,947		
Mountain.....	482	8,949	31,449	5,164	10,943	16,075	70,423	5,810		
Montana.....	84	975	3,128	567	1,185	1,572	6,586	621		
Idaho.....	91	1,872	6,380	1,360	2,910	4,319	15,514	1,420		
Wyoming.....	33	393	1,263	243	505	696	2,046	(4)		
Colorado.....	121	2,075	7,267	1,097	2,398	3,537	17,460	1,225		
Arizona.....	43	1,325	5,462	560	1,233	2,010	10,081	785		
Utah.....	63	1,127	3,729	683	1,348	2,008	9,043	730		
Pacific.....	731	26,843	118,639	12,622	25,493	50,196	234,485	10,105		
Washington.....	153	4,609	19,536	2,244	4,558	8,895	36,608	1,653		
Canned and frozen foods (S.I.C. Group 203), total <sup>2</sup>										
	3,513	199,238	573,057	175,366	332,414	442,398	1,301,195	77,100	201,109	914,184
New England.....	228	8,537	23,407	7,598	13,647	17,814	40,457	1,827	8,921	41,975
Maine.....	93	4,527	10,828	4,164	7,264	9,025	16,852	698	5,357	24,688
Massachusetts.....	103	3,410	10,863	2,910	5,463	7,628	19,872	989	3,188	15,170
Rhode Island.....	6	148	535	121	231	296	958	(4)	(D)	(D)
Connecticut.....	18	302	851	265	473	640	2,382	(4)	(D)	(D)
Middle Atlantic.....	593	36,700	116,242	31,917	64,602	90,060	280,913	14,569	35,055	173,615
New York.....	347	15,934	48,303	14,104	29,226	37,843	113,711	6,261	14,908	68,701
New Jersey.....	105	11,744	42,012	9,877	19,650	31,920	107,302	4,608	11,200	67,839
Pennsylvania.....	141	9,021	25,926	7,936	15,725	20,296	59,899	3,699	9,027	37,075
East North Central.....	726	34,733	108,499	29,945	60,182	78,713	233,975	14,129	39,462	178,220
Ohio.....	142	3,983	11,472	3,435	6,810	8,243	25,285	2,274	(D)	(D)
Indiana.....	127	5,120	13,312	4,595	9,156	11,050	28,124	1,053	8,199	32,041
Illinois.....	152	10,053	36,753	8,344	16,411	26,113	91,044	4,190	(D)	(D)
West North Central.....	134	5,915	15,697	5,060	10,224	11,523	36,950	2,284	7,643	30,259
Iowa.....	42	1,618	3,636	1,443	2,701	2,876	6,841	(4)	(D)	(D)
Kansas.....	8	257	703	227	499	575	2,553	(4)	(D)	(D)
South and West.....	1,832	113,351	309,210	100,844	183,757	244,285	708,898	44,289	110,028	490,115
Delaware.....	33	2,143	4,304	1,938	3,432	3,429	7,894	(4)	2,126	6,454
Maryland.....	203	9,953	19,992	8,852	14,750	14,540	29,259	2,255	9,801	30,338
Virginia.....	157	5,429	10,516	4,920	8,420	8,089	20,996	1,337	4,508	9,251
North Carolina.....	35	924	1,856	811	1,360	1,343	3,476	(4)	686	1,937
South Carolina.....	23	539	917	503	882	826	2,898	(4)	578	1,105
Georgia.....	44	4,037	7,156	3,657	6,590	5,467	14,688	1,161	3,255	8,081
Florida.....	116	11,277	30,687	10,001	20,391	24,306	75,130	5,995	6,252	24,498
Kentucky.....	15	696	2,300	558	1,091	1,393	3,857	(4)	852	4,707
Tennessee.....	39	1,733	3,623	1,527	2,672	2,664	8,511	(4)	1,603	4,847
Mississippi.....	31	1,572	2,348	1,488	2,300	2,025	4,703	(4)	1,611	2,588
Louisiana.....	84	4,978	7,937	4,471	5,423	5,490	15,323	(4)	4,326	8,546
Oklahoma.....	22	845	1,294	780	1,200	1,039	2,568	(4)	477	1,488
Texas.....	106	4,562	9,584	4,145	7,915	7,508	17,425	745	6,033	21,703
Idaho.....	13	1,321	3,091	1,215	2,085	2,586	5,362	1,547	1,095	3,849
Colorado.....	25	999	2,303	872	1,464	1,626	4,135	(4)	1,310	3,747
Arizona.....	10	150	348	130	285	270	794	(4)	(D)	(D)
Utah.....	29	1,076	2,766	961	1,806	2,160	4,524	1,152	1,936	6,806
Washington.....	189	8,269	25,649	7,361	13,897	20,742	58,823	3,993	10,391	47,934
California.....	483	42,788	146,473	37,662	71,343	117,645	374,361	20,931	41,320	254,696
Grain mill products (S.I.C. Group 204), total <sup>2</sup>										
	3,352	109,944	434,858	79,383	173,331	285,775	1,217,055	65,348	113,217	1,001,692
New England.....	61	2,134	8,115	1,618	3,432	5,290	28,526	850	2,027	16,198
Maine.....	9	242	799	200	416	550	3,926	(4)	(D)	(D)
New Hampshire.....	5	126	435	96	217	311	1,306	(4)	171	1,274
Vermont.....	10	695	3,060	522	1,128	1,973	11,592	(4)	659	6,474
Massachusetts.....	24	844	2,973	633	1,321	1,923	9,496	(4)	(D)	(D)
Connecticut.....	8	190	709	134	280	424	1,911	(4)	223	2,555

See footnotes at end of table.



## FOOD AND KINDRED PRODUCTS

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Table 2.—GENERAL STATISTICS FOR INDUSTRY GROUPS BY REGIONS AND STATES: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Industry group, region, and State	Number of establish- ments	1954						1947			
		All employees		Production workers			Value added by manu- facture	Capital expendi- tures, new	All employees, number	Value added by manu- facture	
		Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)					
Grain mill products (S.I.C. Group 204)—Con.											
Middle Atlantic.....	380	12,816	58,160	9,485	20,783	39,862	143,973	5,985	14,902	156,736	
New York.....	151	9,238	44,874	6,949	15,360	31,841	113,102	4,272	10,182	125,374	
New Jersey.....	32	820	3,185	527	1,064	1,695	9,920	(4)	1,264	10,322	
Pennsylvania.....	197	2,756	10,100	2,007	4,357	6,326	20,950	1,409	3,456	21,040	
East North Central.....	570	26,372	113,875	19,283	40,227	76,751	361,810	15,425	25,644	226,111	
Ohio.....	134	5,404	22,136	3,952	8,445	15,645	61,258	4,441	5,199	48,539	
Indiana.....	112	3,650	15,506	2,395	5,257	9,201	40,595	2,828	3,102	20,561	
Illinois.....	160	8,352	36,972	6,080	12,761	24,222	138,301	3,224	9,684	89,761	
Michigan.....	90	7,580	33,584	5,860	11,562	24,180	108,460	4,166	6,189	55,670	
Wisconsin.....	74	1,384	5,677	995	2,201	3,501	13,194	766	1,470	11,580	
West North Central.....	639	23,464	93,565	17,211	38,239	63,857	259,110	15,453	26,102	259,082	
Minnesota.....	121	5,128	21,743	3,934	9,045	15,226	51,390	3,137	5,721	60,936	
Iowa.....	152	5,141	19,981	3,351	6,960	11,660	57,313	2,750	3,962	37,514	
Missouri.....	124	5,407	21,061	3,916	8,289	14,465	60,733	3,179	6,303	59,891	
Nebraska.....	114	3,394	12,961	2,724	6,325	9,902	40,774	3,519	3,125	25,327	
Kansas.....	107	3,904	15,842	2,909	6,778	11,279	44,365	2,691	6,256	66,864	
South Atlantic.....	542	10,328	31,785	7,070	15,650	17,974	73,994	7,798	8,699	52,602	
Delaware.....	19	797	3,301	547	1,113	1,976	10,836	2,752	340	3,558	
Maryland.....	39	1,073	3,856	753	1,732	2,460	11,897	785	1,164	10,681	
Virginia.....	119	1,809	5,214	1,218	2,738	2,870	11,195	887	1,933	10,348	
North Carolina.....	173	2,726	7,584	1,811	4,086	4,193	17,142	1,478	2,117	11,611	
South Carolina.....	44	773	2,190	551	1,147	1,119	4,564	(4)	482	2,341	
Georgia.....	101	1,977	5,675	1,471	3,211	3,453	13,146	1,033	1,393	7,742	
Florida.....	35	867	2,823	522	1,200	1,409	4,127	(4)	814	4,224	
East South Central.....	303	7,288	23,986	5,164	11,725	15,203	65,428	3,201	7,336	50,006	
Kentucky.....	82	1,647	5,389	1,204	2,823	3,724	14,077	676	1,905	12,914	
Tennessee.....	131	3,452	11,627	2,424	5,326	7,016	31,766	1,233	3,687	26,618	
Alabama.....	52	1,463	4,906	998	2,473	3,130	12,668	741	1,169	6,577	
Mississippi.....	38	726	2,064	536	1,101	1,332	6,916	550	575	3,897	
West South Central.....	361	12,918	43,628	9,143	20,984	26,131	109,245	8,871	13,875	113,727	
Arkansas.....	52	1,576	4,753	1,145	2,678	2,817	13,053	1,449	1,358	8,942	
Louisiana.....	68	2,160	6,275	1,740	3,945	4,126	20,885	1,138	2,503	17,947	
Oklahoma.....	59	1,876	7,179	1,307	3,019	4,364	18,167	1,835	2,520	23,473	
Texas.....	182	7,304	25,421	4,950	11,342	14,823	57,138	4,447	7,494	63,365	
Mountain.....	169	3,665	13,693	2,633	6,057	9,428	33,976	2,407	3,941	31,223	
Montana.....	14	388	1,662	295	671	1,243	5,168	(4)	511	4,251	
Idaho.....	22	472	1,678	388	905	1,321	3,651	(4)	526	4,227	
Colorado.....	62	1,122	3,812	858	1,974	2,840	9,189	846	1,412	11,858	
New Mexico.....	17	293	935	198	431	570	2,102	(4)	(D)	(D)	
Arizona.....	19	547	2,184	282	627	956	3,383	(4)	466	3,179	
Utah.....	31	744	3,085	541	1,306	2,271	9,994	(4)	738	5,816	
Pacific.....	327	10,955	48,048	7,773	16,230	31,276	140,989	5,356	10,691	96,007	
Washington.....	50	2,019	8,644	1,536	3,114	6,274	24,629	1,029	2,366	21,183	
Oregon.....	53	1,581	6,622	1,103	2,370	4,379	13,303	(4)	1,789	16,692	
California.....	224	7,354	32,782	5,133	10,745	20,621	103,055	3,853	6,536	58,132	
Bakery products (S.I.C. Group 205), total <sup>2</sup> .....	6,414	291,100	1,124,426	178,778	362,381	587,592	1,977,188	89,630	278,784	1,362,985	
New England.....	597	21,393	78,402	12,831	25,985	40,854	131,401	5,500	21,919	97,164	
New Hampshire.....	28	652	2,389	356	794	1,132	4,188	(4)	829	4,015	
Vermont.....	18	433	1,492	283	557	890	2,616	(4)	445	1,925	
Massachusetts.....	289	12,220	44,305	7,289	14,650	23,221	73,150	3,113	13,690	59,781	
Middle Atlantic.....	1,627	77,325	304,767	48,966	98,066	171,448	520,206	18,027	78,296	397,365	
New York.....	759	37,254	150,967	24,142	49,231	88,620	264,536	9,663	36,686	211,156	
New Jersey.....	260	12,207	48,890	7,303	13,465	25,564	73,203	2,742	9,497	47,318	
Pennsylvania.....	608	27,863	104,909	17,520	35,368	57,263	182,466	5,621	32,113	138,891	
East North Central.....	1,362	68,204	273,315	42,106	85,813	143,403	480,538	20,059	65,991	316,910	
Ohio.....	337	20,461	82,267	11,736	24,524	40,069	141,790	6,928	20,493	98,185	
Illinois.....	402	21,868	87,704	14,373	28,806	50,146	175,638	5,827	19,541	98,331	
Michigan.....	287	12,918	54,241	8,238	17,179	29,384	87,606	3,846	12,762	62,957	
West North Central.....	619	25,738	97,042	15,222	30,263	47,934	172,814	8,585	25,486	119,373	
Minnesota.....	118	4,474	17,042	2,555	5,220	8,266	29,802	1,002	4,842	23,399	
Missouri.....	173	9,685	37,079	5,837	10,987	18,464	62,988	3,274	9,743	45,836	
North Dakota.....	29	747	2,420	471	984	1,323	4,671	518	744	3,809	
South Dakota.....	42	1,091	3,583	698	1,431	2,000	6,341	(4)	967	4,626	
South Atlantic.....	539	31,374	108,681	19,510	41,494	54,783	199,183	16,555	28,249	131,973	
Delaware.....	11	307	1,394	176	363	616	2,607	(4)	378	2,360	
Maryland.....	84	4,919	17,568	3,224	6,841	9,447	28,884	1,381	5,377	23,701	
District of Columbia..	21	1,988	8,939	1,119	2,245	4,004	13,501	504	2,172	10,113	
South Carolina.....	31	1,784	5,751	1,023	2,317	2,479	9,228	4,165	1,799	8,816	
Georgia.....	65	5,527	18,919	3,764	7,976	10,687	47,095	5,085	4,458	25,974	
Florida.....	101	4,319	14,327	2,624	5,653	7,148	26,276	1,472	3,343	15,337	

See footnotes at end of table.

## MANUFACTURES--INDUSTRY STATISTICS

Table 2.—GENERAL STATISTICS FOR INDUSTRY GROUPS BY REGIONS AND STATES: 1954 AND 1947—Continued

(For explanation of column captions see Introduction)

Industry group, region, and State	1954							1947		
	Number of establish- ments	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
		Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
Bakery products (S.I.C. Group 205)—Continued										
East South Central.....	243	12,466	41,493	7,566	15,286	20,096	70,518	3,918	11,504	48,450
Kentucky.....	62	2,783	10,748	1,714	3,481	5,251	17,698	893	2,850	11,549
Tennessee.....	86	5,121	16,583	3,125	6,087	8,063	30,117	1,462	4,412	20,452
West South Central.....	540	19,981	70,598	11,708	24,773	33,498	134,705	6,451	17,408	83,448
Oklahoma.....	112	2,756	9,758	1,566	3,273	4,399	15,551	(D)	2,576	11,378
Texas.....	266	11,078	40,296	6,599	14,061	19,429	82,146	3,002	9,658	50,028
Mountain.....	287	7,290	26,014	4,831	9,929	14,737	50,077	2,412	6,771	31,280
Montana.....	46	739	2,410	493	1,068	1,497	4,594	(4)	686	3,356
Idaho.....	25	473	1,555	301	618	879	2,781	(4)	586	2,785
Wyoming.....	30	249	649	179	350	451	1,143	(4)	288	1,128
New Mexico.....	28	545	1,732	371	803	1,011	2,989	(4)	487	2,156
Arizona.....	35	818	3,497	488	1,054	1,778	6,882	(4)	664	3,787
Nevada.....	12	156	664	112	216	384	1,163	(4)	137	603
Pacific.....	600	27,325	124,111	16,032	30,768	60,835	217,741	8,120	23,160	137,022
California.....	405	20,681	96,945	11,973	23,157	46,827	166,154	6,099	16,547	104,136
Sugar (S.I.C. Group 206), total <sup>2</sup> .....										
	137	30,166	117,834	25,083	53,204	92,903	250,759	19,123	35,423	233,869
Northeast.....	9	7,788	34,059	6,084	11,800	24,936	60,243	5,637	7,659	41,128
New York.....	5	3,815	16,696	2,923	5,600	11,979	29,519	2,822	3,671	22,008
East North Central.....	9	1,109	4,587	899	2,060	3,512	8,276	(4)	1,846	7,629
West North Central.....	12	1,577	6,208	1,307	2,843	4,954	14,593	837	1,692	14,498
South and West.....	107	19,691	72,979	16,792	36,500	59,500	167,646	12,341	24,226	170,614
Louisiana.....	53	6,138	19,200	5,446	12,793	16,311	43,814	3,549	8,241	36,552
Montana.....	4	632	2,600	515	1,177	2,077	6,376	(4)	944	8,668
Colorado.....	16	2,129	7,890	1,717	3,425	6,040	18,174	(D)	3,012	28,252
Utah.....	5	575	2,097	493	1,092	1,766	2,684	(4)	725	5,621
Candy and related products (S.I.C. Group 207), total <sup>2</sup> .....										
	1,490	80,425	254,988	65,917	129,262	181,104	596,211	21,272	91,710	587,065
New England.....	112	8,199	25,460	6,808	12,892	18,176	41,304	1,447	(D)	(D)
Massachusetts.....	83	7,346	22,840	6,086	11,510	16,282	33,805	1,297	9,000	50,105
Middle Atlantic.....	448	30,414	99,782	25,233	48,947	72,611	244,749	6,775	(D)	(D)
New York.....	184	13,752	47,207	11,290	21,901	34,002	118,861	2,817	15,207	108,690
New Jersey.....	65	3,098	11,027	2,496	5,175	7,745	25,895	989	(D)	(D)
Pennsylvania.....	199	13,564	41,547	11,447	21,871	30,864	99,993	2,968	15,602	105,017
East North Central.....	320	21,457	73,322	17,221	34,035	51,252	190,145	6,614	23,322	187,486
Ohio.....	102	1,917	5,350	1,559	2,952	3,877	8,923	(4)	1,579	7,425
Indiana.....	19	836	2,812	689	1,463	2,046	5,502	(4)	897	3,977
Illinois.....	132	16,413	57,547	13,076	25,907	40,027	162,392	5,351	17,906	160,705
Michigan.....	34	846	2,761	763	1,507	2,279	3,513	(4)	1,294	5,059
Wisconsin.....	33	1,444	4,851	1,132	2,205	3,021	9,813	(4)	1,646	10,320
West North Central.....	70	3,069	9,214	2,354	4,869	6,053	17,191	621	4,802	22,700
Minnesota.....	21	1,035	3,094	847	1,718	2,142	5,863	(4)	1,173	6,011
Iowa.....	15	359	1,018	305	659	679	1,845	(4)	519	2,139
Missouri.....	23	1,103	3,369	731	1,528	2,027	5,911	(4)	2,621	11,754
South.....	310	10,360	24,852	8,919	18,193	18,291	59,273	1,672	12,458	46,716
Maryland.....	30	703	1,601	611	1,110	1,070	2,679	(4)	644	2,814
Virginia.....	18	2,208	5,137	2,044	3,982	4,396	16,835	545	1,955	5,075
North Carolina.....	17	490	1,264	415	886	922	6,000	(4)	534	2,072
South Carolina.....	7	213	532	155	261	242	867	(4)	(D)	(D)
Georgia.....	30	2,387	5,849	2,003	4,070	4,080	11,837	(4)	2,796	10,601
Florida.....	24	256	564	223	439	414	867	(4)	302	864
Kentucky.....	15	542	1,323	426	893	911	1,754	(4)	566	2,805
Tennessee.....	26	930	2,520	784	1,573	1,733	5,232	(D)	1,175	7,740
Alabama.....	17	355	670	313	588	560	1,499	(4)	408	1,040
Arkansas.....	7	106	268	72	144	142	278	(4)	282	672
Louisiana.....	12	355	881	306	714	670	1,629	(4)	549	2,104
Oklahoma.....	14	257	574	215	450	433	847	(4)	329	1,347
Texas.....	77	1,469	3,520	1,271	2,941	2,579	8,726	(4)	(D)	(D)
West.....	230	6,923	22,358	5,380	10,324	14,719	43,547	4,140	7,865	40,931
Colorado.....	16	477	1,147	331	662	790	1,665	(4)	472	1,784
Utah.....	18	526	1,576	419	862	977	2,627	(4)	724	4,116
Washington.....	22	789	2,305	616	1,049	1,467	4,776	(4)	(D)	(D)
California.....	149	4,945	16,869	3,860	7,470	11,159	33,605	(D)	5,260	28,687

See footnotes at end of table.

## FOOD AND KINDRED PRODUCTS

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Table. 2.—GENERAL STATISTICS FOR INDUSTRY GROUPS BY REGIONS AND STATES: 1954 AND 1947—Continued

(For explanation of column captions see Introduction)

Industry group, region, and State	1954							1947		
	Number of establish- ments	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
		Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
Beverages (S.I.C. Group 208), total.....	5,384	202,795	867,680	118,755	231,890	460,438	2,237,428	176,602	202,574	1,849,145
New England.....	374	7,805	29,564	4,318	8,277	13,717	60,804	3,115	8,730	50,795
Maine.....	45	424	1,257	236	486	565	2,690	(4)	483	2,066
New Hampshire.....	25	400	1,193	239	459	522	2,230	(4)	364	1,308
Vermont.....	14	123	320	62	115	158	579	(4)	142	598
Massachusetts.....	167	4,158	16,074	2,219	4,246	6,831	33,334	1,261	5,117	31,292
Rhode Island.....	39	1,270	5,447	820	1,585	3,377	11,913	899	1,226	7,019
Connecticut.....	84	1,429	5,271	739	1,383	2,263	10,056	585	1,398	8,512
Middle Atlantic.....	919	46,452	226,314	26,339	50,093	117,569	532,243	26,076	46,637	382,755
New York.....	386	20,836	106,812	11,253	20,700	52,714	240,547	8,997	20,409	158,338
New Jersey.....	156	11,682	59,873	6,536	12,432	31,626	145,657	8,061	9,536	78,097
Pennsylvania.....	377	13,933	59,628	8,549	16,960	33,228	146,038	9,017	16,692	146,320
East North Central.....	998	50,716	230,095	32,283	62,135	131,482	618,709	43,466	54,031	553,145
Ohio.....	234	10,385	45,471	5,822	11,734	22,678	117,219	7,450	11,553	89,162
Indiana.....	149	7,542	29,419	5,290	9,149	18,201	81,811	4,432	9,108	100,617
Illinois.....	257	11,109	51,017	6,996	13,821	28,685	140,119	9,390	14,354	155,480
Michigan.....	144	7,572	35,654	4,748	9,478	19,949	82,343	7,169	6,868	52,661
Wisconsin.....	214	14,108	68,532	9,425	17,950	41,967	197,216	15,023	12,148	155,225
West North Central.....	518	18,415	84,743	11,925	24,350	53,789	220,350	18,769	18,145	161,775
Minnesota.....	111	4,707	22,055	3,116	6,418	13,892	57,393	9,121	4,642	42,176
Iowa.....	91	1,483	5,175	655	1,527	2,161	8,986	596	1,732	9,658
Missouri.....	141	9,258	46,542	6,418	12,916	32,169	129,224	6,545	8,959	91,790
North Dakota.....	19	220	719	127	235	316	1,189	(4)	(D)	(D)
South Dakota.....	23	269	921	149	294	422	1,618	(4)	(D)	(D)
Nebraska.....	54	1,391	5,660	877	1,813	3,278	14,198	1,444	1,486	11,905
Kansas.....	79	1,084	3,668	580	1,144	1,548	7,740	892	310	3,828
South Atlantic.....	826	23,768	78,809	11,215	23,079	30,397	166,561	14,624	22,279	150,788
Delaware.....	14	241	942	126	261	342	2,019	(D)	324	2,381
Maryland.....	69	5,574	23,047	3,243	6,316	12,537	52,615	3,573	6,602	63,098
District of Columbia..	9	691	2,684	261	560	784	3,889	(D)	822	4,954
Virginia.....	114	3,268	10,421	1,411	3,176	3,257	20,002	2,802	2,555	13,753
West Virginia.....	82	1,247	3,890	611	1,179	1,407	6,817	1,124	1,286	6,874
North Carolina.....	146	3,883	11,758	1,514	3,207	3,416	25,247	2,171	3,472	20,057
South Carolina.....	88	1,967	5,555	859	1,812	1,709	12,316	(4)	1,536	7,702
Georgia.....	150	3,348	9,382	1,465	3,010	3,007	21,111	1,072	2,922	16,750
Florida.....	154	3,545	11,128	1,723	3,553	3,935	22,542	2,154	2,760	15,219
East South Central.....	446	18,793	67,772	11,954	23,810	39,663	219,395	8,137	19,545	258,169
Kentucky.....	143	11,921	48,702	8,847	17,762	33,459	181,115	5,679	13,218	225,477
Tennessee.....	101	2,842	8,811	1,225	2,470	2,871	17,518	889	2,657	15,137
Alabama.....	108	2,259	5,751	1,028	1,887	1,793	11,445	1,010	2,131	10,123
Mississippi.....	94	1,771	4,507	851	1,689	1,539	9,314	559	1,539	7,432
West South Central.....	568	15,612	52,385	7,807	15,637	21,682	126,105	7,669	13,244	82,246
Arkansas.....	89	1,438	3,933	643	1,296	1,265	8,347	(4)	1,136	5,786
Louisiana.....	83	4,686	17,080	2,555	5,095	8,564	44,729	2,891	3,644	25,606
Oklahoma.....	102	1,409	4,125	713	1,466	1,481	9,060	(4)	1,219	6,533
Texas.....	294	8,078	27,246	3,894	7,778	10,370	63,968	3,925	7,245	44,321
Mountain.....	237	3,895	15,245	2,266	4,278	7,356	41,493	3,573	3,425	24,318
Montana.....	34	467	1,832	308	593	1,081	5,423	(4)	500	3,411
Idaho.....	26	323	1,148	172	260	399	1,999	(4)	276	1,863
Wyoming.....	16	128	455	81	139	220	949	(4)	225	1,397
Colorado.....	61	1,444	6,135	868	1,733	3,264	17,512	2,033	1,114	9,461
New Mexico.....	32	425	1,392	229	404	479	2,827	(4)	332	1,474
Arizona.....	32	568	2,358	302	571	1,015	8,946	519	437	2,772
Utah.....	26	405	1,526	230	482	721	3,028	(4)	437	3,248
Nevada.....	10	132	398	72	93	174	805	(4)	104	692
Pacific.....	498	17,335	82,750	10,645	20,229	44,778	251,763	51,170	16,538	185,154
Washington.....	71	2,546	12,558	1,594	2,905	6,810	34,473	3,202	2,159	20,624
Oregon.....	52	661	2,923	360	582	1,231	5,982	(4)	739	7,361
California.....	375	14,127	67,269	8,689	16,741	36,736	211,307	47,531	13,640	157,169
Miscellaneous foods (S.I.C. Group 209), total <sup>2</sup> .....	5,589	138,735	507,745	98,623	196,845	303,029	1,632,667	85,487	151,790	1,199,122
New England.....	303	5,726	18,666	4,277	8,457	11,396	42,315	2,843	5,137	31,084
Vermont.....	12	136	459	87	176	210	1,295	(4)	298	1,701
Massachusetts.....	178	3,400	11,629	2,432	4,678	6,582	25,159	1,973	3,213	19,854
Rhode Island.....	29	422	1,349	310	656	900	2,179	(4)	500	2,691
Connecticut.....	39	579	2,065	447	777	1,286	5,888	(4)	791	4,706
Middle Atlantic.....	994	27,809	111,283	20,005	41,459	68,564	405,417	14,041	27,779	286,735
New York.....	536	13,844	56,986	9,304	19,761	32,155	174,553	6,931	14,625	152,677
New Jersey.....	153	7,762	33,884	5,862	11,857	23,136	187,955	4,403	7,304	101,486
Pennsylvania.....	305	6,201	20,412	4,838	9,840	13,272	42,907	2,707	5,850	32,572

<sup>1</sup> See footnotes at end of table.



## MANUFACTURES--INDUSTRY STATISTICS

Table 2.—GENERAL STATISTICS FOR INDUSTRY GROUPS BY REGIONS AND STATES: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Industry group, region, and State	Number of establish- ments	1954						1947	
		All employees		Production workers			Value added by manu- facture	Capital expendi- tures, new	All employees, number
		Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	(\$1,000)	(\$1,000)	Value added by manu- facture (\$1,000)
Miscellaneous foods (S.I.C. Group 209)—Continued									
East North Central.....	941	34,814	137,944	25,916	50,277	86,970	403,888	25,665	35,893
Ohio.....	248	6,341	24,066	4,558	9,087	14,350	54,616	4,326	7,553
Illinois.....	358	20,190	83,865	15,239	29,537	53,564	263,256	17,333	19,923
Michigan.....	169	3,072	10,549	2,217	3,914	5,804	19,035	978	2,680
West North Central.....	427	15,983	57,167	12,286	24,793	37,575	150,659	9,958	20,036
Minnesota.....	51	1,782	5,763	1,397	2,804	3,723	15,181	800	(D)
Missouri.....	179	6,411	22,200	4,899	9,336	14,358	64,690	4,108	7,426
South Atlantic.....	811	15,972	49,351	10,153	20,108	24,320	201,879	10,041	18,526
Maryland.....	84	2,697	9,783	1,948	3,985	5,312	39,942	898	1,720
District of Columbia..	17	654	2,533	438	894	1,487	7,001	(*)	606
West Virginia.....	27	176	440	112	226	235	745	(*)	(D)
South Carolina.....	67	781	1,783	385	654	642	4,327	(*)	1,679
Georgia.....	174	4,238	12,566	2,624	5,128	5,988	84,343	1,475	5,039
Florida.....	186	2,094	5,752	1,397	2,881	3,221	27,466	4,438	3,222
East South Central.....	385	7,063	22,055	4,658	9,466	11,487	70,758	3,892	8,440
Kentucky.....	69	1,539	5,393	1,119	2,284	3,207	25,191	578	1,535
Tennessee.....	114	3,074	10,482	2,004	4,161	5,313	26,234	2,621	3,883
West South Central.....	863	14,026	44,197	9,776	20,264	26,165	157,740	7,974	17,071
Oklahoma.....	116	1,169	3,361	864	1,797	2,050	8,504	(D)	2,096
Texas.....	459	8,721	28,879	6,186	12,936	17,832	110,109	6,145	10,165
Mountain.....	180	2,859	8,599	2,142	3,915	5,201	18,431	1,488	3,314
New Mexico.....	24	222	541	137	282	297	1,206	(*)	284
Arizona.....	39	500	1,710	357	667	973	3,732	(*)	938
Pacific.....	685	14,478	58,478	9,407	18,103	31,348	181,578	9,582	15,594
California.....	590	12,433	51,087	8,007	15,417	27,321	163,913	8,772	13,403

NOTE: Detailed figures may not add to the totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>The 1954 Census coverage of establishments in Major Industry Group 20, "Food and Kindred Products," is not comparable with the corresponding group total published for 1947. In 1947, the Standard Industrial Classification of Sub-group 202, "Dairy Products," differed from that used in 1954 chiefly in that the Industries 2026, Fluid Milk, and 2027, Fluid Milk and Other Products, were not included within the scope of manufacturing. The inclusion of these industries in 1947 would have raised the 1947 employment figure of 1,461,364 for the Food group shown in Table 2A by an estimated 10 to 15 percent and the employment figure of 112,264 for the Dairy Products Sub-group shown in Table 2B by an estimated 150 to 200 percent. No estimate has been made for value added by manufacture or for individual States. The total employment and value added by manufacture figures for 1954 and 1947 excluding Industry 2026, Fluid Milk, and Industry 2027, Fluid Milk and Other Products, for Group 20, Food and Kindred Products are shown in Table 2A and Sub-group 202, Dairy Products are shown in Table 2B.

<sup>2</sup>Each producing State not shown separately has been withheld either (a) to avoid disclosing figures for individual companies; or (b) because the State had less than 100 employees in the industry group. Such State figures are included, however, in the appropriate regional and United States totals.

<sup>3</sup>In 1947 separate manufacturers reports were submitted covering the manufacture of prepared meats at manufacturers' wholesale branches. These operations were classified as manufacturing and included in the statistics for Industry 2013. In 1954 manufacturers' wholesale branches submitted a single report covering the entire establishment and were classified in the Wholesale Trade Industries. The manufacturing activities at these establishments had 4,904 production workers in 1954 and accounted for \$47,669 thousand of value added by manufacture.

<sup>4</sup>Less than \$500 thousand.

<sup>5</sup>This subgroup includes Industry 2036, Packaged seafood. In 1947 these establishments were classified in Wholesale Trade (SIC 5046) and are not included in the 1947 statistics.

<sup>6</sup>Data for 1947 include retail multi-unit enterprises with baking on the premises at each location. Such establishments were classified in Retail Trade (SIC 5462) for 1954.

## FOOD AND KINDRED PRODUCTS

20-9

Table 2A.—SELECTED STATISTICS FOR THE FOOD AND KINDRED PRODUCTS INDUSTRIES, MAJOR GROUP 20, EXCLUDING FLUID MILK, INDUSTRY 2026 AND FLUID MILK AND OTHER PRODUCTS, INDUSTRY 2027

Division and State	1954		1947	
	All employees, number	Value added by manufacture (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
Food and kindred products, Major Group 20 excluding fluid milk industries, 2026 and 2027, total.	1,455,807	11,924,680	1,461,364	19,115,975
New England.....	67,812	442,002	69,922	365,990
Maine.....	9,989	56,398	8,681	42,492
New Hampshire.....	1,898	12,535	1,868	9,106
Vermont.....	1,909	18,857	2,162	14,692
Massachusetts.....	40,390	257,267	44,411	228,104
Rhode Island.....	4,922	32,590	4,591	23,038
Connecticut.....	8,707	64,355	8,209	48,558
Middle Atlantic.....	286,265	2,539,850	286,954	1,923,836
New York.....	135,796	1,228,265	135,876	981,071
New Jersey.....	54,228	602,786	47,195	354,821
Pennsylvania.....	96,243	708,799	103,883	587,944
East North Central.....	248,878	3,088,201	359,199	2,409,980
Ohio.....	68,053	580,111	69,241	425,542
Indiana.....	41,490	341,598	45,435	294,383
Illinois.....	132,269	1,244,154	139,765	1,014,423
Michigan.....	48,882	440,749	48,123	286,931
Wisconsin.....	58,187	481,590	56,635	388,701
West North Central.....	198,042	1,538,614	213,387	1,235,564
Minnesota.....	44,711	366,041	48,536	288,387
Iowa.....	48,271	339,762	47,658	235,562
Missouri.....	47,713	416,669	51,160	333,116
North Dakota.....	3,033	18,717	4,152	25,044
South Dakota.....	7,185	53,260	7,002	36,170
Nebraska.....	25,996	185,927	25,702	158,147
Kansas.....	21,137	158,240	29,177	159,138
South Atlantic.....	163,511	1,077,992	144,205	705,091
Delaware.....	5,497	33,617	5,140	22,591
Maryland.....	34,211	223,144	32,951	189,486
District of Columbia.....	4,656	34,051	5,185	26,800
Virginia.....	25,703	150,471	21,837	89,210
West Virginia.....	6,124	36,797	6,426	31,626
North Carolina.....	20,977	126,655	17,673	82,161
South Carolina.....	7,978	44,388	7,877	34,489
Georgia.....	31,717	247,504	27,261	135,583
Florida.....	26,650	181,366	19,855	93,145
East South Central.....	70,925	578,716	68,659	513,324
Kentucky.....	23,688	279,886	24,744	289,333
Tennessee.....	23,956	166,729	23,455	132,762
Alabama.....	13,745	79,404	12,290	57,199
Mississippi.....	9,537	52,698	8,170	34,030
West South Central.....	112,116	797,382	111,854	599,187
Arkansas.....	11,778	67,202	9,722	41,041
Louisiana.....	28,111	196,146	28,754	139,137
Oklahoma.....	13,281	82,000	15,203	79,171
Texas.....	58,945	452,035	58,175	339,838
Mountain.....	38,637	279,474	41,173	247,018
Montana.....	3,514	27,584	4,165	26,620
Idaho.....	6,144	43,786	6,088	43,942
Wyoming.....	1,084	7,691	1,480	8,445
Colorado.....	15,028	107,587	15,630	94,813
New Mexico.....	1,973	12,308	1,706	7,898
Arizona.....	3,432	30,338	3,433	19,043
Utah.....	6,992	46,314	8,036	42,948
Nevada.....	473	3,867	635	3,309
Pacific.....	169,625	1,582,454	166,011	1,115,985
Washington.....	23,310	190,214	26,810	152,349
Oregon.....	16,648	122,872	17,865	108,355
California.....	129,666	1,269,368	121,336	855,282

NOTE: Detailed figures may not add to the totals because of independent rounding.

<sup>1</sup>In 1954 establishments shipping fluid milk and other dairy products were classified based on the primary value of products shipped. This differed from the 1947 classifications which, in accordance with the Standard Industrial Classification Manual, excluded from manufacturing establishments shipping any fluid milk. The data for 1947 shown in this table have been revised to include employment and value added by manufacture for these establishments that shipped some fluid milk in 1947, but were primarily shipping other dairy products. These revisions have also been made to the chapters for the Dairy Products Industries, but not to the State chapters.

## MANUFACTURES--INDUSTRY STATISTICS

Table 2B.—SELECTED STATISTICS FOR THE DAIRY PRODUCTS INDUSTRIES, GROUP 202, EXCLUDING FLUID MILK, INDUSTRY 2026 AND FLUID MILK AND OTHER PRODUCTS, INDUSTRY 2027

Division and State	1954		1947	
	All employees, number	Value added by manufacture (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
Dairy products, Group 202, excluding Fluid Milk Industries, 2026 and 2027, total.....	92,034	781,200	112,264	1,688,171
New England.....	23,500	230,000	23,500	227,000
Maine.....	420	3,600	347	2,426
New Hampshire.....	90	1,061	78	569
Vermont.....	2,500	22,000	2,500	23,000
Massachusetts.....	22,000	215,000	22,000	214,000
Rhode Island.....	316	2,870	344	2,766
Connecticut.....	558	5,451	503	4,178
Middle Atlantic.....	215,000	2146,000	214,000	2102,000
New York.....	7,628	75,820	7,252	60,892
New Jersey.....	1,486	14,075	1,112	8,108
Pennsylvania.....	26,000	256,000	25,500	233,000
East North Central.....	31,230	266,650	38,049	248,260
Ohio.....	25,000	245,000	28,000	249,000
Indiana.....	2,500	23,000	24,000	223,000
Illinois.....	26,500	256,000	28,000	249,000
Michigan.....	3,876	43,268	4,563	29,854
Wisconsin.....	13,200	98,621	14,069	96,815
West North Central.....	17,889	128,089	23,504	119,315
Minnesota.....	25,500	239,000	28,000	238,000
Iowa.....	23,500	226,000	24,000	224,000
Missouri.....	3,790	29,901	3,802	20,190
North Dakota.....	21,000	26,000	21,500	28,000
South Dakota.....	21,000	25,000	21,000	24,000
Nebraska.....	1,511	11,458	1,959	9,054
Kansas.....	1,612	10,711	3,124	15,989
South Atlantic.....	25,500	254,000	28,500	247,000
Maryland.....	21,000	29,000	21,000	29,000
District of Columbia.....	2,500	24,000	21,000	24,000
Virginia.....	936	9,271	1,419	8,023
West Virginia.....	385	4,737	611	5,085
North Carolina.....	631	6,709	2,116	10,416
South Carolina.....	352	2,932	434	2,443
Georgia.....	21,000	26,000	21,000	25,000
Florida.....	21,000	29,000	2,500	23,000
East South Central.....	25,500	250,000	26,500	238,000
Kentucky.....	1,681	17,351	1,740	13,316
Tennessee.....	2,054	17,943	2,500	13,553
Alabama.....	676	6,405	1,069	5,159
Mississippi.....	967	7,978	984	5,547
West South Central.....	24,000	228,000	26,000	228,000
Arkansas.....	647	5,353	734	3,755
Louisiana.....	2,500	24,000	2,500	22,000
Oklahoma.....	738	4,896	1,865	8,361
Texas.....	22,000	213,000	22,500	213,000
Mountain.....	3,166	24,709	4,215	24,600
Montana.....	2,500	22,000	2,500	23,000
Idaho.....	1,264	9,673	1,363	8,309
Wyoming.....	85	201	137	808
Colorado.....	462	4,195	819	4,872
Arizona.....	234	2,034	233	1,579
Utah.....	579	5,304	839	5,520
Pacific.....	6,285	54,767	8,449	54,537
Washington.....	727	7,177	1,681	9,882
Oregon.....	21,000	27,000	21,500	29,000
California.....	24,500	240,000	25,500	236,000

<sup>1</sup>In 1954 establishments shipping fluid milk and other dairy products were classified based on the primary value of products shipped. This differed from the 1947 classifications which, in accordance with the Standard Industrial Classification Manual, excluded from manufacturing establishments shipping any fluid milk. The data for 1947 shown in the table have been revised to include employment and value added by manufacture for those establishments that shipped some fluid milk in 1947, but were primarily shipping other dairy products. These revisions have also been made to the chapter for the Dairy Products Industries, but not to the State chapters.

<sup>2</sup>Rounded to avoid disclosure of data for individual companies. Totals do not equal the sum of the detail due to rounding.



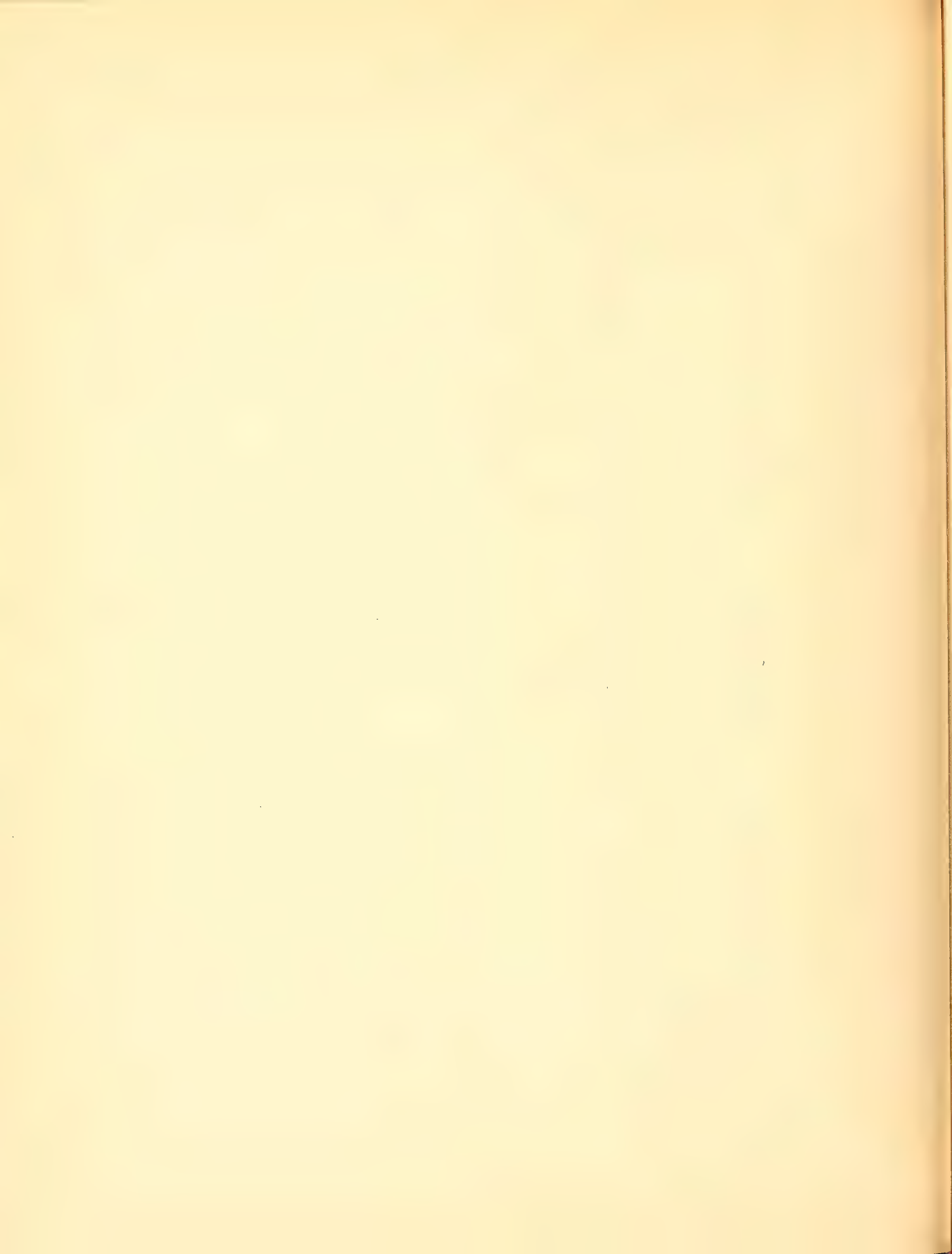
Table 3.—DETAILED STATISTICS FOR OPERATING MANUFACTURING ESTABLISHMENTS IN THE UNITED STATES

(For explanation of line captions see Introduction)

Item	Major industry group 20	Item	Major industry group 20
Number of establishments, total.....	42,374	Cost and quantity of purchased fuel and electricity—Con.	
With 1-19 employees.....	28,725	Electric energy:	
With 20-99 employees.....	10,167	Purchased:	
With 100 employees and over.....	3,482	Quantity.....million kwh..	12,005
All employees:		Cost.....\$1,000..	168,645
Number (average for year).....	1,647,204	Generated.....million kwh..	2,064
Payroll.....\$1,000..	6,201,500	Sold:	
Production workers:		Quantity.....do....	97
Number (average for year).....	1,138,239	Value.....\$1,000..	891
Man-hours.....1,000..	2,316,661	Manufacturers' inventories:	
Wages.....\$1,000..	3,759,071	Beginning of year, total.....do....	4,692,060
Value added by manufacture.....do....	13,400,218	Finished products.....do....	12,710,314
Value added by resales.....do....	356,788	Work-in-process.....do....	121,318
Number of employees for selected months:		Materials, supplies, fuel, etc.....do....	1,770,396
March.....	1,554,420	End of year, total.....do....	4,670,108
May.....	1,591,702	Finished products.....do....	12,722,606
August.....	1,797,240	Work-in-process.....do....	121,452
November.....	1,666,509	Materials, supplies, fuel, etc.....do....	1,736,020
Cost and quantity of purchased fuel and electricity:		Expenditures for plant and equipment:	
Fuels consumed, total cost.....\$1,000..	250,430	Capital expenditures, new.....do....	789,050
Bituminous coal and anthracite:		New structures and additions to plant.....do....	229,601
Quantity.....1,000 short tons..	11,179	New machinery and equipment.....do....	559,449
Value.....\$1,000..	86,382	Expenditures for used plant and equipment.....do....	48,668
Coke:		Horsepower rating of power equipment at end of 1954:	
Quantity.....1,000 short tons..	99	Total horsepower of prime movers and electric	
Value.....\$1,000..	1,866	motors driven by purchased energy.....1,000 hp..	7,503
Fuel oil:		Engines, etc., driving electric generators...do....	1,014
Quantity.....1,000 barrels..	20,458	Engines, etc., not driving electric	
Value.....\$1,000..	67,640	generators.....do....	707
Gas:		Electric motors driven by purchased energy....do....	5,782
Quantity.....million cubic feet..	262,852	Electric motors driven by energy generated at the	
Value.....\$1,000..	69,542	establishment.....do....	890
Other fuels:			
Value.....do....	25,000		

Note: Detailed figures may not add to totals because of independent rounding.

<sup>1</sup>Establishments classified in industries 2011, Meat packing plants, and 2013, Prepared meats, were not requested to report separate data for finished products inventory and work-in-process inventory. The total for these inventories has been included with finished products.



## Meat Products

This report shows 1954 Census of Manufactures statistics for establishments classified into each of the following industries:

<u>Code</u>	<u>Title</u>
2011—Meat Packing Plants	
2013—Prepared Meats	
2015—Poultry Dressing Plants	

### Meat Packing Plants (2011) and Prepared Meats (2013)

These two industries are similar in many respects and for some purposes should be viewed as one industry. Prepared meats (smoked meats, sausage, canned meats, etc.) are produced by each industry; the distinguishing characteristic of Industry 2011 is the slaughtering of livestock, and of Industry 2013 the use of purchased meat material. Nearly all of the fresh meat used as a raw material by plants in Industry 2013 is supplied by plants in Industry 2011; in addition, a considerable volume of fresh meat material is sold or transferred between plants in Industry 2011 for use in further processing.

Because of these interplant sales and transfers, aggregates of the value of shipments and cost of materials for Industry 2011 separately, or for Industries 2011 and 2013 combined, include a substantial amount of duplication.

The 1954 Census of Manufactures included plants accounting for about 90 per cent of the total volume of commercial livestock slaughter, or 38,400 million pounds live weight out of a total of 42,700 million as reported by the U. S. Department of Agriculture. The difference is accounted for principally by establishments in which the major activity is wholesale or retail trade rather than manufacturing. Such establishments were included in the Census of Business for 1954, and no data were secured on the slaughtering activities conducted as a minor activity in them. Certain other types of slaughtering establishments were also excluded from Census of Manufactures coverage, such as those with no paid employees. A sample check of Census records against Department of Agriculture records for four States (Montana, West Virginia, Nebraska, and New York) indicated that most of the establishments not included in the Census of Manufactures were meat wholesalers or jobbers, but grocery stores, retail meat markets, and poultry distributors were also among the residual group.

The chart which appears at the end of the text illustrates the difference in coverage between the Census of Manufactures and the "total commercial slaughter" figures compiled by the U. S. Department of Agriculture. The right-hand section of the chart also indicates the disposition of meats and other products originating in slaughtering plants, and the inter-relationship of Industries 2011 and 2013. This chart is intended to illustrate Census of Manufactures coverage of livestock slaughter and the movement of products in broad outline; some interchange of meats which actually takes place is relatively unimportant and is not shown in the chart, such as the sale of meats by non-manufacturing establishments (included in the Census of Business) to manufacturing establishments included in the Census of Manufactures. The duplication shown graphically in the chart was measured statistically in the 1954 Census by the collection of data from each plant on the volume of purchases of individual products. These data are presented in Table 6A of this report, in which shipments of products are shown both on a "gross" basis (including duplication arising within the industries) and a "net"

basis, obtained by subtracting total purchases of each product from the gross shipments of the product.

Companies accounting for a large proportion of the output of meats and meat products (except poultry) reported shipments, production, inventories, and expenditures for plant and equipment, for the fiscal year ending November 1, 1954, rather than for the calendar year. However, comparison of total commercial slaughter figures for the two periods, as published by the Department of Agriculture, indicates that the number of animals slaughtered during the fiscal year was practically identical with calendar year production, except for a 2 percent difference in hog slaughter. The Census statistics may thus be taken as representative of the calendar year.

Industries 2011 and 2013 accounted in 1954 for over 99 per cent of the meat and meat products produced in all manufacturing industries; this coverage ratio was also 99 per cent in 1947.

2011—Meat Packing Plants (Full Standard Industrial Classification Title: Meat Packing, Wholesale)

Industry 2011, Meat Packing Plants, comprises establishments primarily engaged in the slaughtering (for their own account, or on a contract basis for the trade) of cattle, hogs, sheep, lambs, calves, and other animals, except small game, for meat to be sold fresh or to be used on the same premises in canning and curing, and in making sausage, lard, and other products. Important products of this industry include fresh and frozen meat (beef, veal, mutton, lamb, and pork), canned beef, pork and other meat goods, sausage and lard. Establishments primarily engaged in manufacturing sausages and meat specialties are classified in Industry 2011 if the raw materials are primarily obtained from animals slaughtered in the establishment; in Industry 2013, Prepared Meats, if the raw materials are primarily purchased meats. Establishments primarily engaged in killing, dressing and packing poultry, rabbits and other small game are included in Industry 2015, Poultry Dressing; canned poultry in Industry 2033, Canning and Preserving, and dog and cat food in Industry 2042, Prepared Animal Feeds. For a detailed list of the primary products of Industry 2011, refer to Table 6A, product codes 2011111 to 2011798 and, in establishments where animals are slaughtered, codes 2013111 to 2013431.

The value of shipments of Industry 2011 in 1954 totaled \$9,906 million. This included shipments of fresh and prepared meats (primary products) valued at \$9,642 million, shipments of other products (secondary products) valued at \$252 million, and miscellaneous receipts of \$12 million.

Industry 2011 shipments of primary products (fresh and prepared meats), in 1954 represented 98 percent of its total product shipments (primary and secondary). This primary product specialization ratio is available for 1947 only for Industries 2011 and 2013 combined; on this basis, the 1947 ratio was 96 percent. Secondary products shipped by this industry in 1954 consisted mainly of grease, tallow, feed, and fertilizer by-products, \$142 million; and dog and cat food, \$56 million. Although the primary product specialization ratio for the industry is quite high, meat packing plants do not tend to specialize in any one species of livestock, but usually produce a variety of fresh and prepared meats. Plants in the industry fall into three main categories by type of operation: (1) plants engaged solely in slaughtering animals and producing fresh meats; (2) plants slaughtering animals and producing cured or processed meats in addition to the sale of fresh



meats; or (3) custom slaughterers, slaughtering animals on a contract basis for the trade.

**2013—Prepared Meats** (Includes Standard Industrial Classification Industry 2013, Sausages and Other Prepared Meat Products and Industry 2014, Sausage Casings)

Industry 2013, Prepared Meats, comprises establishments primarily engaged in manufacturing sausages, prepared meats, and meat specialties, and which are not primarily engaged in slaughtering livestock. Sausage or meat kitchens operated by packing houses as separate establishments are also included in this industry and establishments primarily engaged in the manufacture of sausage casings. Establishments primarily engaged in killing, dressing, and packing poultry, rabbits and other small game are classified in Industry 2015, Poultry Dressing; and canning poultry in Industry 2033, Canning and Preserving, Except Fish. For a detailed list of products of Industry 2013 refer to Table 6A, product codes 2013111 to 2013431 and 2014011 to 2014071. Products with the first 4 digits 2013 are considered primary to both Industries 2013, Prepared Meats, and 2011, Meat Packing Plants.

The value of shipments of Industry 2013 in 1954 totaled \$1,415 million. This included shipments of primary products (prepared meats and sausage casings), valued at \$1,176 million, shipments of secondary products valued at \$235 million, and miscellaneous receipts (mainly contract work on materials owned by others) of \$3 million.

Industry 2013 shipments of prepared meats and sausage casings (primary products) in 1954 represented 83 percent of its total product shipments (primary and secondary). This specialization ratio was not computed for Industry 2013 separately for 1947; for Industries 2011 and 2013 combined, it was 98 percent for 1954 and 96 percent for 1947. Secondary products shipped by Industry 2013 in 1954 consisted mainly of fresh meats, \$205 million, and other meat packing plant products, \$24 million.

A considerable volume of prepared meats are produced in manufacturers' wholesale branches that are primarily engaged in the wholesale distribution of meat, and therefore classified as wholesale establishments in the 1954 Censuses. Production of prepared meats in wholesale branches is shown separately in Table 6A. The wages paid and the number of production workers engaged in the production of prepared meats in these establishments is included in Table 2A of this report.

The prepared meats departments of wholesale branches were included in the 1947 Census of Manufactures as manufacturing establishments. To provide a basis of comparison with 1947 and previous years, statistics for 1954 are shown in Table 1 which include and exclude the manufacturing activities in these establishments. The former are comparable to the 1947 statistics and the latter are in conformity with the present definition of Industry 2013.

Prepared meats manufactured in retail and independent wholesale establishments are not included in the Census of Manufactures statistics. The volume of prepared meats manufactured in such establishments was not measured in the 1954 Census.

**2015—Poultry Dressing Plants** (Full Standard Industrial Classification Title: Poultry and Small Game Dressing and Packing, Wholesale)

This industry comprises establishments primarily engaged in killing, dressing, and packing poultry, rabbits, and other small game for their own account or on a contract basis. This industry also includes separate plants cutting-up and quick-freezing poultry or small game for the trade or for other plants of the company.

The Standard Industrial Classification Manual, dated November 1945, has been revised to transfer from this industry plants primarily engaged in canning chicken soup, poultry and poultry mixtures. These plants are now included in Industry 2033, Canning and Preserving, Except Fish. The 1947 data for these plants are consistent with the revised Standard Industrial Classification. For a detailed list of the primary products of this industry, refer to Table 6A, product codes 2015111 to 2015498.

The value of shipments of Industry 2015 in 1954 totaled \$1,258 million. This included shipments of primary products (dressed poultry and small game), valued at \$1,125 million, shipments of secondary products valued at \$52 million, and miscellaneous receipts, mainly shell egg sales of \$81 million.

Industry 2015 shipments of dressed poultry and small game (primary products) in 1954 represented 96 percent of its total product shipments (primary and secondary). In 1947, this specialization ratio was 88 percent. Secondary products shipped by this industry in 1954 consisted mainly of creamery butter (\$12 million), and dried, frozen, and liquid eggs, (\$18 million).

Industry 2015 shipments of dressed poultry and small game, in 1954 represented 97 percent of these products valued at \$1,166 million shipped by all manufacturing industries. The 1947 coverage ratio was 88 percent. Other industries shipping dressed poultry and small game included Industry 2021, Creamery Butter, and Industry 2099, Miscellaneous Food Preparations, N. E. C.

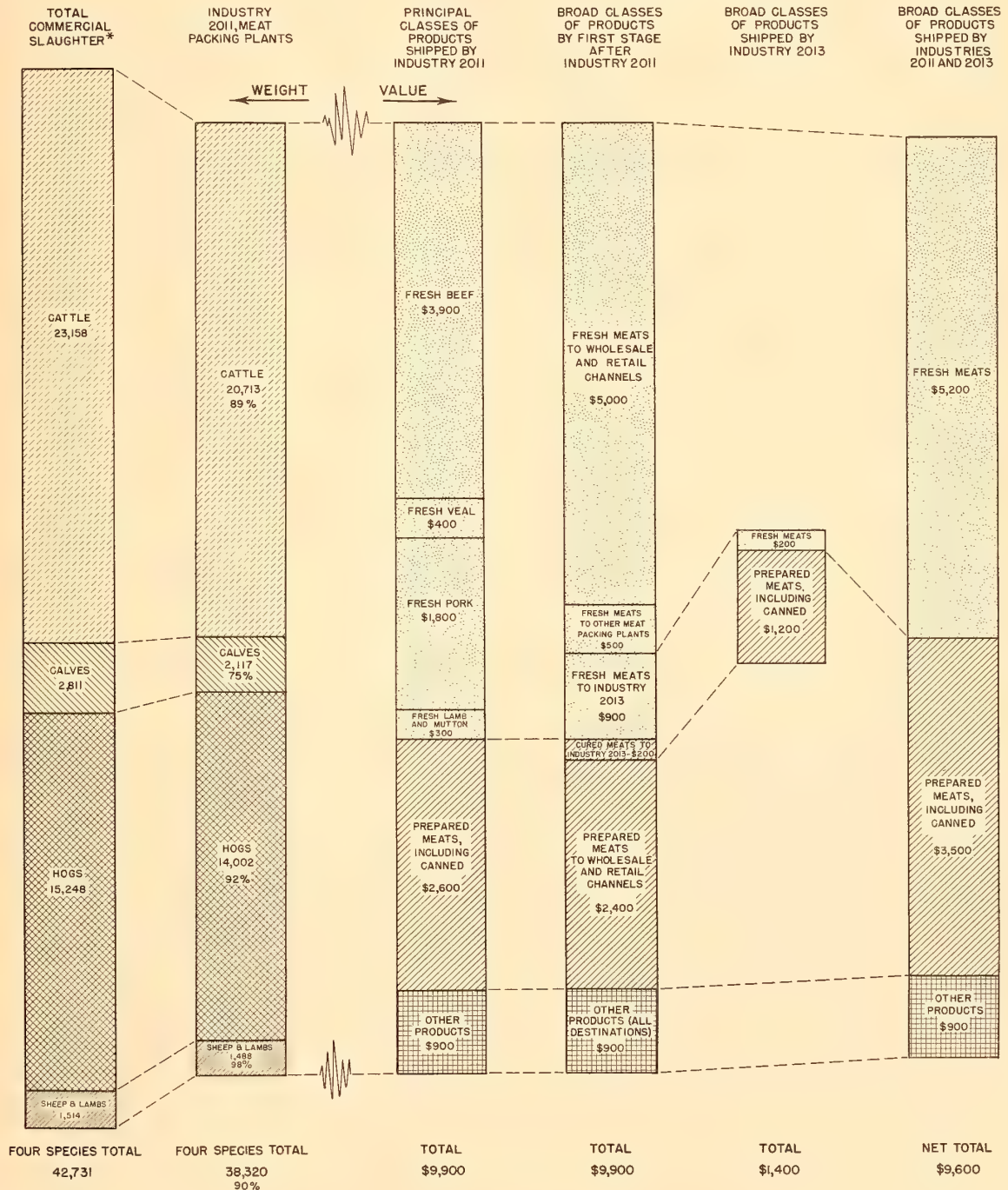
Statistics for poultry and small game killed and dressed at farms, hatcheries, frozen food lockers and wholesale and retail establishments are not included in this report. Comparison with estimates of the United States Department of Agriculture indicates that plants included in the Census of Manufactures accounted for 71 percent of the total commercial broiler production in 1954, including production on farms.

The general statistics (employment, payrolls, value of shipments, cost of materials, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products, and, for that matter, their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (Tables 1-4) with product statistics (Table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in Table 5A which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry made as secondary products by establishments classified in other industries.

# COVERAGE OF LIVESTOCK SLAUGHTER, 1954 CENSUS OF MANUFACTURES, AND MOVEMENT OF PRODUCTS SHIPPED BY MEAT PACKING PLANTS (INDUSTRY 2011)

LIVE WEIGHT OF ANIMALS SLAUGHTERED  
(MILLION POUNDS)

VALUE OF PRODUCTS SHIPPED  
(MILLION DOLLARS)



\*SOURCE: U. S. Department of Agriculture

Note: Detailed figures may not add to the totals because of independent rounding.

BUREAU OF THE CENSUS



## MANUFACTURES--INDUSTRY STATISTICS

Table 1.—GENERAL STATISTICS FOR THE UNITED STATES: 1954 AND EARLIER YEARS

(For explanation of column captions see Introduction)

Industry and census year	Establishments, number	All employees		Production workers		Value added by manufacture <sup>2</sup>	Cost of materials, etc. <sup>3</sup>	Value of shipments <sup>4</sup>
		Number <sup>1</sup>	Payroll (\$1,000)	Number <sup>1</sup>	Wages (\$1,000)			
Meat packing plants <sup>5</sup> (S.I.C. 2011):								
1954.....	2,367	220,194	942,970	167,815	687,878	1,394,486	8,511,201	9,905,687
1953 <sup>6</sup> .....	(NA)	217,196	900,648	169,023	671,569	1,452,272		
1952 <sup>6</sup> .....	(NA)	217,410	868,091	170,323	647,682	1,389,836		
1951 <sup>6</sup> .....	(NA)	213,980	807,325	167,239	593,125	1,239,703		
1950 <sup>6</sup> .....	(NA)	209,360	703,960	163,733	516,096	1,125,453		
1949 <sup>6</sup> .....	(NA)	213,323	688,999	168,884	501,997	1,134,218	7,992,732	8,969,876
1947.....	2,154	208,438	623,058	167,135	468,962	977,144		
1939 <sup>7</sup> .....	1,392	(NA)	(NA)	115,046	155,568	403,943		
1937.....	1,160	152,574	222,694	127,477	170,386	401,268		
1935.....	1,223	138,717	180,299	116,620	136,468	331,445		
1933.....	1,078	132,517	144,963	113,193	112,266	287,546	(NA)	(NA)
1929.....	1,277	145,854	220,601	122,505	165,867	460,526		
1925.....	1,269	144,685	211,136	120,422	159,355	425,094		
1921.....	1,184	149,338	217,923	117,042	152,903	332,744		
1919.....	1,304	196,321	269,175	160,996	209,489	463,361		
1909.....	1,221	104,801	70,123	87,813	50,404	164,106	1,085,069	1,415,382
1899.....	882	78,585	43,494	68,386	33,392	101,682		
Prepared meats <sup>8</sup> (S.I.C. 2013):								
1954 (excluding manufacturers' wholesale branches) <sup>9</sup> .....	1,316	44,997	186,939	33,767	124,327	330,312	1,256,147	1,634,129
1954 (including manufacturers' wholesale branches) <sup>9</sup> .....	1,529	(NA)	(NA)	38,671	(NA)	377,981		
1953 <sup>6</sup> .....	(NA)	47,378	196,385	36,914	136,872	360,740		
1952 <sup>6</sup> .....	(NA)	50,695	196,238	38,184	134,095	358,271		
1951 <sup>6</sup> .....	(NA)	50,234	180,940	38,030	124,586	327,242		
1950 <sup>6</sup> .....	(NA)	46,026	148,601	34,870	102,448	294,600	1,365,929	1,600,687
1949 <sup>6</sup> .....	(NA)	41,180	128,666	30,767	91,766	259,268		
1947.....	1,264	44,485	122,902	34,491	86,656	234,758		
1939 <sup>7</sup> .....	1,197	(NA)	(NA)	17,624	20,863	63,769		
Poultry dressing plants (S.I.C. 2015):								
1954.....	1,309	46,173	104,706	41,551	86,459	206,175	1,051,718	1,257,892
1953 <sup>6</sup> .....	(NA)	34,037	75,158	30,395	61,265	161,905		
1952 <sup>6</sup> .....	(NA)	34,423	73,819	30,630	59,613	142,023	715,043	876,948
1951 <sup>6</sup> .....	(NA)	32,796	67,655	28,930	53,734	121,229		
1947.....	553	21,570	36,222	19,076	29,085	67,840	411,153	478,993
1939 <sup>7</sup> .....	752	(NA)	(NA)	13,954	8,162	22,089	112,672	134,761
1937.....	533	10,149	7,884	8,913	5,931	18,384		
1935.....	562	9,476	7,132	8,078	5,068	16,302	87,457	105,841
1933.....	437	8,665	6,376	7,471	4,862	14,304		
1929 <sup>10</sup> .....	485	9,154	9,869	7,769	7,285	23,295	106,866	130,161

NA Not available.

<sup>1</sup>The number of "All employees" and the number of "Production and related workers" for the period 1949-1954 are based on employment for the payroll periods ended nearest the 15th of March, May, August, and November. However, in the case of the "Poultry dressing plants" industry a different method was used for 1954: All employees represents the average of 12 monthly figures, and production workers was calculated by subtracting from the all employees total the average number of nonproduction employees for March, May, August, and November. For 1947, they represent the average of 12 monthly figures. For earlier years, the production worker average was calculated as in 1947, but the figure for all employees represents the sum of the annual average number of production workers and the number of nonproduction workers reported for one payroll period (usually in October).

<sup>2</sup>Value of products less cost of materials, supplies, fuel, electric energy and contract work. See Introduction, "Value Added by Manufacture."

<sup>3</sup>Figures for years prior to 1935 do not include cost of contract work.

<sup>4</sup>For Industries 2011 and 2013, the figures represent value of gross shipments (see text for these industries). For Industry 2015, the figures for 1929 and 1951-1954 represent value of shipments and for other years, value of production. See Introduction, "Value of Shipments."

<sup>5</sup>Industry 2011, Meat Packing Plants, includes Industry 2012, Custom Slaughtering, Wholesale.

<sup>6</sup>The figures for 1949-1953 represent estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period. Estimates with a standard error in excess of the 15 percent generally have been omitted from this table.

<sup>7</sup>The figures for 1939 are not entirely comparable with those for earlier years. Value added by manufacture for 1939 on a basis comparable with earlier years was \$423.2 million for Industry 2011, Meat Packing Plants, and \$23.6 million for Industry 2015, Poultry Dressing Plants. No comparable figures are available for "Prepared Meats" prior to 1939.

<sup>8</sup>Industry 2013, Prepared Meats, include Industry 2014, Sausage Casings.

<sup>9</sup>For 1953 and prior years, separate manufacturers reports were submitted covering the manufacture of prepared meats at manufacturers' wholesale branches, which were classified as manufacturing establishments in Industry 2013, Prepared Meats. For 1954, these establishments submitted a single report covering the entire establishment and were classified in the Wholesale Trade industries, but number of production workers engaged in the manufacture of prepared meats, cost of materials consumed in the manufacture of prepared meats, and shipments of prepared meats manufactured on the premises were reported separately.

<sup>10</sup>Industry 2015, "Poultry dressing plants", was not canvassed in 1927. The figures for 1925 and earlier years are not sufficiently comparable with those for later years to be shown in this table.



## MEAT PRODUCTS

20A-5

Table 2.—GENERAL STATISTICS BY REGIONS AND STATES: 1954 AND 1947  
(For explanation of column captions see Introduction)

Industry, region, and State <sup>1</sup>	1954											1947	
	Establishments, number		All employees		Production workers			Value added by manufacture	Cost of materials, etc.	Value of shipments	Capital expenditures, new	All employees, number	Value added by manufacture
	Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)		(\$1,000)
Meat packing plants (S.I.C. 2011), total.....	2,367	933	220,194	942,970	167,815	354,779	687,878	1,394,486	8,511,201	9,905,687	64,976	208,438	977,144
New England.....	84	22	2,799	11,701	2,161	4,634	8,520	17,908	104,571	122,480	918	4,122	16,693
Maine.....	14	2	96	329	78	176	235	546	2,381	2,927	31	201	(D)
Massachusetts.....	34	10	1,592	6,775	1,222	2,593	4,989	11,776	55,099	66,876	309	2,961	11,323
Rhode Island.....	8	3	153	559	118	248	352	775	5,893	6,669	25	122	651
Connecticut.....	16	5	763	3,200	589	1,311	2,330	3,556	32,975	36,532	(D)	591	2,413
Middle Atlantic.....	352	132	19,892	84,901	14,618	30,962	58,027	124,969	784,189	909,158	5,323	19,088	103,212
New York.....	106	37	6,590	29,140	4,965	10,660	20,337	46,186	266,598	312,784	2,400	7,211	43,089
New Jersey.....	51	20	3,611	16,764	2,794	5,975	11,977	25,396	224,079	249,476	1,107	2,729	15,507
Pennsylvania.....	195	75	9,691	38,996	6,858	14,326	25,712	53,387	293,511	346,898	1,815	9,148	44,616
East North Central.....	585	208	59,066	263,890	45,938	97,181	196,684	378,269	2,170,612	2,548,882	18,570	58,451	270,418
Ohio.....	193	70	11,568	51,572	8,370	18,220	34,288	106,817	407,713	514,531	2,635	8,317	43,894
Indiana.....	117	32	8,927	40,536	7,040	15,566	31,457	53,189	309,038	362,228	2,284	8,663	47,268
Illinois.....	106	46	26,526	117,936	21,306	44,567	92,085	135,944	967,756	1,103,700	10,511	29,515	125,546
Michigan.....	112	37	3,160	14,692	2,386	5,191	9,875	27,279	167,575	194,855	1,128	4,474	24,938
Wisconsin.....	57	23	8,883	39,153	6,834	13,635	28,977	55,038	318,528	373,567	2,010	7,482	28,772
West North Central.....	268	127	75,481	333,237	58,644	123,044	254,941	487,116	3,140,050	3,627,167	15,957	72,996	335,551
Minnesota.....	29	14	15,416	72,502	11,808	24,153	56,018	122,233	577,118	699,351	4,065	13,646	69,144
Iowa.....	43	28	25,533	111,990	20,064	41,747	85,336	154,885	1,068,781	1,223,667	5,176	22,665	92,609
Missouri.....	67	26	9,191	40,128	7,065	14,741	29,712	49,067	386,776	435,843	1,812	9,281	39,908
Nebraska.....	49	24	11,126	48,764	8,911	18,907	39,687	67,070	544,117	611,188	1,697	9,466	60,589
Kansas.....	51	22	9,484	40,165	7,192	15,345	29,415	55,396	353,237	408,634	2,435	13,310	49,319
South Atlantic.....	286	129	16,010	55,631	11,902	24,883	36,874	84,575	448,637	533,212	6,691	11,961	48,702
Maryland.....	36	12	3,491	13,434	2,567	4,760	8,503	17,172	92,459	109,632	2,391	2,760	11,781
Virginia.....	40	19	3,017	10,074	2,413	4,962	7,318	19,121	99,274	118,396	1,193	1,991	8,612
West Virginia.....	14	5	371	1,249	278	629	861	1,900	7,512	9,413	111	395	1,471
North Carolina.....	58	23	1,466	4,235	1,037	2,377	2,494	8,139	36,634	44,773	394	692	4,091
South Carolina.....	27	11	1,320	4,236	918	2,148	2,480	5,953	24,206	30,159	315	1,030	3,919
Georgia.....	60	32	4,160	15,374	2,995	6,368	10,523	20,446	119,854	140,301	1,454	3,520	12,462
Florida.....	39	23	1,965	6,238	1,523	3,360	4,345	9,869	62,434	72,304	772	(D)	(D)
East South Central.....	142	69	9,174	34,373	6,952	15,170	23,996	53,448	311,032	364,480	4,639	6,712	32,535
Kentucky.....	52	21	2,552	10,275	1,969	4,318	7,253	15,391	95,371	110,763	809	1,706	9,098
Tennessee.....	39	21	3,920	15,885	2,889	6,313	11,171	23,748	136,313	160,062	2,802	2,891	14,379
Alabama.....	35	19	1,744	5,657	1,305	2,821	3,774	10,125	53,352	63,478	1,683	1,546	6,848
Mississippi.....	16	8	958	2,555	788	1,717	1,797	4,182	25,994	30,176	343	569	2,210
West South Central.....	259	90	15,718	59,538	11,567	25,310	40,703	97,478	452,721	550,199	4,598	15,109	70,756
Arkansas.....	34	13	737	2,062	495	1,171	1,185	4,764	15,888	20,653	609	466	3,091
Louisiana.....	35	11	1,095	3,724	816	1,847	2,411	5,909	21,508	27,418	375	971	3,865
Oklahoma.....	37	13	3,421	13,471	2,460	5,476	8,985	18,256	103,960	122,216	660	3,575	14,297
Texas.....	153	53	10,464	40,280	7,795	16,814	28,121	68,548	311,363	379,912	2,952	10,097	49,503
Mountain.....	147	50	7,062	29,371	5,344	11,281	20,877	44,525	326,302	370,827	2,378	5,968	29,435
Montana.....	15	6	704	2,427	584	1,075	1,793	2,961	17,618	20,579	167	667	(D)
Idaho.....	25	8	421	1,736	320	733	1,229	4,733	16,410	21,144	291	338	(D)
Wyoming.....	11	1	84	318	59	125	217	631	2,750	3,381	33	80	(D)
Colorado.....	46	18	3,810	16,333	2,918	5,979	11,787	22,058	205,727	227,786	1,114	3,231	15,786
New Mexico.....	12	4	345	1,251	235	609	739	2,372	9,095	11,468	143	259	(D)
Arizona.....	12	3	514	2,060	399	903	1,537	4,019	20,151	24,170	312	530	2,049
Utah.....	21	9	1,129	5,022	791	1,774	3,418	6,914	50,037	56,952	293	750	3,753
Nevada.....	5	1	53	222	36	79	153	834	4,510	5,345	22	113	(D)
Pacific.....	244	106	14,988	70,326	10,687	22,311	47,251	106,196	773,084	879,280	5,899	14,031	69,842
Washington.....	63	16	2,477	10,560	1,784	3,668	7,091	16,690	94,166	110,856	899	2,468	13,092
Oregon.....	59	13	1,737	7,556	1,266	2,315	4,794	9,366	64,416	73,783	787	1,210	5,511
California.....	122	77	10,773	52,209	7,736	16,327	35,365	80,139	614,501	694,640	4,211	10,353	51,239
1954													
Prepared meats <sup>2</sup> (excluding manu- facturers' whole- sale branches) (S.I.C. 2013), total.....	Establishments, number		All employees		Production workers			Value added by manufacture	Cost of materials, etc.	Value of shipments	Capital expenditures, new		
	Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (\$1,000)	Wages (\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)
New England.....	117	38	4,167	17,214	3,149	6,677	11,859	26,613	106,358	132,972	1,437		
Maine.....	7	4	140	493	93	211	311	1,009	2,911	3,921	23		
Massachusetts.....	64	27	3,401	14,329	2,590	5,464	9,939	21,639	91,846	113,486	1,260		
Connecticut.....	26	4	331	1,257	229	484	779	2,253	5,288	7,542	133		

See footnotes at end of table.

## MANUFACTURES--INDUSTRY STATISTICS

Table 2.—GENERAL STATISTICS BY REGIONS AND STATES: 1954 AND 1947—Continued

For explanation of column headings see Introduction)

Industry, region, and State <sup>1</sup>	1954										1947	
	Establishments, number		All employees		Production workers			Value added by manufacture	Cost of materials, etc.	Value of shipments	Capital expenditures, new	Value added by manufacture
	Total	20 or more employees	Number	Payroll (\$1000)	Number	Man-hours (\$1,000)	Wages (\$1,000)					
Prepared meats <sup>2</sup> (excluding manufacturers wholesale branches), etc.—Continued												
Middle Atlantic.....	339	111	10,476	45,485	7,889	16,366	30,344	76,476	288,105	364,583	3,115	
New York.....	132	61	5,820	27,082	4,358	9,126	17,631	45,756	167,803	213,560	1,626	
New Jersey.....	59	21	1,517	6,605	1,139	2,361	4,599	12,022	44,714	56,738	536	
Pennsylvania.....	92	29	3,139	11,798	2,391	4,879	8,112	18,697	75,588	94,285	952	
East North Central.....	323	137	15,882	70,745	11,955	25,378	46,967	121,792	312,393	434,186	5,154	
Ohio.....	53	22	1,337	5,203	1,000	2,044	3,365	8,840	22,740	31,582	402	
Indiana.....	20	6	825	3,333	769	1,773	3,032	9,093	13,630	22,724	448	
Illinois.....	121	57	9,654	44,829	7,318	15,557	29,666	75,186	196,786	271,974	2,714	
Michigan.....	70	31	2,550	11,229	1,817	3,879	7,217	19,388	53,282	72,671	1,113	
Wisconsin.....	59	21	1,514	6,150	1,048	2,123	3,684	9,281	25,953	35,235	474	
West North Central.....	92	30	2,936	10,695	2,354	4,765	7,906	19,680	74,874	94,555	1,065	
Minnesota.....	19	11	976	3,582	763	1,472	2,554	6,206	20,607	26,814	395	
Iowa.....	14	4	297	1,176	223	454	852	1,680	12,435	14,115	62	
Missouri.....	29	7	603	2,211	485	1,042	1,636	4,473	14,850	19,324	170	
Nebraska.....	12	5	788	2,758	664	1,333	2,153	5,790	22,562	28,353	191	
Kansas.....	8	2	223	813	181	376	597	1,288	3,354	4,643	224	
South Atlantic.....	141	40	4,020	13,675	3,083	6,049	8,888	24,697	92,978	117,676	1,827	
Maryland.....	21	9	1,605	5,852	1,277	2,584	4,022	10,441	42,643	53,085	731	
Virginia.....	14	3	237	724	185	359	441	1,419	4,514	5,934	42	
North Carolina.....	22	4	377	1,105	280	557	604	2,143	6,853	8,997	100	
South Carolina.....	12	...	47	95	39	63	76	227	686	913	51	
Georgia.....	34	7	479	1,444	345	655	824	3,045	8,930	11,976	297	
Florida.....	25	10	539	1,733	382	756	1,018	2,909	12,615	15,525	231	
East South Central.....	46	9	732	2,143	536	1,073	1,339	9,184	18,779	27,964	323	
Tennessee.....	19	4	320	980	218	448	534	3,900	6,059	9,960	155	
Mississippi.....	11	1	86	178	68	121	131	435	1,029	1,464	62	
West South Central.....	85	22	2,042	6,333	1,379	2,801	3,753	14,535	45,322	59,858	701	
Arkansas.....	4	1	31	103	25	46	64	160	713	873	22	
Louisiana.....	18	5	489	1,511	285	565	709	1,508	5,973	7,482	197	
Oklahoma.....	12	2	166	507	128	251	351	1,626	4,811	6,438	60	
Texas.....	51	14	1,354	4,212	940	1,937	2,628	11,240	33,824	45,064	421	
Mountain.....	30	4	442	1,837	327	692	1,164	3,398	13,182	16,581	272	
Colorado.....	9	3	295	1,315	210	457	772	2,469	9,865	12,335	131	
New Mexico.....	5	...	15	56	11	23	40	110	411	521	7	
Utah.....	5	...	26	75	20	39	61	177	641	818	(D)	
Pacific.....	147	44	4,295	18,808	3,091	6,227	12,102	33,932	133,070	167,003	1,716	
Washington.....	17	4	277	1,026	192	400	657	2,226	7,357	9,583	155	
Oregon.....	18	5	287	1,268	203	408	828	2,281	7,617	9,899	77	
California.....	112	35	3,729	16,512	2,695	5,418	10,616	29,423	118,095	147,519	1,483	
1947												
Poultry dressing plants (S.I.C. 2015), total.....	Establishments, number		All employees		Production workers			Value added by manufacture	Cost of materials, etc.	Value of shipments	Capital expenditures, new	All employees, number
	Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (\$1,000)	Wages (\$1,000)					
New England.....	1,309	493	46,173	104,706	41,551	79,530	86,459	206,175	1,051,718	1,257,892	10,768	21,570
Maine.....	62	24	2,068	5,522	1,803	3,694	4,662	12,030	74,113	86,143	322	300
Massachusetts.....	21	11	875	2,164	771	1,546	1,728	5,840	31,043	36,883	148	34
Connecticut.....	23	6	661	1,839	567	1,159	1,590	3,061	20,240	23,301	89	193
Middle Atlantic.....	5	3	328	1,055	287	663	910	2,090	15,320	17,410	52	(D)
New York.....	131	38	3,226	8,767	2,733	5,476	6,965	15,706	84,230	99,937	905	891
New Jersey.....	56	13	1,079	3,235	904	1,732	2,523	5,669	31,771	37,441	388	142
Pennsylvania.....	16	7	298	835	260	576	691	1,357	7,293	8,651	155	157
East North Central.....	59	18	1,849	4,697	1,568	3,168	3,749	8,679	45,165	53,844	361	592
Ohio.....	255	60	5,291	12,743	4,674	8,914	10,037	24,144	114,944	139,089	1,438	1,362
Indiana.....	83	17	1,352	3,293	1,186	2,302	2,605	8,341	34,286	42,628	318	280
Illinois.....	44	16	1,269	3,135	1,114	2,272	2,324	5,439	27,287	32,727	303	279
Michigan.....	56	14	1,381	3,471	1,216	2,154	2,584	4,912	25,781	30,694	376	603
Wisconsin.....	41	6	900	1,165	424	807	1,088	2,716	12,538	15,254	198	85
West North Central.....	26	7	788	1,679	734	1,376	1,434	2,735	15,049	17,785	241	115
Minnesota.....	167	84	7,571	17,274	6,857	13,638	14,472	32,057	143,824	175,882	1,663	9,438
Iowa.....	26	19	1,953	4,587	1,715	3,418	3,728	8,518	41,040	49,558	687	2,281
Missouri.....	45	28	2,149	4,828	1,959	3,917	4,029	10,072	41,938	52,011	311	2,811
Nebraska.....	44	17	1,434	3,005	1,303	2,410	2,453	6,087	26,332	32,420	166	1,148
Kansas.....	17	11	1,284	3,139	1,219	2,510	2,878	4,677	17,365	22,043	264	2,116
	29	5	453	1,022	387	759	787	1,247	9,646	10,893	128	456

See footnotes at end of table.

## MEAT PRODUCTS

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Table 2.—GENERAL STATISTICS BY REGIONS AND STATES: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Region, division, and State <sup>1</sup>	1954										1947		
	Establishments, number		All employees		Production workers			Value added by manufacture	Cost of materials, etc.	Value of shipments	Capital expenditures, new	All employees, number	Value added by manufacture
	Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)		(\$1,000)
Poultry dressing plants—Continued													
South Atlantic.....	210	108	12,450	25,923	11,434	22,589	21,824	53,897	313,528	367,426	2,210	5,058	13,645
Delaware.....	14	10	1,492	3,302	1,385	2,685	2,768	5,949	46,536	52,486	301	1,300	4,004
Maryland.....	26	10	1,969	4,454	1,853	3,777	3,890	10,182	47,550	57,733	477	1,652	4,665
Virginia.....	37	20	2,179	4,612	2,029	4,153	4,086	8,780	49,248	58,029	249	791	1,777
North Carolina.....	58	27	2,026	3,475	1,847	3,339	2,902	8,425	44,328	52,754	378	195	439
South Carolina.....	15	4	198	293	180	277	256	1,075	4,673	5,749	74	(D)	(D)
Georgia.....	35	26	3,930	8,635	3,524	7,219	6,873	16,759	106,910	123,670	600	957	2,441
Florida.....	11	6	270	380	252	403	357	839	5,111	5,951	95	(D)	(D)
East South Central.....	73	38	3,416	6,323	2,973	5,285	4,907	12,036	76,724	88,760	804	353	1,477
Tennessee.....	17	6	507	1,071	383	688	628	1,755	15,054	16,810	100	157	555
Mississippi.....	23	15	1,295	2,290	1,193	2,029	1,919	4,634	26,447	31,081	276	(D)	(D)
West South Central.....	167	67	6,540	12,551	5,994	10,737	10,526	25,873	119,181	145,054	1,045	1,678	3,747
Arkansas.....	36	20	2,500	4,987	2,386	4,505	4,457	9,200	39,017	48,218	452	375	581
Louisiana.....	16	2	236	373	213	327	299	942	4,179	5,121	66	...	...
Oklahoma.....	25	6	640	1,433	535	1,034	1,128	2,522	13,218	15,741	77	381	1,099
Texas.....	90	39	3,162	5,758	2,859	4,871	4,641	13,207	62,766	75,974	448	922	2,067
Mountain.....	40	12	800	1,791	722	1,282	1,480	1,461	8,244	9,706	477	656	1,899
Colorado.....	15	6	297	788	250	493	597	544	5,152	5,697	103	66	(D)
New Mexico.....	3	...	6	11	5	9	10	45	266	221	...	...	...
Utah.....	8	6	441	863	418	697	775	663	1,978	2,642	(D)	481	(D)
Pacific.....	204	62	4,809	13,810	4,356	7,913	11,582	28,967	116,926	145,893	1,899	1,834	7,425
Washington.....	36	10	717	2,073	668	1,148	1,783	3,478	13,527	17,006	60	354	1,491
Oregon.....	26	9	662	1,832	605	1,146	1,574	3,515	15,249	18,763	419	553	2,560
California.....	142	43	3,430	9,905	3,083	5,618	8,224	21,973	88,150	110,123	1,419	927	3,374

Note: Detailed figures may not add to the totals due to independent rounding.

<sup>1</sup> Withheld to avoid disclosing figures for individual companies.<sup>2</sup> General statistics for some producing States are not shown separately in the table (See INTRODUCTION "Confidentiality of data for individual companies"). Such States are shown below with the number of establishments in each State for 1954 and, in parentheses, the number of employees or the employment-size range for that State for 1954:

S.I.C. 2011, Meat Packing Plants: New England—New Hampshire, 4 (20-99); Vermont, 8 (20-99); West North Central—North Dakota, 8 (500-999); South Dakota, 21 (4,016); South Atlantic—Delaware, 9 (20-99); District of Columbia, 3 (100-249).

S.I.C. 2013, Prepared Meats: New England—New Hampshire, 8 (100-249); Rhode Island, 12 (20-99); West North Central—North Dakota, 4 (20-99); South Dakota, 2 (1-19); South Atlantic—Delaware, 5 (100-249); District of Columbia, 5 (250-499); West Virginia, 3 (100-249); East South Central—Kentucky, 9 (100-249); Alabama, 7 (100-249); Mountain—Montana, 1 (1-19); Idaho, 1 (1-19); Wyoming, 2 (1-19); Arizona, 6 (20-99); Nevada, 3 (1-19).

S.I.C. 2015, Poultry Dressing Plants: New England—New Hampshire, 10 (100-249); Vermont, 2 (20-99); Rhode Island, 1 (1-19); West North Central—North Dakota, 4 (100-249); South Dakota, 2 (100-249); South Atlantic—District of Columbia, 1 (1-19); West Virginia, 13 (250-499); East South Central—Kentucky, 13 (100-249); Alabama, 20 (1,431); Mountain—Montana, 2 (1-19); Idaho, 4 (1-19); Wyoming, 4 (1-19); Arizona, 3 (1-19); Nevada, 1 (1-19).

Table 2A.—SELECTED STATISTICS FOR INDUSTRY 2013 AND MANUFACTURERS' WHOLESALE BRANCHES COMBINED, BY DIVISIONS AND STATES: 1954 AND 1947

Division and State	1954					1947		
	Establishments, number	Production workers, number	Value added by manufacture	Cost of materials, etc.	Value of shipments	All employees, number	Production workers, number	Value added by manufacture
			(\$1,000)	(\$1,000)	(\$1,000)			(\$1,000)
United States, total.	1,529	38,671	377,981	1,256,147	1,634,129	44,485	34,491	234,758
New England.....	136	3,551	29,771	121,749	151,521	3,752	2,856	18,567
Maine.....	12	149	1,723	4,215	5,939	162	122	975
Massachusetts.....	71	(3)	(7)	(10)	(10)	2,727	2,129	14,004
Connecticut.....	31	290	2,777	7,398	10,176	(D)	(D)	(D)
Middle Atlantic.....	389	8,761	85,549	323,532	409,083	10,846	7,998	53,658
New York.....	207	4,748	48,591	184,299	232,891	5,583	4,147	29,656
New Jersey.....	64	1,178	12,352	46,748	59,102	1,971	1,408	8,880
Pennsylvania.....	118	2,834	24,605	92,485	117,090	3,292	2,443	15,122
East North Central.....	345	12,407	125,562	328,256	453,819	15,148	12,152	83,348
Ohio.....	60	(4)	(8)	(8)	(8)	1,903	1,521	8,867
Indiana.....	22	(3)	(9)	(7)	(7)	366	297	2,423
Illinois.....	127	(6)	(9)	(10)	(11)	10,271	8,422	57,538
Michigan.....	76	(4)	(7)	(9)	(9)	1,593	1,164	9,636
Wisconsin.....	60	(4)	(6)	(8)	(8)	1,015	748	4,884
West North Central.....	99	2,978	29,516	94,184	123,701	3,543	2,912	22,545
Minnesota.....	22	(3)	(6)	(7)	(8)	1,589	1,271	8,545
Iowa.....	21	(3)	(7)	(7)	(8)	245	174	1,607
Missouri.....	30	(3)	(6)	(7)	(7)	593	499	3,028

See footnotes at end of table.



## MANUFACTURES—INDUSTRY STATISTICS

Table 2A.—SELECTED STATISTICS FOR INDUSTRY 2013 AND MANUFACTURERS WHOLESALE BRANCHES COMBINED, BY DIVISIONS AND STATE: 1954 AND 1947—Continued

Division and State	1954					1947		
	Establishments, number	Production workers, number	Value added by manufacture (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments (\$1,000)	All employees, number	Production workers, number	Value added by manufacture (\$1,000)
South Atlantic.....	188	4,196	33,875	123,461	157,337	4,150	3,212	17,032
Maryland.....	23	(4)	(7)	(8)	(9)	971	726	4,128
Virginia.....	20	(2)	(5)	(6)	(7)	550	458	3,436
North Carolina.....	31	511	3,546	11,887	15,434	307	269	1,355
South Carolina.....	17	(1)	(3)	(4)	(5)	89	83	(D)
Georgia.....	41	515	6,364	13,133	19,498	900	631	3,134
Florida.....	35	570	3,137	18,343	21,481	715	544	2,428
East South Central.....	70	922	12,858	33,063	45,922	1,575	1,089	7,359
Tennessee.....	26	304	4,588	9,365	13,954	490	328	2,333
Mississippi.....	15	(1)	(3)	(4)	(5)	91	83	(D)
West South Central.....	114	2,024	20,539	67,308	87,848	2,096	1,575	11,116
Arkansas.....	8	68	520	3,257	3,777	110	91	565
Louisiana.....	29	547	3,598	13,986	17,585	718	436	2,976
Oklahoma.....	14	(1)	(4)	(6)	(6)	165	139	1,205
Texas.....	63	1,216	14,351	43,011	57,362	1,103	909	6,370
Mountain.....	32	(2)	(5)	(7)	(7)	349	272	2,296
Colorado.....	9	210	2,469	9,865	12,335	300	228	2,078
New Mexico.....	3	11	110	411	521	(D)	(D)	(D)
Utah.....	5	20	177	641	818	30	27	(D)
Pacific.....	156	3,496	36,852	150,732	187,585	3,026	2,425	18,837
Washington.....	20	331	3,252	13,090	16,342	526	415	2,838
Oregon.....	18	203	2,281	7,617	9,899	163	127	923
California.....	118	2,961	31,317	130,024	161,342	2,337	1,883	15,076

Note: Detailed figures may not add to the totals due to independent rounding.

D Withheld to avoid disclosing figures for individual companies.

1-11 Data for 1954, other than number of establishments, have been grouped into class intervals to avoid disclosure of individual company figures still provide comparability with 1947 statistics. The class intervals indicated are as follows:

Number of Production Workers	Value added by manufacture, cost of materials, etc., and value of shipments (\$1,000)	
100-249	100-249	710,000-24,999
250-499	250-499	25,000-49,999
500-999	500-999	50,000-99,999
1,000-2,499	1,000-2,499	100,000-249,999
2,500-4,999	2,500-4,999	250,000-499,999
5,000-9,999	5,000-9,999	

## MEAT PRODUCTS

20A-9

Table 3.—DETAILED STATISTICS FOR THE UNITED STATES: 1954

(For explanation of line captions see Introduction)

Item	Meat packing plants (S.I.C. 2011) all establishments	Prepared meats (S.I.C. 2013)		Poultry dressing plants (S.I.C. 2015) all establishments
		All establishments	Establishments with 90% or more primary product specialization	
Primary product specialization ratio <sup>1</sup> .....	98	83	...	96
Coverage ratio <sup>2</sup> .....	87	28	xxx	97
Number of establishments, total.....	2,367	1,316	983	1,309
With 1-19 employees.....	1,434	881	693	816
With 20-99 employees.....	627	332	225	348
With 100 employees and over.....	306	103	65	145
All employees:				
Number (average for year).....	220,194	44,997	29,324	46,173
Payroll.....\$1,000.....	942,970	186,939	122,864	104,706
Production workers:				
Number (average for year).....	167,815	33,767	22,230	41,551
Man-hours.....1,000.....	354,779	70,034	46,238	79,530
Wages.....\$1,000.....	687,878	124,327	81,877	86,459
Value added by manufacture.....	1,394,486	330,312	218,347	206,175
Cost of materials, etc.....do.....	8,511,201	1,085,069	624,624	1,051,718
Value of shipments.....do.....	9,905,687	1,415,382	842,973	1,257,892
Value added by resales.....do.....	22,497	8,405	7,165	5,270
Cost of products bought and resold.....do.....	337,134	117,283	70,135	69,011
Sales of products bought and resold.....do.....	359,632	125,690	77,301	74,281
Total inventories, beginning of year.....do.....	431,567	85,390	52,299	61,295
Total inventories, end of year.....do.....	410,447	79,268	49,630	56,265
Capital expenditures, new.....do.....	64,976	15,617	11,218	10,768
Total employment, by month:				
January.....	(NA)	(NA)	(NA)	41,946
February.....	(NA)	(NA)	(NA)	40,902
March.....	218,833	44,380	28,758	40,990
April.....	(NA)	(NA)	(NA)	42,175
May.....	214,133	43,899	28,758	43,837
June.....	(NA)	(NA)	(NA)	45,046
July.....	(NA)	(NA)	(NA)	46,257
August.....	220,787	45,549	29,755	47,025
September.....	(NA)	(NA)	(NA)	49,763
October.....	(NA)	(NA)	(NA)	52,216
November.....	227,024	46,161	30,036	52,840
December.....	(NA)	(NA)	(NA)	51,078
Cost of materials, fuel, electricity and contract work, total.....\$1,000.....	8,511,201	1,085,069	624,624	1,051,718
Materials, parts, containers, and supplies consumed.....do.....	8,458,758	1,074,672	619,095	1,045,403
Fuels consumed, total.....do.....	28,981	4,114	2,418	2,485
Bituminous coal and anthracite:				
Quantity.....1,000 short tons.....	1,463	71	(NA)	43
Value.....\$1,000.....	10,967	666	(NA)	515
Coke:				
Quantity.....1,000 short tons.....	2	2	(NA)	1
Value.....\$1,000.....	38	40	(NA)	5
Fuel oil:				
Quantity.....1,000 barrels.....	1,499	451	(NA)	188
Value.....\$1,000.....	4,713	1,472	(NA)	817
Gas:				
Quantity.....million cubic feet.....	37,182	4,522	(NA)	2,957
Value.....\$1,000.....	9,267	1,245	(NA)	681
Other fuels:				
Value.....do.....	3,996	691	(NA)	467
Electric energy:				
Purchased:				
Quantity.....million kwh.....	1,583	261	167	238
Cost.....\$1,000.....	20,449	4,142	2,715	3,437
Generated.....million kwh.....	164	3	3	...
Sold:				
Quantity.....million kwh.....	1	...	...	...
Value.....\$1,000.....	17	...	...	...
Cost of contract work.....do.....	3,013	2,141	396	393
Manufacturers' inventories:				
Beginning of year, total.....do.....	431,567	85,390	52,299	61,295
Finished products.....do.....				49,311
Work-in-process.....do.....	337,676	69,856	41,334	1,008
Materials, supplies, fuel, etc.....do.....	93,891	15,534	10,964	10,976
End of year, total.....do.....	410,447	79,268	49,630	56,265
Finished products.....do.....				45,442
Work-in-process.....do.....	317,868	64,890	39,839	812
Materials, supplies, fuel, etc.....do.....	92,579	14,376	9,790	10,011
Expenditures for plant and equipment, total.....do.....	66,592	17,797	13,137	11,606
Capital expenditures, new.....do.....	64,976	15,617	11,218	10,768
New structures and additions to plant.....do.....	24,900	5,762	4,117	3,554
New machinery and equipment.....do.....	40,076	9,855	7,101	7,214
Expenditures for used plant and equipment.....do.....	1,616	2,180	1,919	838
Horsepower rating of power equipment at end of 1954:				
Horsepower of prime movers and electric motors driven by purchased energy, total, 1,000 hp..	897	130	80	66
Engines, etc., driving electric generators.....do.....	98	2	( <sup>3</sup> )	1
Engines, etc., not driving electric generators.....do.....	112	8	5	1
Electric motors driven by purchased energy.....do.....	687	120	75	64
Electric motors driven by energy generated at the establishment.....do.....	62	1	1	( <sup>3</sup> )

Note: Detailed figures may not add to the totals because of independent rounding. NA Not available. xxx Not applicable. <sup>1</sup>The specialization ratio compares the given industry's shipments of its primary products to its total shipments of all products. (The primary products are listed in Tables 5B and 6A.) Columns containing totals for establishments with 90% or more primary product specialization are shown only for those industries having a primary product specialization of less than 90%. <sup>2</sup>The coverage ratio measures the extent to which the total shipments of products primary to the given industry are shipped by establishments classified in that industry. <sup>3</sup>Less than 500 hp.

## MANUFACTURES--INDUSTRY STATISTICS

Table 4.--SELECTED STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR THE UNITED STATES: 1954

(Value figures in thousands of dollars. For explanation of line captions see Introduction. Data which cannot be shown without disclosing information for individual companies have been combined with figures for other size classes. A (D) appears in the column where the figure has been omitted and the combined figure is underlined and shown in the size-class to the left)

Ind. code	Industry and item	Total, all establishments	Establishments with an average of—									
			1-4 em- ploys	5-9 em- ploys	10-19 em- ploys	20-49 em- ploys	50-99 em- ploys	100-249 employees	250-499 employees	500-999 employees	1,000-2,499 employees	2,500 employees and over
2011	Meat packing plants:											
	Number of establishments..	2,367	760	349	325	419	208	151	69	41	29	16
	Number of employees.....	220,194	1,785	2,503	4,711	13,482	14,749	23,883	24,715	29,430	45,265	59,667
	Value added by manufacture	1,394,486	13,228	17,532	36,069	100,989	115,037	175,928	154,705	182,009	222,122	376,864
2013	Prepared meats:											
	Number of establishments..	1,316	431	211	239	226	106	78	19	3	3	...
	Number of employees.....	44,997	1,095	1,475	3,439	7,303	7,492	11,561	6,564	1,770	4,293	...
	Value added by manufacture	330,312	7,610	9,061	22,445	49,405	60,464	86,841	48,778	15,659	30,043	...
2015	Poultry dressing plants:											
	Number of establishments..	1,309	478	189	149	205	143	132	12	1	...	...
	Number of employees.....	46,173	1,179	1,338	2,128	6,881	10,431	19,429	4,785	(D)	...	...
	Value added by manufacture	206,175	6,540	7,817	10,612	30,635	47,176	85,473	<u>17,919</u>	(D)	...	...

Note: Detailed figures may not add to the totals because of independent rounding.

Table 5A.--INDUSTRY-PRODUCT ANALYSIS--SUMMARY OF INDUSTRY AND PRIMARY PRODUCT SHIPMENTS, SPECIALIZATION RATIOS AND COVERAGE RATIOS, FOR THE UNITED STATES: 1954 AND 1947

Industry code	Industry and census year	Value of shipments					Value of primary products shipped			
		Total	Primary products	Secondary products	Misce- laneous receipts	Primary product special- ization ratio <sup>1</sup>  Col. B Col. B+C (Percent)	Total (made in all industries)	Made in this industry	Made in other industries	Coverage ratio <sup>2</sup>  Col. G Col. F (Percent)
(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(E)	(\$1,000)	(\$1,000)	(\$1,000)	(I)		
(A)	(B)	(C)	(D)		(F)	(G)	(H)			
2011	Meat packing plants.....1954..	9,905,687	9,641,738	251,996	11,953	398	11,073,073	9,641,738	1,431,335	387
2013	Prepared meats.....1954..	1,415,382	1,176,475	235,442	3,465	383	4,201,019	1,176,475	3,024,544	3,428
2015	Poultry dressing plants.....1954..	1,257,892	1,124,809	51,610	81,473	96	1,165,597	1,124,809	40,788	97
	1947..	478,993	371,136	49,588	58,269	88	420,447	371,136	49,311	88

<sup>1</sup>The specialization ratio compares the given industry's shipments of its primary products to its total shipments of all products. (The primary products are listed in Tables 5B and 6A)

<sup>2</sup>The coverage ratio measures the extent to which the total shipments of products primary to the given industry are shipped by establishments classified in that industry.

<sup>3</sup>Ratios cannot be computed separately for Industries 2011 and 2013 for 1947, owing to lack of necessary data. On a combined basis (Industries 2011 and 2013 taken together) the primary product specialization ratios were as follows: 1954, 98%, 1947, 96%. The combined coverage ratios were: 1954, 99%, 1947, 99%.

<sup>4</sup>The coverage ratio for Industry 2013 is quite low owing to the fact that all of its primary products are also primary to Industry 2011.



MEAT PRODUCTS

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Table 5B.—INDUSTRY-PRODUCT ANALYSIS—SHIPMENTS BY PRODUCT CLASS AND INDUSTRY, FOR THE UNITED STATES: 1954

(In thousands of dollars. Each column shows for the industry listed in the column heading, the value of shipments divided between fresh meats, prepared meats, dressed poultry, other products and miscellaneous receipts. Each figure represents the amount of the product class shown at the left shipped by the industry listed at the top of the column. The first four digits of the product class codes at the left represent the codes of the industries to which they are primary. However, all of the product classes of Industry 2013 are also primary to Industry 2011, and product class 20115, Lard, is also primary to Industry 2013. All other product classes in a column represent products secondary to the specified industry)

Prod. class code	Class of products and miscellaneous receipts	Meat packing plants (S.I.C. 2011)	Prepared meats (S.I.C. 2013)	Poultry dressing plants (S.I.C. 2015)	Other industries	All industries
	Total shipments and receipts of the industry.....	9,905,687	1,415,382	1,257,892	xxx	xxx
2011-	Fresh meats and byproducts.....	7,002,163	231,360	2,355	19,339	7,255,217
20111	Fresh beef.....	3,756,773	94,841	( <sup>1</sup> )	2,199	3,853,813
20112	Fresh veal.....	390,382	5,394	( <sup>1</sup> )	150	395,926
20113	Fresh lamb and mutton.....	295,071	3,437	( <sup>1</sup> )	20	298,523
20114	Fresh pork.....	1,824,756	103,301	( <sup>1</sup> )	699	1,928,756
20115	Lard.....	367,140	15,358	...	665	383,163
20116	Hides, skins, and pelts.....	209,416	406	( <sup>1</sup> )	15,700	225,522
20117	Other meat packing plant products.....	102,309	4,670	( <sup>1</sup> )	2,017	108,996
20110	Meat packing plant products, not specified by kind.....	56,316	3,953	( <sup>1</sup> )	244	60,513
2013- 2014-	Prepared meats and sausage casings.....	2,639,575	1,161,117	xxx	17,148	3,817,856
20131	Pork, processed and cured.....	1,513,354	333,945	( <sup>1</sup> )	33	1,847,332
20132	Sausage and other prepared meat products, not canned.....	669,019	517,159	( <sup>1</sup> )	918	1,187,096
20133	Canned meats, except dog and cat food.....	381,619	187,762	( <sup>1</sup> )	<sup>2</sup> 14,058	583,439
20134	Dried beef and other cured meats, except pork.....	40,652	50,152	...	190	90,994
20130	Prepared meats, not specified by kind.....	2,299	18,225	( <sup>1</sup> )	130	20,654
20140	Sausage casings, natural and synthetic.....	32,632	53,874	...	1,835	88,341
2015-	Dressed poultry and small game.....	1,590	540	1,124,809	38,658	1,165,597
20151	Chickens and fowl.....	1,157	( <sup>1</sup> )	875,630	<sup>3</sup> 22,530	899,317
20153	Dressed turkeys.....	( <sup>1</sup> )	( <sup>1</sup> )	190,249	<sup>4</sup> 13,589	203,836
20154	Other dressed poultry and small game.....	( <sup>1</sup> )	( <sup>1</sup> )	23,397	2,330	25,727
20150	Poultry dressing, plant products, not specified by kind.....	( <sup>1</sup> )	( <sup>1</sup> )	35,533	1,184	36,717
	Other products.....	250,406	18,900	49,239	xxx	xxx
20210	Creamery butter.....	1,932	(D)	11,810	xxx	xxx
20333	Canned nonseasonal vegetables and specialties.....	(D)	7,063	...	xxx	xxx
20423	Dog and cat food.....	55,680	(D)	...	xxx	xxx
20920	Shortening and salad oils.....	19,410	1,324	...	xxx	xxx
20994	Eggs, liquid, dried and frozen.....	...	...	17,805	xxx	xxx
20997	Other food preparations, n.e.c.....	(D)	1,240	6,584	xxx	xxx
28861	Grease and tallow.....	70,716	625	...	xxx	xxx
28862	Feed and fertilizer byproducts.....	71,428	1,277	(D)	xxx	xxx
	Other secondary products.....	27,113	3,048	12,962	xxx	xxx
	Miscellaneous receipts.....	11,953	3,465	61,473	xxx	xxx

xxx Not applicable.

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>Combined with all other industries to avoid disclosure of information for individual companies.

<sup>2</sup>Includes \$10,855 thousand shipped by the canned fruits and vegetable industry (code 2033).

<sup>3</sup>Includes \$10,299 thousand shipped by the creamery butter industry (code 2021).

<sup>4</sup>Includes \$7,667 thousand shipped by the creamery butter industry (code 2021).

## MANUFACTURES--INDUSTRY STATISTICS

Table 6A.--QUANTITY AND VALUE OF PRODUCTS SHIPPED BY ALL MANUFACTURING

("Gross shipments" represent the summation of the total shipments from all establishments classified in Industry 2011, Meat Packing Plants, and lishments classified in either industry. Receipts of products at manufacturers' wholesale branches are not included in this figure. Total net at manufacturers' wholesale branches.)

Line No.	Product code	Product	Unit of quantity	1954			
				Total shipments including interplant transfers (outgoing), including manufacturers' wholesale branches (gross shipments)		Total shipments including interplant transfers (outgoing), manufacturing industries only (excluding manufacturers' wholesale branches) (gross shipments)	
				Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
1	2011---	Meat packing plant products, total <sup>2</sup> .....		xxx	7,255,217	xxx	7,255,217
2	20111	Fresh beef.....		xxx	3,853,813	xxx	3,853,813
3	2011111	Fresh and frozen, including carcass, primal cuts, boneless, etc.....	Thousand pounds	11,320,103	3,735,634	11,320,103	3,735,634
4	2011151	Fresh and frozen variety meats (edible organs: heart, liver, brains, kidneys, etc.).....	do.....	656,550	118,179	656,550	118,179
5	201112	Fresh veal.....		xxx	395,926	xxx	395,926
6	2011211	Fresh and frozen, including carcass, primal cuts, boneless, etc., hide off basis.....	Thousand pounds	1,459,421	370,693	1,459,421	370,693
7	2011251	Fresh and frozen variety meats (edible organs: heart, liver, brains, kidneys, etc.).....	do.....	81,135	25,233	81,135	25,233
8	201113	Fresh lamb and mutton.....		xxx	298,528	xxx	298,528
9	2011311	Fresh and frozen, including carcass, primal cuts, boneless, etc., pelt-off basis.....	Thousand pounds	821,176	292,339	821,176	292,339
10	2011351	Fresh and frozen variety meats (edible organs: heart, liver, brains, kidneys, etc.).....	do.....	39,170	6,189	39,170	6,189
11	20114	Fresh pork.....	do.....	xxx	1,928,756	xxx	1,928,756
12	2011411	Fresh and frozen, including carcass, primal cuts, boneless, etc. (excluding head, leaf, and kidney)....	Thousand pounds	4,758,703	1,860,653	4,758,703	1,860,653
13	2011451	Fresh and frozen variety meats (edible organs: heart, liver, brains, kidneys, etc.).....	do.....	412,745	68,103	412,745	68,103
14	2011511	Lard, rendered and refined (including rendered pork fat)..	do.....	21,647,627	383,163	21,647,627	383,163
15	20116	Hides, skins, and pelts.....		xxx	225,522	xxx	225,522
16	2011611	Cattle.....	Number.....	23,214	143,714	23,214	143,714
17	2011621	Calf.....	do.....	8,983	35,934	8,983	35,934
18	2011651	Sheep and lamb.....	do.....	19,709	39,419	19,709	39,419
19	2011698	Other.....	do.....	2,825	6,455	2,825	6,455
20	20117	Other meat packing plant products, n.e.c.....		xxx	108,996	xxx	108,996
21	2011711	Other fresh meat (goat, horse, etc.).....	Thousand pounds	184,174	21,859	184,174	21,859
22	2011741	Pulled wool <sup>3</sup> .....	do.....	18,917	15,944	18,917	15,944
23	2011751	Animal tallow, edible.....	Short tons.....	89,089	17,429	89,089	17,429
24	2011755	Animal stearin, edible.....	do.....	9,290	2,252	9,290	2,252
25	2011761	Glue stock (semi-manufactured material to be processed into glue).....	Thousand pounds	28,602	3,099	28,602	3,099
26	2011765	Killing floor offal, inedible meat scraps, and bones...	xxx	40,689	xxx	40,689	xxx
27	2011798	All other meat packing plant products, n.e.c.....		12,541	7,724	12,541	7,724
28	2011000	Slaughtering plant products, not specified by kind.....		xxx	60,513	xxx	60,513
29	2013--- and 2014---	Prepared meats and sausage casings.....		xxx	4,037,550	xxx	3,817,856
30	2013---	Prepared meats, total <sup>2</sup> .....		xxx	3,949,209	xxx	3,729,515
31	20131	Pork, processed and cured.....		xxx	1,979,451	xxx	1,847,332
32	2013111	Sweet pickled or dry cured.....	Thousand pounds	677,465	286,428	670,200	283,292
33	2013121	Dry salt.....	do.....	395,546	97,429	393,289	96,590
34	2013131	Smoked hams and piconics (except canned).....	do.....	1,273,514	674,568	1,158,833	613,712
35	2013141	Sliced bacon (except canned).....	do.....	839,625	480,946	780,503	446,909
36	2013151	Other smoked pork products.....	do.....	514,322	239,726	483,425	225,566
37	2013161	Cooked, boiled and ready-to-eat pork (excluding smoked products).....	do.....	173,835	146,228	151,195	127,153
38	2013198	Other edible pork.....	do.....	95,416	43,756	95,396	43,740
39	2013100	Other processed pork, not specified by kind.....	do.....	xxx	10,370	xxx	10,370

See footnotes at end of table.

## MEAT PRODUCTS

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ESTABLISHMENTS, FOR THE UNITED STATES: 1954 AND 1947

Industry 2013, Prepared Meats. "Purchases including interplant receipts (incoming)" represents the receipts of products of either industry at establishments for 1954 and 1947 represent the gross shipments less purchases including interplant receipts, plus the shipments of prepared meats produced

1954								1947		Line No.
Purchases including interplant receipts (incoming), manufacturing industries only (excluding manufacturers' wholesale branches)		Net shipments from manufacturing establishments (excluding manufacturers' wholesale branches)		Net shipments from manufacturers' wholesale branches <sup>1</sup>		Total net shipments (including shipments of sausage and other prepared meat products from manufacturers' wholesale branches)		total net shipments (including shipments of sausage and other prepared meat products from manufacturers' wholesale branches)		
Quantity	Value (\$1,000)	Quantity	Value (\$1,000)	Quantity	Value (\$1,000)	Quantity	Value (\$1,000)	Quantity	Value (\$1,000)	
xxx	1,391,711	xxx	5,863,506	xxx	xxx	xxx	5,863,506	xxx	5,490,419	1
xxx	689,218	xxx	3,164,595	xxx	xxx	xxx	3,164,595	xxx	2,645,771	2
2,590,038	673,410	8,730,065	3,062,224	xxx	xxx	8,730,065	3,062,224	7,156,154	2,540,571	3
80,653	15,808	575,897	102,371	xxx	xxx	575,897	102,371	412,989	105,200	4
xxx	25,630	xxx	370,296	xxx	xxx	xxx	370,296	xxx	341,568	5
86,560	24,556	1,372,861	346,137	xxx	xxx	1,372,861	346,137	954,586	318,456	6
2,937	1,074	78,198	24,159	xxx	xxx	78,198	24,159	60,115	23,112	7
xxx	10,999	xxx	287,529	xxx	xxx	xxx	287,529	xxx	284,057	8
32,940	10,679	788,236	281,660	xxx	xxx	788,236	281,660	712,810	276,887	9
2,155	320	37,015	5,869	xxx	xxx	37,015	5,869	36,122	7,170	10
xxx	637,290	xxx	1,291,466	xxx	xxx	xxx	1,291,466	xxx	1,168,541	11
1,730,853	616,184	3,027,850	1,244,469	xxx	xxx	3,027,850	1,244,469	2,853,419	1,132,851	12
140,706	21,106	272,039	46,997	xxx	xxx	272,039	46,997	212,599	35,690	13
xxx	xxx	21,647,627	383,163	xxx	xxx	21,647,627	383,163	1,816,201	466,490	14
xxx	19,029	xxx	206,493	xxx	xxx	xxx	206,493	xxx	330,890	15
1,418	4,285	21,795	139,429	xxx	xxx	21,795	139,429	30,697	227,216	16
505	1,672	8,477	34,262	xxx	xxx	8,477	34,262	9,059	61,835	17
3,561	12,680	16,148	26,739	xxx	xxx	16,148	26,739	17,161	41,839	18
225	392	2,599	6,063	xxx	xxx	2,599	6,063	(NA)	(NA)	19
xxx	4,399	xxx	104,597	xxx	xxx	xxx	104,597	xxx	54,854	20
176,188	4,363	7,986	17,496	xxx	xxx	7,986	17,496	125,704	15,789	21
...	...	18,917	15,944	xxx	xxx	18,917	15,944	22,019	17,234	22
...	...	89,089	17,429	xxx	xxx	89,089	17,429	95,319	19,488	23
...	...	9,290	2,252	xxx	xxx	9,290	2,252	(NA)	(NA)	24
...	...	28,602	3,099	xxx	xxx	28,602	3,099	(NA)	(NA)	25
...	...	xxx	40,689	xxx	xxx	xxx	40,689	( <sup>4</sup> )	( <sup>4</sup> )	26
xxx	36	12,541	7,688	xxx	xxx	12,541	7,688	xxx	2,343	27
xxx	5,146	xxx	55,367	xxx	xxx	xxx	55,367	xxx	4198,248	28
xxx	296,961	xxx	3,520,895	xxx	219,694	xxx	3,740,589	xxx	2,987,504	29
xxx	260,363	xxx	3,469,152	xxx	219,694	xxx	3,688,846	xxx	2,952,366	30
xxx	239,010	xxx	1,608,322	xxx	132,119	xxx	1,740,441	2,828,017	1,472,875	31
216,952	94,985	453,242	188,307	7,265	3,136	460,507	191,443	148,993	62,148	32
64,019	15,822	329,270	80,768	2,257	839	331,527	81,607	354,730	99,459	33
127,701	57,133	1,031,132	556,579	114,681	60,856	1,145,813	617,435	867,461	461,847	34
56,363	25,823	724,140	421,086	59,122	34,037	783,262	455,123	615,869	371,578	35
51,847	22,784	431,578	202,782	30,897	14,160	462,475	216,942	445,890	214,906	36
20,581	13,042	130,614	114,111	22,640	19,075	153,254	133,186	274,103	195,065	37
24,071	9,362	71,325	34,378	20	16	71,345	34,394	xxx	xxx	38
xxx	59	xxx	10,311	xxx	xxx	xxx	10,311	120,971	67,872	39



## MANUFACTURES—INDUSTRY STATISTICS

Table 6A.--QUANTITY AND VALUE OF PRODUCTS SHIPPED BY ALL MANUFACTURING

Line No.	Product code	Product	Unit of quantity	1954			
				Total shipments including interplant transfers (outgoing), including manufacturers' wholesale branches (gross shipments)		Total shipments including interplant transfers (outgoing), manufacturing industries only (excluding manufacturers' wholesale branches) (gross shipments)	
				Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
	2013--- and 2014---	Prepared meats and sausage casings--Continued					
1	2013---	Prepared meats--Continued					
	20132	Sausage and other prepared meat products, not canned...	Thousand pounds	xxx	1,274,671	xxx	1,187,096
2	2013211	Fresh pork sausage.....	.....do.....	474,320	202,759	450,767	192,871
3	2013215	Other fresh sausage, excluding hamburger.....	.....do.....	162,627	82,697	154,470	79,489
4	2013221	Frankfurters.....	.....do.....	905,347	364,834	806,744	326,832
5	2013225	Bologna.....	.....do.....	613,628	214,894	555,959	196,758
6	2013231	Liver sausage or braunschweiger.....	.....do.....	136,163	57,342	128,222	54,311
7	2013235	Salame, all types.....	.....do.....	123,085	75,299	115,491	72,264
8	2013241	Other hard dry sausage.....	.....do.....	34,338	24,432	34,164	24,327
9	2013245	Other semi-dry sausage.....	.....do.....	117,527	62,534	113,314	60,489
10	2013251	Meat loaves.....	.....do.....	254,906	122,804	237,127	115,560
11	2013298	Jellied goods and other preparations, not canned (soupe, head cheese, puddings, scrapple, and similar products).....	.....do.....	80,730	30,623	74,141	27,742
12	2013200	Sausage and other prepared meat products, not canned, not specified by kind.....	.....do.....	xxx	36,453	xxx	36,453
13	20133	Canned meats, except dog and cat food (packed in tin or glass).....	.....do.....	xxx	583,439	xxx	583,439
14	2013311	Products containing 20% or more meat.....	Thousand pounds	1,293,860	583,439	1,252,015	583,439
15	2013398	Other canned meats, except dog and cat food (packed in tin or glass).....	.....do.....	(NA)	(NA)	(NA)	(NA)
16	20134	Dried beef and other cured meats.....	.....do.....	xxx	90,994	xxx	90,994
17	2013411	Pickled or cured (except dried and dehydrated).....	Thousand pounds	90,985	42,687	90,985	42,687
18	2013413	Dried or dehydrated (except packed in glass or tin).....	.....do.....	21,717	17,508	21,717	17,508
19	2013415	Cooked or roasted (except sausage).....	.....do.....	8,223	5,979	8,223	5,979
20	2013419	Other edible beef.....	.....do.....	70,834	19,156	70,834	19,156
21	2013429	Other edible veal.....	.....do.....	3,914	1,634	3,914	1,634
22	2013431	Other edible lamb and mutton.....	.....do.....	59	28	59	28
23	2013400	Dried beef and other cured meats, not specified by kind.....	.....do.....	xxx	4,002	xxx	4,002
24	2013000	Prepared meat products, not specified by kind.....	.....do.....	xxx	20,654	xxx	20,654
25	20140	Sausage casings, total.....	.....do.....	xxx	88,341	xxx	88,341
26	2014011	Beef.....	.....do.....	xxx	10,583	xxx	10,583
27	2014031	Hog.....	.....do.....	xxx	20,147	xxx	20,147
28	2014051	Sheep and lamb.....	.....do.....	xxx	18,767	xxx	18,767
29	2014061	Natural casings, other.....	.....do.....	xxx	6,807	xxx	6,807
30	2014071	Synthetic casings.....	Thousand pounds	14,538	31,061	14,538	31,061
31	2014000	Sausage casings, not specified by kind.....	.....do.....	xxx	976	xxx	976

See footnotes at end of table.

## MEAT PRODUCTS

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ESTABLISHMENTS, FOR THE UNITED STATES: 1954 AND 1947--Continued

1954								1947		Line No.
Purchases including interplant receipts (incoming), manufacturing industries only (excluding manufacturers' wholesale branches)		Net shipments from manufacturing establishments (excluding manufacturers' wholesale branches)		Net shipments from manufacturers' wholesale branches <sup>1</sup>		Total net shipments (including shipments of sausage and other prepared meat products from manufacturers' wholesale branches)		total net shipments (including shipments of sausage and other prepared meat products from manufacturers' wholesale branches)		
Quantity	Value (\$1,000)	Quantity	Value (\$1,000)	Quantity	Value (\$1,000)	Quantity	Value (\$1,000)	Quantity	Value (\$1,000)	
xxx	314	xxx	1,186,782	xxx	87,575	xxx	1,274,357	2,359,113	961,654	1
xxx	xxx	450,767	192,871	23,553	9,888	474,320	202,759			2
700	282	153,770	79,207	8,157	3,208	161,927	82,415			3
xxx	18	806,744	326,814	98,603	38,002	905,347	364,816			4
xxx	14	555,959	196,744	57,669	18,136	613,628	214,880			5
xxx	xxx	128,222	54,311	7,941	3,031	136,163	57,342			6
xxx	xxx	115,491	72,264	7,594	3,035	123,085	75,299	2,359,113	961,654	7
xxx	xxx	34,164	24,327	174	105	34,338	24,432			8
xxx	xxx	113,314	60,489	4,213	2,045	117,527	62,534			9
xxx	xxx	237,127	115,560	17,779	7,244	254,906	122,804			10
xxx	xxx	74,141	27,742	6,589	2,881	80,730	30,623			11
xxx	xxx	xxx	36,453	xxx	xxx	xxx	36,453	xxx	xxx	12
xxx	xxx	xxx	583,439	xxx	xxx	xxx	583,439	1,011,352	406,151	13
xxx	xxx	1,252,015	583,439	xxx	xxx	1,252,015	583,439	4,011,352	4,406,151	14
xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx			15
xxx	21,032	xxx	69,962	xxx	xxx	xxx	69,962	xxx	47,968	16
25,940	9,837	65,045	32,850	xxx	xxx	65,045	32,850	30,608	18,000	17
3,261	1,955	18,456	15,553	xxx	xxx	18,456	15,553	22,491	17,532	18
2,662	1,684	5,561	4,295	xxx	xxx	5,561	4,295	4,169	2,827	19
24,692	7,271	46,142	11,885	xxx	xxx	46,142	11,885	10,309	7,977	20
624	229	3,290	1,405	xxx	xxx	3,290	1,405	4,143	1,588	21
31	18	28	10	xxx	xxx	28	10	189	44	22
xxx	38	xxx	3,964	xxx	xxx	xxx	3,964	xxx	xxx	23
xxx	7	xxx	20,647	xxx	xxx	xxx	20,647	xxx	63,718	24
xxx	36,598	xxx	51,743	xxx	xxx	xxx	51,743	xxx	35,138	25
xxx	4,992	xxx	5,591	xxx	xxx	xxx	5,591	(NA)	2,223	26
xxx	10,366	xxx	9,781	xxx	xxx	xxx	9,781	(NA)	11,716	27
xxx	16,859	xxx	1,908	xxx	xxx	xxx	1,908	(NA)	2,172	28
xxx	3,654	xxx	3,153	xxx	xxx	xxx	3,153	(NA)	84	29
xxx	xxx	14,538	31,061	xxx	xxx	14,538	31,061	10,970	18,943	30
xxx	727	xxx	249	xxx	xxx	xxx	249	xxx	xxx	31

## MANUFACTURES—INDUSTRY STATISTICS

Table 6A.—QUANTITY AND VALUE OF PRODUCTS SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, FOR THE UNITED STATES: 1954 AND 1947--Continued

Product code	Product	1954 total shipments including interplant transfers (outgoing), manufacturing industries only (including manufacturers' wholesale branches) (gross shipments)		1947 net shipments from manufacturers' wholesale branches	
		Quantity (1,000 pounds)	Value (\$1,000)	Quantity (1,000 pounds)	Value (\$1,000)
2015---	Poultry and small game (killed and dressed in manufacturing establishments, total) <sup>1</sup> .....	xxx	1,165,597	xxx	420,447
20151	Hens (or fowl) and other chickens.....	xxx	899,317	755,057	304,417
2015111	New York dressed (dressed weight).....	841,149	248,139	605,681	224,658
2015115	Eviscerated or drawn (eviscerated weight).....	1,764,710	651,178	149,376	79,759
20153	Turkeys.....	xxx	203,836	216,513	97,339
2015311	New York dressed (dressed weight).....	111,513	43,981	161,590	69,133
2015315	Eviscerated or drawn (eviscerated weight).....	356,024	159,855	54,923	28,206
20154	Other poultry and small game.....	xxx	25,727	xxx	6,907
2015411	Other poultry and small game killed in the establishments (ducks, geese, rabbits, etc.).....	58,287	21,916	(NA)	6,896
2015498	Poultry and small game, quick frozen but not killed in the establishment.....	9,219	3,811	xxx	1,825
2015000	Poultry not specified by kind.....	xxx	36,717	xxx	11,795

xxx Not applicable.

NA Not available.

<sup>1</sup>In the 1954 Censuses of Manufactures and Business, manufacturers' wholesale branches were classified in wholesale trade, and the production of prepared meats reported separately. In the 1947 Census of Manufactures, and Annual Surveys of Manufactures, separate reports were filed for these establishments covering only the manufacturing activities conducted on the premises and were classified in Industry 2013, Prepared meats.

<sup>2</sup>Substantial quantities of these products are produced at nonmanufacturing establishments and except for those products produced at manufacturers' wholesale branches, are not included in these statistics.

<sup>3</sup>Figures represent the output of establishments classified in Industries 2011, 2013 and 2886. Detailed production information was not obtained from establishments primarily engaged in wool pulling (Industry 3999). Total production for 1954 was 43,500,000 pounds (U.S.D.A. estimate).

<sup>4</sup>"Killing floor offal, inedible meat scraps, and bones (code 2011765)," included with other meat packing plant products, not specified by kind, (code 2011000).

<sup>5</sup>Substantial quantities of fowl and small game are killed and dressed for the commercial market on farms and at retail and wholesale establishments and are not included in these statistics.

<sup>6</sup>Includes small game byproducts (fats, feathers, etc.).



MEAT PRODUCTS

20A-17

Table 6B.—VALUE OF PRODUCT CLASSES SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, BY DIVISIONS AND STATES FOR 1954, AND UNITED STATES TOTALS FOR EARLIER YEARS

(In thousands of dollars. Statistics are shown for selected product classes which are economically significant and production of which is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (Table 2) and they are not miscellaneous or "not specified by type" classes. For each product class, States are listed only if the value of shipments is more than \$1 million and the figure does not disclose individual company information. Additional States which had shipments of more than \$1 million of the individual product classes are listed in footnote 1)

Product class, region, and State <sup>1</sup>	Value of shipments	Product class, region, and State <sup>1</sup>	Value of shipments	Product class, region, and State <sup>1</sup>	Value of shipments
<b>Fresh beef (20111)</b>		<b>Fresh veal (20112)</b>		<b>Fresh lamb and mutton (20113)—</b>	
1954 United States, total <sup>2</sup> (excluding manufacturers' wholesale branches).....	3,853,813	1954 United States, total <sup>2</sup> (excluding manufacturers' wholesale branches).....	395,926	Continued.....	
1953 United States, total.....	3,940,980	1953 United States, total.....	353,185	Middle Atlantic.....	54,393
1952 United States, total.....	4,388,620	1952 United States, total.....	358,564	New York.....	28,599
1951 United States, total.....	4,250,821	1951 United States, total.....	384,085	New Jersey.....	21,239
1950 United States, total.....	3,659,584	1950 United States, total.....	345,451	Pennsylvania.....	4,555
1947 United States, total.....	2,971,372	1947 United States, total.....	373,498	East North Central.....	36,343
1954		1954		Ohio.....	5,210
1954 United States, total (excluding manufacturers' wholesale branches).....	3,853,813	1954 United States, total (excluding manufacturers' wholesale branches).....	395,926	Indiana.....	3,415
New England.....	41,066	New England.....	3,367	Illinois.....	17,750
Maine.....	1,827	Massachusetts.....	2,093	Michigan.....	7,870
New Hampshire.....	5,837	Middle Atlantic.....	45,925	Wisconsin.....	2,097
Vermont.....	1,126	New York.....	20,798	West North Central.....	108,700
Massachusetts.....	20,055	New Jersey.....	11,113	Minnesota.....	17,268
Rhode Island.....	1,963	Pennsylvania.....	14,014	Iowa.....	32,423
Connecticut.....	10,257	East North Central.....	98,645	Missouri.....	13,177
Middle Atlantic.....	364,098	Ohio.....	8,099	Nebraska.....	23,133
New York.....	145,930	Indiana.....	10,353	Kansas.....	10,666
New Jersey.....	80,488	Illinois.....	32,466	South Atlantic.....	3,190
Pennsylvania.....	137,679	Michigan.....	16,305	Maryland.....	1,891
East North Central.....	906,105	Wisconsin.....	31,422	East South Central.....	4,242
Ohio.....	175,653	West North Central.....	73,219	Kentucky.....	3,099
Indiana.....	108,233	Minnesota.....	16,669	West South Central.....	14,363
Illinois.....	417,823	Iowa.....	17,855	Oklahoma.....	2,796
Michigan.....	97,069	Missouri.....	14,338	Texas.....	11,426
Wisconsin.....	107,326	Nebraska.....	4,173	Mountain.....	20,360
West North Central.....	1,308,750	Kansas.....	18,869	Colorado.....	13,194
Minnesota.....	208,884	South Atlantic.....	33,942	Utah.....	6,341
Iowa.....	355,100	Maryland.....	3,828	Pacific.....	50,959
Missouri.....	170,369	Virginia.....	10,331	Washington.....	2,807
Nebraska.....	321,616	North Carolina.....	1,102	Oregon.....	4,238
Kans.....	184,602	Georgia.....	8,760	California.....	43,914
South Atlantic.....	137,340	Florida.....	4,120		
Maryland.....	37,951	East South Central.....	22,056		
Virginia.....	15,304	Kentucky.....	1,841		
West Virginia.....	3,020	Tennessee.....	12,846	<b>Fresh pork (20114)</b>	
North Carolina.....	8,657	Alabama.....	6,419	1954 United States, total <sup>2</sup> (excluding manufacturers' wholesale branches).....	1,928,756
South Carolina.....	5,752	West South Central.....	85,021	1953 United States, total.....	2,005,827
Georgia.....	34,029	Arkansas.....	1,198	1952 United States, total.....	2,072,136
Florida.....	31,938	Louisiana.....	8,336	1951 United States, total.....	2,085,318
East South Central.....	114,642	Okahoma.....	14,834	1950 United States, total.....	1,737,163
Kentucky.....	29,722	Texas.....	60,652	1947 United States, total.....	1,630,150
Tennessee.....	49,959	Mountain.....	5,974	1954	
Alabama.....	20,686	Colorado.....	2,316	1954 United States, total (excluding manufacturers' wholesale branches).....	1,928,756
Mississippi.....	14,274	Arizona.....	1,278	New England.....	47,266
West South Central.....	198,459	Utah.....	1,105	Massachusetts.....	30,017
Arkansas.....	4,779	Pacific.....	27,774	Connecticut.....	12,564
Louisiana.....	9,144	Washington.....	3,137	Middle Atlantic.....	195,240
Oklahoma.....	42,959	Oregon.....	2,866	New York.....	62,249
Texas.....	141,576	California.....	21,770	New Jersey.....	70,557
Mountain.....	230,727			Pennsylvania.....	62,434
Montana.....	5,044	<b>Fresh lamb and mutton (20113)</b>		East North Central.....	522,606
Idaho.....	13,456	1954 United States, total <sup>2</sup> (excluding manufacturers' wholesale branches).....	298,528	Ohio.....	89,982
Colorado.....	160,568	1947 United States, total.....	306,654	Indiana.....	86,101
New Mexico.....	6,297	1954		Illinois.....	242,533
Arizona.....	14,604	1954 United States, total (excluding manufacturers' wholesale branches).....	298,528	Michigan.....	33,613
Utah.....	25,452	New England.....	5,977	Wisconsin.....	70,376
Nevada.....	4,407				
Pacific.....	552,625				
Washington.....	58,132				
Oregon.....	35,454				
California.....	459,038				

See footnotes at end of table.

## MANUFACTURES--INDUSTRY STATISTICS

Table 4B.—VALUE OF PRODUCT CLASSES SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, BY DIVISIONS AND STATES FOR 1954, AND UNITED STATES TOTALS FOR EARLIER YEARS—Continued

Product class, region, and State <sup>1</sup>	Value of shipments	Product class, region, and State <sup>1</sup>	Value of shipments	Product class, region, and State <sup>1</sup>	Value of shipments
<u>Fresh pork (20114)—Continued</u>		<u>Lard (20115)—Continued</u>		<u>Hides, skins, and pelts (20116)—Continued</u>	
West North Central.....	759,580	South Atlantic.....	20,839	Mountain.....	10,157
Minnesota.....	143,849	Maryland.....	5,550	Colorado.....	6,210
Iowa.....	311,763	Virginia.....	4,161	Utah.....	1,962
Missouri.....	101,317	North Carolina.....	1,678	Pacific.....	21,510
South Dakota.....	64,484	South Carolina.....	1,368	Washington.....	1,982
Nebraska.....	80,604	Georgia.....	6,451	Oregon.....	1,798
South Atlantic.....	131,619	Florida.....	1,348	California.....	17,730
Maryland.....	29,721	East South Central.....	12,165	<u>Other meat packing plant products (20117)</u>	
Virginia.....	33,682	Kentucky.....	3,880	1954 United States, total	
West Virginia.....	2,002	Tennessee.....	5,987	(excluding manufacturers'	
North Carolina.....	18,302	Alabama.....	1,917	wholesale branches).....	108,996
South Carolina.....	6,505	West South Central.....	14,641	1947 United States, total.....	44,364
Georgia.....	32,725	Oklahoma.....	3,886	1954	
Florida.....	8,163	Texas.....	10,372	1954 United States, total	
East South Central.....	86,967	Mountain.....	6,502	(excluding manufacturers'	
Kentucky.....	31,779	Colorado.....	3,509	wholesale branches).....	108,996
Tennessee.....	37,288	Utah.....	1,353	New England.....	4,372
Alabama.....	15,226	Pacific.....	16,120	Middle Atlantic.....	10,796
Mississippi.....	2,673	Washington.....	2,585	New York.....	3,422
West South Central.....	53,821	Oregon.....	1,229	New Jersey.....	6,127
Arkansas.....	3,380	California.....	12,305	Pennsylvania.....	1,246
Louisiana.....	2,372	<u>Hides, skins, and pelts (20116)</u>		East North Central.....	42,586
Oklahoma.....	14,400	1954 United States, total <sup>2</sup>		Illinois.....	8,832
Texas.....	33,668	(excluding manufacturers'		West North Central.....	29,455
Mountain.....	30,992	wholesale branches).....	225,522	Minnesota.....	4,565
Montana.....	3,283	1953 United States, total.....	272,089	Iowa.....	7,325
Idaho.....	2,587	1952 United States, total.....	239,515	Nebraska.....	4,104
Colorado.....	15,286	1951 United States, total.....	428,467	Kansas.....	4,806
New Mexico.....	1,250	1950 United States, total.....	343,202	South Atlantic.....	1,249
Arizona.....	2,388	1947 United States, total.....	354,851	East South Central.....	498
Utah.....	5,528	1954		West South Central.....	4,074
Pacific.....	100,666	1954 United States, total		Texas.....	3,126
Washington.....	13,990	(excluding manufacturers'		Mountain.....	3,517
Oregon.....	9,662	wholesale branches).....	225,522	Colorado.....	1,543
California.....	77,013	New England.....	3,143	Pacific.....	12,446
<u>Lard (20115)</u>		Massachusetts.....	1,955	Washington.....	1,112
1954 United States, total <sup>2</sup>		Middle Atlantic.....	24,425	Oregon.....	3,288
(excluding manufacturers'		New York.....	11,589	California.....	8,046
wholesale branches).....	383,163	New Jersey.....	6,090	<u>Pork, processed and cured (20131)</u>	
1953 United States, total.....	332,077	Pennsylvania.....	6,746	1954 United States, total	
1952 United States, total.....	386,856	East North Central.....	50,539	(including manufacturers'	
1951 United States, total.....	533,103	Ohio.....	7,635	wholesale branches).....	1,979,451
1950 United States, total.....	338,868	Indiana.....	5,676	1953 United States, total.....	1,920,930
1947 United States, total.....	522,845	Illinois.....	20,509	1952 United States, total.....	1,900,030
1954		Michigan.....	7,647	1951 United States, total.....	1,895,085
1954 United States, total		Wisconsin.....	9,071	1950 United States, total.....	1,653,293
(excluding manufacturers'		West North Central.....	75,326	1947 United States, total.....	1,814,673
wholesale branches).....	383,163	Minnesota.....	13,938	1954	
New England.....	6,591	Iowa.....	19,179	1954 United States, total	
Massachusetts.....	4,553	Missouri.....	11,259	(excluding manufacturers'	
Middle Atlantic.....	36,675	Nebraska.....	15,238	wholesale branches).....	1,847,332
New York.....	9,864	Kansas.....	10,912	New England.....	58,368
New Jersey.....	15,309	South Atlantic.....	11,024	Massachusetts.....	52,275
Pennsylvania.....	11,501	Maryland.....	1,793	Connecticut.....	4,346
East North Central.....	105,224	Virginia.....	2,136	Middle Atlantic.....	226,353
Ohio.....	17,918	Georgia.....	3,086	New York.....	93,926
Indiana.....	18,644	Florida.....	1,964	New Jersey.....	46,520
Illinois.....	45,322	East South Central.....	9,136	Pennsylvania.....	85,907
Michigan.....	4,264	Kentucky.....	1,858		
Wisconsin.....	19,075	Tennessee.....	4,778		
West North Central.....	164,407	Alabama.....	1,673		
Minnesota.....	31,046	West South Central.....	20,261		
Iowa.....	68,772	Louisiana.....	1,102		
Missouri.....	17,959	Oklahoma.....	3,525		
Nebraska.....	17,524	Texas.....	14,833		
Kansas.....	14,671				

See footnotes at end of table.

## 20A-19

Table 6B.—VALUE OF PRODUCT CLASSES SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, BY DIVISIONS AND STATES FOR 1954,  
AND UNITED STATES TOTALS FOR EARLIER YEARS—Continued

Product class, region, and State <sup>1</sup>	Value of shipments	Product class, region, and State <sup>1</sup>	Value of shipments	Product class, region, and State <sup>1</sup>	Value of shipments
<u>Pork, processed and cured (20131)—continued</u>		<u>Sausage and other prepared meat products, not canned (20132)—Continued</u>		<u>Canned meats, except dog and cat food (20133)—Continued</u>	
East North Central.....	487,010	West North Central.....	192,329	South Atlantic.....	11,801
Ohio.....	96,971	Minnesota.....	53,608	Maryland.....	1,491
Indiana.....	70,743	Iowa.....	50,464	Virginia.....	2,624
Illinois.....	215,917	Missouri.....	30,575	Georgia.....	3,901
Michigan.....	24,570	North Dakota.....	1,597	Florida.....	3,547
Wisconsin.....	78,808	South Dakota.....	9,767	East South Central.....	15,747
West North Central.....	604,600	Nebraska.....	26,424	Kentucky.....	11,178
Minnesota.....	117,568	Kansas.....	19,892	Tennessee.....	2,448
Iowa.....	242,204	South Atlantic.....	112,995	West South Central.....	41,297
Nebraska.....	75,564	Delaware.....	3,551	Texas.....	37,564
Kansas.....	64,786	Maryland.....	30,284	Mountain.....	3,011
South Atlantic.....	153,782	District of Columbia.....	6,308	Pacific.....	10,652
Maryland.....	40,542	Virginia.....	15,335	California.....	9,223
Virginia.....	37,176	West Virginia.....	3,149		
North Carolina.....	5,523	North Carolina.....	14,024		
South Carolina.....	7,591	South Carolina.....	8,083		
Georgia.....	34,559	Georgia.....	17,177		
Florida.....	17,891	Florida.....	15,083	<u>Dried beef and other cured meats, except pork (20134)</u>	
East South Central.....	62,452	East South Central.....	51,892	1954 United States, total (including manufacturers' wholesale branches).....	90,994
Kentucky.....	16,375	Kentucky.....	14,222	1953 United States, total.....	64,326
Tennessee.....	28,297	Tennessee.....	22,546	1952 United States, total.....	79,514
Alabama.....	14,009	Alabama.....	9,419	1951 United States, total.....	81,196
Mississippi.....	3,770	Mississippi.....	5,704	1950 United States, total.....	66,478
West South Central.....	93,337	West South Central.....	49,005	1947 United States, total.....	66,148
Arkansas.....	2,589	Arkansas.....	6,059	1954	
Louisiana.....	2,195	Louisiana.....	7,292	1954 United States, total (including manufacturers' wholesale branches).....	90,994
Oklahoma.....	28,395	Oklahoma.....	8,583	New England.....	3,303
Texas.....	60,157	Texas.....	27,071	Middle Atlantic.....	28,836
Mountain.....	37,150	Mountain.....	22,254	New York.....	19,092
Montana.....	4,007	Montana.....	2,489	New Jersey.....	3,443
Idaho.....	1,243	Idaho.....	2,069	Pennsylvania.....	6,301
Colorado.....	17,980	Colorado.....	9,792	East North Central.....	29,764
New Mexico.....	1,218	New Mexico.....	1,419	Ohio.....	11,048
Arizona.....	3,086	Arizona.....	2,156	Indiana.....	1,744
Utah.....	8,904	Utah.....	3,502	Illinois.....	12,888
Pacific.....	124,279	Pacific.....	103,432	Michigan.....	1,469
Washington.....	18,650	Washington.....	12,940	Wisconsin.....	2,614
Oregon.....	11,260	Oregon.....	7,928	West North Central.....	13,999
California.....	94,368	California.....	82,563	Minnesota.....	3,662
<u>Sausage and other prepared meat products, not canned (20132)</u>		<u>Canned meats, except dog and cat food (20133)</u>		Iowa.....	2,516
1954 United States, total (including manufacturers' wholesale branches).....	1,274,671	1954 United States, total (including manufacturers' wholesale branches).....	583,439	Missouri.....	3,057
1953 United States, total.....	1,359,601	1953 United States, total.....	579,138	Nebraska.....	2,729
1952 United States, total.....	1,410,375	1952 United States, total.....	593,380	South Atlantic.....	5,350
1951 United States, total.....	1,391,890	1951 United States, total.....	676,477	Maryland.....	4,224
1950 United States, total.....	1,162,081	1950 United States, total.....	518,713	East South Central.....	603
1947 United States, total.....	1,022,445	1947 United States, total.....	3480,977	West South Central.....	2,079
1954		1954		Mountain.....	1,230
1954 United States, total (excluding manufacturers' wholesale branches).....	1,187,096	1954 United States, total (including manufacturers' wholesale branches).....	583,439	Pacific.....	5,827
New England.....	64,873	New England.....	11,343	California.....	4,780
Maine.....	3,280	Middle Atlantic.....	30,698	<u>Sausage casings, natural and synthetic (20140)</u>	
New Hampshire.....	2,305	New York.....	19,966	1954 United States, total (including manufacturers' wholesale branches).....	88,341
Massachusetts.....	46,335	New Jersey.....	1,791	1953 United States, total.....	84,026
Connecticut.....	9,891	Pennsylvania.....	8,941	1952 United States, total.....	100,336
Middle Atlantic.....	220,219	East North Central.....	187,560	1951 United States, total.....	105,071
New York.....	95,380	Ohio.....	1,430	1950 United States, total.....	87,587
New Jersey.....	31,624	Indiana.....	23,138	1947 United States, total.....	72,809
Pennsylvania.....	93,214	Illinois.....	147,023	1954	
East North Central.....	370,096	Michigan.....	1,136	1954 United States, total (including manufacturers' wholesale branches).....	88,341
Ohio.....	82,266	Wisconsin.....	14,833		
Indiana.....	45,837	West North Central.....	271,329		
Illinois.....	119,783	Minnesota.....	91,671		
Michigan.....	64,030	Iowa.....	91,841		
Wisconsin.....	58,180	Nebraska.....	45,370		
		Kansas.....	19,605		

See footnotes at end of table.



## MANUFACTURES--INDUSTRY STATISTICS

Table 6B.—VALUE OF PRODUCT CLASSES SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, BY DIVISIONS AND STATES FOR 1954, AND UNITED STATES TOTALS FOR EARLIER YEARS—Continued

Product class, region, and State <sup>1</sup>	Value of shipments	Product class, region, and State <sup>1</sup>	Value of shipments	Product class, region, and State <sup>1</sup>	Value of shipments
<u>Seausage casings, natural and synthetic (20140)—Continued</u>		<u>Chickens and fowl (20151)<sup>4</sup>—Continued</u>		<u>Dressed turkeys (20153)—Continued</u>	
New England.....	334	West North Central.....	84,637	East North Central.....	21,028
Middle Atlantic.....	9,729	Minnesota.....	14,235	Ohio.....	7,591
New York.....	6,498	Iowa.....	20,506	Indiana.....	3,476
New Jersey.....	2,488	Missouri.....	27,743	Illinois.....	2,643
East North Central.....	51,765	North Dakota.....	1,102	Michigan.....	3,465
Illinois.....	46,932	South Dakota.....	1,977	Wisconsin.....	3,852
Wisconsin.....	3,200	Nebraska.....	14,845	West North Central.....	55,977
West North Central.....	16,993	Kansas.....	4,226	Minnesota.....	17,456
Minnesota.....	4,534	South Atlantic.....	320,758	Iowa.....	19,193
Iowa.....	5,445	Delaware.....	50,434	Missouri.....	3,717
Missouri.....	1,423	Maryland.....	54,336	North Dakota.....	1,647
Nebraska.....	3,734	Virginia.....	37,570	South Dakota.....	2,348
Kansas.....	1,022	West Virginia.....	7,067	Nebraska.....	7,126
South Atlantic.....	1,975	North Carolina.....	43,203	Kansas.....	4,489
East South Central.....	340	South Carolina.....	2,777	South Atlantic.....	35,972
West South Central.....	1,087	Georgia.....	120,281	Delaware.....	1,799
Mountain.....	734	Florida.....	5,087	Maryland.....	1,195
Pacific.....	5,382	East South Central.....	83,629	Virginia.....	17,428
California.....	4,213	Kentucky.....	6,421	West Virginia.....	3,061
<u>Chickens and fowl (20151)<sup>4</sup></u>		Tennessee.....	12,213	North Carolina.....	8,547
1954 United States, total.....	399,317	Alabama.....	35,167	East South Central.....	1,406
1954		Mississippi.....	29,828	West South Central.....	18,099
New England.....	64,132	West South Central.....	112,923	Arkansas.....	5,016
Maine.....	30,747	Arkansas.....	40,152	Oklahoma.....	3,334
Massachusetts.....	11,543	Louisiana.....	4,229	Texas.....	9,499
Connecticut.....	13,668	Oklahoma.....	9,471	Mountain.....	2,223
Middle Atlantic.....	75,391	Texas.....	59,069	Pacific.....	60,840
New York.....	20,458	Mountain.....	5,222	Washington.....	4,737
New Jersey.....	7,046	Pacific.....	63,997	Oregon.....	8,447
Pennsylvania.....	47,885	Washington.....	10,339	California.....	47,655
East North Central.....	88,627	Oregon.....	7,743	<u>Other dressed poultry and small game (20154)</u>	
Ohio.....	27,755	California.....	45,914	1954 United States, total.....	25,727
Indiana.....	21,882	<u>Dressed turkeys (20153)</u>		1947 United States, total.....	26,896
Illinois.....	21,404	1954 United States, total.....	203,836	1954	
Michigan.....	9,244	1947 United States, total.....	97,339	Northeast.....	16,556
Wisconsin.....	8,340	1954		New York.....	11,436
		New England.....	1,755	East North Central.....	1,998
		Maine.....	1,280	West North Central.....	3,434
		Middle Atlantic.....	6,535	Missouri.....	2,378
		New York.....	1,512	South Atlantic.....	453
		Pennsylvania.....	4,551	East South Central.....	122
				West.....	2,578
				California.....	2,215

Note: The figures shown for 1950 to 1953 are sample estimates obtained from the Annual Survey of Manufactures for those years. Since the estimates are based on a sample they are subject to sampling variability, that is, they are not the same as figures which would have been obtained if complete censuses had been taken for those years. Measures of the sampling variability (standard errors) of the estimated total value of shipments of each product class are shown in the Annual Survey of Manufactures publications. Also shown are the standard errors of the relative change in shipments between some consecutive Annual Survey years which are the more significant measures when the series is studied for trend.

<sup>1</sup>For the specified product classes, shipments of over \$1 million were reported for the States listed but the exact figures are withheld to avoid disclosure of individual company figures: 20111, North Dakota and South Dakota; 20112, North Dakota and District of Columbia; 20113, Massachusetts, North Dakota, and South Dakota; 20114, Rhode Island, North Dakota, and Kansas; 20115, Connecticut, North Dakota, and South Dakota; 20116, North Dakota, and South Dakota; 20117, Massachusetts, Ohio, Michigan, Wisconsin, Missouri, South Dakota, and Montana; 20131, South Dakota, North Dakota, Missouri, Delaware, District of Columbia, and West Virginia; 20132, Vermont; 20133, New Hampshire, Connecticut, Massachusetts, Missouri, South Dakota, Mississippi, Oklahoma, and Colorado; 20134, Massachusetts and Kansas; 20140, Virginia; 20151, New Hampshire and Colorado; 20153, South Carolina, Georgia, and Utah; 20154, Connecticut; 20110, Wyoming.

<sup>2</sup>For 1953 and prior years, separate manufacturers reports were submitted covering the manufacture of prepared meats at manufacturers' wholesale branches. For 1954, these establishments were classified in the wholesale trade industries, but number of production workers, cost of materials consumed in the manufacture of prepared meats and quantity and value of shipments of prepared meats manufactured on the premises were reported separately.

<sup>3</sup>Includes an indeterminate value for canned products containing less than 20 percent meat.

<sup>4</sup>Only combined totals are available for previous years; product classes 20151, 20152, 20153, and 20154: 1953, \$767,694 thousand; 1952, \$739,590 thousand; 1951, \$746,378 thousand; 1950, \$575,928 thousand; and 1947, product classes 20151 and 20152, \$304,417 thousand.

<sup>5</sup>Includes value of byproducts (fat, feathers, etc.) from small game dressing.

## MEAT PRODUCTS

20A-21

Table 7A.—LIVESTOCK SLAUGHTERED AND OTHER MATERIALS USED IN THE MEAT PACKING INDUSTRY: 1954 AND 1947

Code	Description of materials	1954				1947			
		Number of head	Delivered cost (\$1,000)	Live weight (1,000 lbs)	Chilled dressed weight (1,000 lbs)	Number of head	Delivered cost (\$1,000)	Live weight (1,000 lbs)	Chilled dressed weight (1,000 lbs)
	INDUSTRY 2011—MEAT PACKING PLANTS								
	Materials, containers, and supplies, total.....	xxx	8,458,758	xxx	xxx	xxx	7,961,274	xxx	xxx
011511	Cattle.....	21,607,392	3,436,874	20,713,315	11,256,590	18,260,251	2,986,313	16,427,945	8,591,108
011515	Calves.....	9,253,696	349,379	2,117,103	1,212,883	10,170,309	400,419	2,084,603	1,177,249
011521	Sheep and lambs.....	15,350,381	282,253	1,487,799	702,594	17,253,990	320,309	1,622,543	742,905
011525	Hogs.....	57,040,617	3,130,533	14,001,593	9,728,470	51,678,047	3,154,899	12,930,703	9,089,433
201111	Meats (fresh or cured), hides and natural casings.....	xxx	608,282	xxx	xxx	xxx	1,099,334	xxx	xxx
970000	All other materials, ingredients, containers, and supplies, including materials etc., not specified by kind <sup>1</sup> .....	xxx	651,437	xxx	xxx				

Note: These statistics represent the year ending October 31, rather than the calendar year, since companies accounting for a high proportion of the total reported on an October 31 fiscal year basis. The differences between fiscal and calendar year slaughter for 1954 were negligible except for hogs, for which the calendar year total exceeded the fiscal year by a little over 2 percent. The differences were negligible for all species for 1947. Department of Agriculture estimates of total commercial slaughter (excluding farm slaughter) for 1954 were as follows: cattle, 25,016 thousand head; calves, 12,746 thousand head; sheep and lambs, 15,920 thousand head; hogs, 63,551 thousand (year ending October 31). The differences between these figures and the corresponding Census totals in this table are accounted for by (1) establishments classified in Industry 2011 which did not report livestock slaughter (see discussion of "materials not specified by kind" in footnote), (2) establishments classified in wholesale and retail trade, which were not included in the Census of Manufactures, such as locker plants, retail butcher shops, and wholesale meat jobbers, (3) establishments with no paid employees, which were excluded from Census coverage, (4) establishments not subject to Social Security payments, such as municipal abattoirs, and (5) manufacturing establishments in which slaughtering was not the primary activity, and which were consequently classified in industries other than 2011 (principally Industry 2013; see Table 7B for that industry).

xxx Not applicable.

<sup>1</sup>"Materials, not specified by kind," includes the total cost of livestock and other materials used by small establishments reporting on "short" forms (see "Introduction") and by a few establishments reporting on standard forms for which the detailed figures on livestock slaughter could not be obtained. "Materials, not specified by kind," as distinguished from "All other materials," could not be determined exactly for 1954 but is believed to be between 2 and 5 percent of the total cost of materials, parts, containers, and supplies. For 1947, "Materials, not specified by kind," amounted to 2 percent of the total.

## MANUFACTURES--INDUSTRY STATISTICS

Table 7B.--SELECTED MATERIALS CONSUMED BY THE PREPARED MEATS INDUSTRY: 1954

(All figures in thousands)

Code	Description of materials	Animals slaughtered and consumption of other materials			
		Number of head	Delivered cost (\$1,000)	Live weight (1,000 lbs)	Chilled dressed weight (1,000 lbs)
	INDUSTRY 2013--PREPARED MEATS				
	Materials, containers, and supplies, total.....	xxx	1,074,672	xxx	xxx
011511	Cattle.....	70,829	8,820	59,800	32,101
011515	Calves.....	27,363	1,109	6,497	3,691
011521	Sheep and lambs.....	8,429	184	824	434
011525	Hogs.....	229,842	12,789	69,185	50,523
201111	Meats (fresh or cured), and natural casings.....	xxx	839,883	xxx	xxx
970000	All other materials, ingredients, containers and supplies, including materials, etc., not specified by kind.....	xxx	211,887	xxx	xxx

Note: The livestock data in this table indicate the extent of slaughtering activity in establishments primarily engaged in the processing of purchased meats. Establishments in which slaughtering was the major activity were classified in Industry 2011, even though principal products of the plant were meat preparations, such as sausage.

xxx Not applicable.

Table 7C.--POULTRY KILLED AND OTHER MATERIALS CONSUMED IN INDUSTRY 2015, POULTRY DRESSING PLANTS: 1954 AND 1947

Code	Description of materials	Unit of measure	1954			1947		
			Quantity	Delivered cost (\$1,000)	Live weight (1,000 lbs)	Quantity	Delivered cost (\$1,000)	Live weight (1,000 lbs)
	INDUSTRY 2015--POULTRY DRESSING, WHOLESALE							
	Materials, containers and supplies, total.....		xxx	1,045,403	xxx	xxx	411,368	xxx
	Poultry killed:							
011531	Young chickens, 2 to 4 lbs., live weight (include commercial broilers).....	Thousand birds.	791,037	565,352	2,332,720	198,227	217,161	742,715
011533	Hens (or fowl) and other chickens.....	....do.....	96,165	99,277	467,952			
011535	Turkeys.....	....do.....	35,585	148,468	501,822			
011539	Other poultry and small game (include ducks, geese, rabbits, etc.).....		(NA)	13,201	52,315	xxx	122,422	xxx
011541	Other materials used:							
	Shell eggs.....	Case (30 dozen)	6,606,704	69,429	xxx			
970000	All other materials, ingredients, containers and supplies, including materials, etc., not specified by kind.....		xxx	149,676	...			

xxx Not applicable.

NA Not available.



## MEAT PRODUCTS

20A-23

Table 7D.—NUMBER, WEIGHT, AND COST OF ANIMALS SLAUGHTERED IN INDUSTRY 2011, MEAT PACKING PLANTS, BY DIVISIONS AND STATES: 1954

Division and State	Cattle (Code 011511)				Calves (Code 011515)			
	Number	Delivered cost	Live weight	Chilled dressed weight	Number	Delivered cost	Live weight	Chilled dressed weight
		(\$1,000)	(1,000 lbs.)	(1,000 lbs.)		(\$1,000)	(1,000 lbs.)	(1,000 lbs.)
United States, total.....	21,607,392	3,436,874	20,713,315	11,256,590	9,253,696	349,379	2,117,103	1,212,883
Northeast.....	1,606,527	316,906	1,614,714	894,510	1,285,246	42,805	228,539	130,328
New England.....	213,301	29,666	207,892	103,157	188,413	3,501	25,475	14,540
Maine.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
New Hampshire.....	25,000	4,791	23,750	13,062	(D)	(D)	(D)	(D)
Vermont.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Massachusetts.....	86,788	12,747	84,218	42,468	146,893	2,582	18,230	10,229
Rhode Island.....	13,293	1,671	12,973	6,195	5,818	102	754	427
Connecticut.....	73,120	9,228	74,797	35,838	23,088	374	2,592	1,676
Middle Atlantic.....	1,393,226	287,240	1,406,822	791,353	1,096,833	39,304	203,064	115,788
New York.....	450,280	102,237	489,871	273,365	436,708	17,302	91,632	51,461
New Jersey.....	303,966	74,096	336,298	195,863	204,964	10,256	47,836	27,616
Pennsylvania.....	638,980	110,907	580,653	322,125	455,161	11,746	63,596	36,711
North Central.....	12,320,783	2,051,762	11,875,522	6,505,980	4,761,611	150,372	911,028	522,591
East North Central.....	4,943,029	810,715	4,731,272	2,567,428	2,913,012	83,792	491,177	287,897
Ohio.....	968,860	160,288	905,591	490,452	180,320	6,340	31,265	18,087
Indiana.....	616,733	92,497	554,526	298,100	212,102	8,783	49,303	28,157
Illinois.....	2,081,532	380,062	2,018,540	1,132,476	798,365	27,105	167,704	97,999
Michigan.....	557,781	80,972	521,717	276,816	425,816	13,355	80,345	45,940
Wisconsin.....	718,123	96,896	730,898	369,584	1,296,409	28,209	162,560	97,714
West North Central.....	7,377,754	1,241,047	7,144,250	3,938,552	1,848,599	66,580	419,851	234,694
Minnesota.....	1,344,790	210,083	1,361,465	730,088	566,209	15,970	97,714	54,805
Iowa.....	1,834,056	335,890	1,808,517	1,014,897	518,720	15,381	90,700	50,505
Missouri.....	977,825	154,784	882,743	487,381	324,163	13,016	82,874	45,346
North Dakota.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
South Dakota.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Nebraska.....	1,720,760	309,684	1,669,859	937,499	72,978	3,806	25,647	14,112
Kansas.....	1,107,949	168,168	1,033,843	558,979	337,375	17,274	113,794	65,443
South.....	3,863,831	405,791	3,056,045	1,544,690	2,630,433	129,840	816,157	466,650
South Atlantic.....	1,167,727	124,552	896,755	452,123	766,828	28,624	183,974	99,419
Delaware.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Maryland.....	194,000	34,095	191,937	101,903	106,473	3,145	16,629	9,310
District of Columbia.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Virginia.....	114,356	14,933	101,452	52,140	227,695	9,417	49,434	27,406
West Virginia.....	24,631	2,924	20,854	10,453	5,573	222	1,128	630
North Carolina.....	76,400	7,625	60,495	29,505	21,705	679	4,171	2,344
South Carolina.....	59,085	4,777	40,596	19,501	14,515	381	3,369	1,617
Georgia.....	410,431	30,861	270,277	128,143	183,488	7,641	57,506	30,482
Florida.....	283,696	28,831	206,456	108,273	99,712	3,241	28,219	15,129
East South Central.....	974,088	103,757	749,804	378,477	599,023	22,885	148,831	81,882
Kentucky.....	203,551	26,103	176,537	91,924	34,946	1,561	8,349	4,751
Tennessee.....	439,011	47,164	345,242	174,841	415,362	12,558	82,408	45,829
Alabama.....	210,806	18,098	146,416	72,330	111,761	6,218	41,703	22,668
Mississippi.....	120,720	12,392	81,609	39,382	36,954	2,548	16,371	8,634
West South Central.....	1,722,016	177,482	1,409,486	714,090	1,264,582	78,331	483,352	285,349
Arkansas.....	53,338	4,264	55,892	26,677	13,176	1,005	6,101	3,316
Louisiana.....	91,646	5,997	65,223	31,012	145,464	4,507	6,541	24,784
Oklahoma.....	343,273	40,314	290,121	151,518	213,352	14,676	93,835	53,699
Texas.....	1,233,759	126,907	998,250	504,883	892,590	58,143	376,875	203,550
West.....	3,816,251	662,415	4,167,034	2,311,410	576,406	26,362	161,379	93,314
Mountain.....	1,175,318	205,161	1,088,214	624,875	81,774	4,743	27,147	15,017
Montana.....	35,685	4,956	32,683	17,566	2,923	165	952	613
Idaho.....	63,660	9,466	59,803	32,990	5,649	299	1,638	968
Wyoming.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Colorado.....	757,067	146,961	727,817	428,963	36,793	1,984	11,768	6,251
New Mexico.....	47,566	4,716	30,050	16,188	(D)	(D)	(D)	(D)
Arizona.....	84,687	12,156	72,445	40,665	13,771	1,089	6,050	3,328
Utah.....	157,005	22,930	140,753	74,942	13,972	682	3,854	2,253
Nevada.....	(D)	(D)	(D)	(D)	3,425	223	1,228	693
Pacific.....	2,640,933	457,254	3,078,820	1,686,535	494,632	21,619	134,232	78,297
Washington.....	305,606	51,219	281,854	149,598	40,041	2,267	12,165	6,729
Oregon.....	203,992	31,672	194,297	98,452	41,493	2,083	13,242	7,346
California.....	2,131,335	374,363	2,602,669	1,438,485	413,098	17,269	108,825	64,222

See footnotes at end of table.

## MANUFACTURES—INDUSTRY STATISTICS

Table 7D.—NUMBER, WEIGHT, AND COST OF ANIMALS SLAUGHTERED IN INDUSTRY 2011, MEAT PACKING PLANTS, BY DIVISIONS AND STATES: 1954—Continued

Division and State	Sheep and lamb (Code 011521)				Hogs (Code 011525)			
	Number	Delivered cost (\$1,000)	Live weight (1,000 lbs.)	Chilled dressed weight (1,000 lbs.)	Number	Delivered cost (\$1,000)	Live weight (1,000 lbs.)	Chilled dressed weight (1,000 lbs.)
United States, total.....	15,350,381	282,253	1,487,799	702,594	57,040,617	3,130,533	14,001,593	9,728,470
Northeast.....	2,762,295	56,422	255,083	117,448	5,297,782	273,687	1,175,483	817,449
New England.....	317,917	5,424	28,377	12,863	776,233	45,089	189,767	129,908
Maine.....	(D)	(D)	(D)	(D)	5,917	320	1,386	1,068
Vermont.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Massachusetts.....	(D)	(D)	(D)	(D)	402,533	23,340	99,647	67,774
Rhode Island.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Connecticut.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Middle Atlantic.....	2,444,378	50,998	226,706	104,585	4,521,549	228,598	985,716	687,541
New York.....	1,270,285	26,089	115,188	53,594	1,136,818	56,575	247,533	175,224
New Jersey.....	1,031,313	21,684	97,069	44,084	1,435,960	71,966	303,951	210,637
Pennsylvania.....	142,780	3,225	14,449	6,907	1,948,771	100,057	434,232	301,680
North Central.....	7,597,593	140,845	708,698	351,984	39,666,359	2,234,759	10,060,960	7,023,167
East North Central.....	1,786,420	32,012	170,713	82,751	15,201,452	820,899	3,682,707	2,607,160
Ohio.....	220,445	3,934	19,158	9,297	3,180,451	165,268	717,237	510,028
Indiana.....	131,728	2,279	12,319	5,954	2,893,739	156,443	699,977	494,216
Illinois.....	860,596	15,511	83,929	41,078	5,813,894	318,329	1,470,524	1,042,188
Michigan.....	380,147	6,875	37,094	17,880	721,528	37,503	161,563	112,504
Wisconsin.....	193,504	3,413	18,213	8,542	2,591,840	143,356	633,406	448,224
West North Central.....	5,811,173	108,833	537,985	269,233	24,464,907	1,413,860	6,378,253	4,416,007
Minnesota.....	921,158	17,147	89,212	42,279	5,041,261	276,109	1,248,920	874,362
Iowa.....	1,704,427	31,698	165,681	79,200	9,677,858	594,418	2,702,985	1,871,466
Missouri.....	707,588	13,390	68,445	33,313	2,991,945	164,183	715,315	498,697
North Dakota.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
South Dakota.....	(D)	(D)	(D)	(D)	1,994,897	112,050	514,382	342,656
Nebraska.....	1,218,993	23,925	122,039	57,913	2,646,295	151,058	682,157	475,058
Kansas.....	599,099	10,368	52,406	26,048	(D)	(D)	(D)	(D)
South.....	1,363,750	17,132	130,559	55,048	8,598,685	428,941	1,888,803	1,306,058
South Atlantic.....	115,030	2,112	9,969	5,141	4,142,939	196,723	858,897	593,448
Delaware.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Maryland.....	74,030	1,275	6,228	3,426	804,066	41,699	172,674	126,916
District of Columbia.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Virginia.....	12,994	263	1,282	538	1,104,988	55,045	239,422	159,891
West Virginia.....	(D)	(D)	(D)	(D)	59,033	2,849	12,848	9,319
North Carolina.....	(D)	(D)	(D)	(D)	473,932	21,437	91,481	62,843
South Carolina.....	(D)	(D)	(D)	(D)	269,277	12,352	55,779	37,196
Georgia.....	604	9	53	25	1,150,100	51,338	229,848	156,360
Florida.....	(D)	(D)	(D)	(D)	280,047	11,922	56,411	40,578
East South Central.....	242,491	3,758	20,371	9,596	2,443,228	125,438	546,299	378,636
Kentucky.....	(D)	(D)	(D)	(D)	762,811	40,137	172,062	120,019
Tennessee.....	59,813	833	4,751	2,271	1,095,847	56,930	247,826	170,545
Alabama.....	(D)	(D)	(D)	(D)	458,015	(D)	99,029	69,087
Mississippi.....	(D)	(D)	(D)	(D)	126,555	6,314	27,382	18,985
West South Central.....	1,006,229	11,262	100,219	40,311	2,012,518	106,780	483,607	333,974
Arkansas.....	(D)	(D)	(D)	(D)	119,083	6,072	40,592	29,050
Louisiana.....	(D)	(D)	(D)	(D)	46,366	2,088	9,868	6,605
Oklahoma.....	(D)	(D)	(D)	(D)	618,225	34,252	147,698	101,933
Texas.....	(D)	(D)	(D)	(D)	1,228,844	64,368	285,449	196,386
West.....	3,626,743	67,854	393,459	178,114	3,477,791	193,146	876,347	581,796
Mountain.....	1,104,855	19,540	112,125	53,886	1,147,244	63,207	268,373	186,513
Montana.....	(D)	(D)	(D)	(D)	141,409	7,427	31,414	20,998
Idaho.....	5,605	88	576	282	93,542	4,745	20,733	14,254
Wyoming.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Colorado.....	726,029	13,124	73,608	35,539	532,882	30,664	129,531	90,242
New Mexico.....	17,126	157	1,823	877	71,911	2,329	16,544	11,591
Arizona.....	(D)	(D)	(D)	(D)	82,665	4,543	18,622	12,702
Utah.....	329,449	5,724	32,711	15,869	215,305	13,012	49,694	35,284
Nevada.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Pacific.....	2,521,888	48,314	281,334	124,228	2,330,547	129,939	607,974	395,283
Washington.....	141,513	2,486	14,548	6,985	429,179	22,882	96,474	65,719
Oregon.....	242,056	4,297	23,165	11,215	186,780	10,303	40,601	28,858
California.....	2,138,319	41,531	243,621	106,028	1,714,588	96,754	470,899	300,706

D Withheld to avoid disclosing figures for individual companies.

## MEAT PRODUCTS

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Table 7E.--NUMBER, WEIGHT, AND COST OF POULTRY KILLED IN INDUSTRY 2015, POULTRY DRESSING PLANTS, BY DIVISIONS AND STATES: 1954

Division and State	Chickens and fowl (Codes 011531-33)			Turkeys (Code 011535)		
	Quantity	Delivered cost	Live weight	Quantity	Delivered cost	Live weight
	(1,000)	(\$1,000)	(1,000 lbs.)	(1,000)	(\$1,000)	(1,000 lbs.)
Industry, total.....	887,202	664,629	2,800,672	35,587	148,468	501,822
Northeast.....	131,565	107,983	452,763	1,907	6,642	20,502
New England.....	65,608	53,273	230,111	581	1,453	5,002
Maine.....	33,023	24,840	109,812	521	1,201	4,010
New Hampshire.....	(D)	(D)	(D)	(D)	(D)	(D)
Vermont.....	(D)	(D)	(D)	...	...	...
Massachusetts.....	13,541	11,823	49,400	39	140	664
Rhode Island.....	...	...	...	...	...	...
Connecticut.....	14,133	10,868	48,315	(D)	(D)	(D)
Middle Atlantic.....	65,957	54,710	222,652	1,326	5,189	15,500
New York.....	15,317	14,493	54,793	289	1,257	3,836
New Jersey.....	7,287	5,444	27,858	50	324	720
Pennsylvania.....	43,353	34,772	140,001	987	3,608	10,944
North Central.....	142,560	110,346	488,401	12,806	49,394	168,461
East North Central.....	74,267	59,000	240,314	3,077	14,945	49,500
Ohio.....	24,761	18,578	77,561	1,019	5,107	16,773
Indiana.....	20,658	15,344	61,692	441	2,425	6,981
Illinois.....	15,793	13,647	59,876	321	1,649	4,628
Michigan.....	6,716	6,985	24,531	569	2,598	9,477
Wisconsin.....	6,339	4,445	16,654	727	3,165	11,641
West North Central.....	68,293	51,345	248,087	9,729	34,449	118,961
Minnesota.....	11,023	9,553	52,043	4,013	11,847	41,338
Iowa.....	15,540	12,806	62,968	3,432	12,832	41,664
Missouri.....	24,467	17,468	75,856	359	1,813	6,218
North Dakota.....	(D)	(D)	(D)	(D)	(D)	(D)
South Dakota.....	(D)	(D)	(D)	(D)	(D)	(D)
Nebraska.....	14,050	8,895	44,466	(D)	(D)	(D)
Kansas.....	2,527	1,985	8,929	433	2,313	7,504
South.....	564,840	402,602	1,688,104	10,177	41,719	144,584
South Atlantic.....	350,628	252,430	1,062,897	6,921	28,601	97,767
Delaware.....	55,414	41,716	172,649	524	1,614	4,902
Maryland.....	52,464	41,890	167,779	(D)	(D)	(D)
District of Columbia.....	...	...	...	...	...	...
Virginia.....	40,176	28,329	119,176	3,898	14,521	48,558
West Virginia.....	7,342	5,466	23,468	(D)	(D)	(D)
North Carolina.....	45,022	31,963	132,878	1,264	6,518	25,909
South Carolina.....	3,226	1,746	10,159	318	2,125	6,517
Georgia.....	141,419	97,336	419,000	157	769	2,367
Florida.....	5,565	3,982	17,788	(D)	(D)	(D)
East South Central.....	93,266	64,922	272,549	200	943	2,978
Kentucky.....	2,555	2,061	8,230	(D)	(D)	(D)
Tennessee.....	13,384	10,433	40,543	(D)	(D)	(D)
Alabama.....	43,196	28,767	124,745	72	321	1,039
Mississippi.....	34,131	23,661	99,031	25	120	353
West South Central.....	120,946	85,249	352,658	3,056	12,175	43,839
Arkansas.....	46,912	30,948	133,713	1,199	3,651	14,979
Louisiana.....	4,062	2,428	10,084	(D)	(D)	(D)
Oklahoma.....	9,106	6,614	27,095	(D)	(D)	(D)
Texas.....	60,866	45,258	181,766	1,278	6,033	20,527
West.....	48,237	43,698	171,404	10,697	50,713	168,275
Mountain.....	2,833	2,214	8,919	556	2,439	6,901
Montana.....	...	...	...	...	...	...
Idaho.....	...	...	...	...	...	...
Wyoming.....	(D)	(D)	(D)	(D)	(D)	(D)
Colorado.....	(D)	(D)	(D)	(D)	(D)	(D)
New Mexico.....	...	...	...	...	...	...
Arizona.....	(D)	(D)	(D)	...	...	...
Utah.....	(D)	(D)	(D)	(D)	(D)	(D)
Nevada.....	...	...	...	...	...	...
Pacific.....	45,404	41,483	162,485	10,141	48,274	161,374
Washington.....	7,580	6,062	25,911	626	3,343	10,858
Oregon.....	7,122	5,796	23,782	1,439	6,861	18,310
California.....	30,702	29,625	112,792	8,076	38,070	132,206

D Withheld to avoid disclosing figures for individual companies.



## MANUFACTURES—INDUSTRY STATISTICS

Table 9.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY INDUSTRY SPECIALIZATION AND PRIMARY PRODUCT CLASS SPECIALIZATION, FOR THE UNITED STATES: 1954

This table presents selected statistics for establishments classified according to their degree of specialization in products primary to the industry. The establishments are classified in two ways: (1) by industry specialization—the degree of specialization in all primary products of the industry; and (2) by product-class specialization—the degree of specialization in the largest product class of the establishment. The degree of "industry specialization" for an establishment represents the ratio of its primary product shipments to its total product shipments, primary and secondary. The degree of "product-class specialization" for an establishment represents the ratio of its largest product class shipments to its total product shipments, primary and secondary. Data are not shown for some industries, product classes, and specialization ranges for a variety of reasons, consequently, detailed figures frequently do not add to the totals. See Introduction for detailed explanation)

Ind. or product class No.	Industry or product class by percent of specialization	Establishments, number	All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
2111	MEAT PACKING PLANTS (entire industry).....	2,367	220,194	942,970	167,815	354,779	687,878	1,394,486	8,511,201	9,905,687
	Establishments with:									
	90% or more specialization.....	2,095	216,117	928,144	164,540	348,039	676,568	1,360,630	8,443,890	9,804,519
	75-89% specialization.....	45	961	3,366	745	1,551	2,537	7,537	23,363	30,901
	50-74% specialization.....	23	975	3,944	760	1,676	2,918	5,767	12,931	18,698
	All other <sup>1</sup> .....	204	2,139	7,515	1,768	3,511	5,853	20,551	31,016	51,568
21111	Fresh beef:									
	All establishments specializing in product class	1,139	114,796	496,011	87,428	185,552	361,379	675,925	4,951,483	5,627,408
	Establishments with:									
	90% or more specialization.....	325	10,914	54,772	8,561	18,883	38,614	116,129	1,010,182	1,126,312
	75-89% specialization.....	167	4,835	22,353	3,584	7,945	15,229	43,164	356,343	404,508
	50-74% specialization.....	323	16,017	64,148	12,313	26,650	47,209	104,361	718,169	822,530
	Less than 50% specialization.....	324	83,029	354,737	62,969	132,072	260,327	407,270	2,866,787	3,274,058
20112	Fresh veal:									
	All establishments specializing in product class	102	3,572	14,167	2,695	5,928	9,524	27,061	143,482	170,544
	Establishments with:									
	90% or more specialization.....	22	301	1,255	250	518	907	2,897	15,052	17,949
	75-89% specialization.....	15	205	733	158	261	360	2,491	9,785	12,277
	50-74% specialization.....	35	914	4,175	658	1,486	2,717	9,363	56,149	65,513
	Less than 50% specialization.....	30	2,150	7,453	1,628	3,661	5,539	12,309	62,495	74,805
20113	Fresh lamb and mutton:									
	All establishments specializing in product class	18	373	1,890	268	579	1,234	4,006	30,109	34,116
	Establishments with:									
	90% or more specialization.....	6	22	79	16	36	58	142	1,438	1,581
20114	Fresh pork:									
	All establishments specializing in product class	230	38,651	166,071	30,061	63,530	123,586	238,048	1,587,932	1,825,980
	Establishments with:									
	90% or more specialization.....	25	1,319	5,274	1,114	2,399	4,214	10,581	111,941	122,522
	75-89% specialization.....	19	977	3,999	712	1,549	2,891	7,289	38,543	45,833
	50-74% specialization.....	58	5,431	23,020	4,170	9,068	16,466	34,616	266,386	301,003
	Less than 50% specialization.....	128	30,923	133,777	24,065	50,513	100,015	185,560	1,171,060	1,356,621
20116	Hides, skins, and pelts: <sup>2</sup>									
	All establishments specializing in product class	33	426	1,326	336	691	976	2,801	7,164	9,966
	Establishments with:									
	90% or more specialization.....	15	128	397	95	206	280	833	4,552	5,386
	75-89% specialization.....	6	119	379	95	182	287	731	659	1,390
	50-74% specialization.....	4	51	133	45	90	113	227	214	442
	Less than 50% specialization.....	9	128	417	100	211	295	1,010	1,737	2,748
20111	Other meat packing plant products:									
	All establishments specializing in product class	50	1,627	7,053	1,154	2,501	4,543	36,805	42,112	78,918
	Establishments with:									
	90% or more specialization.....	33	278	1,009	207	450	722	2,001	6,770	8,771
	75-89% specialization.....	8	83	301	70	134	248	602	2,111	2,713
20131	Pork processed and cured:									
	All establishments specializing in product class	83	40,344	173,911	30,853	65,166	127,540	236,170	1,287,252	1,523,422
	Establishments with:									
	50% or more specialization.....	13	1,232	3,946	1,038	2,128	3,046	7,851	39,439	47,290
	Less than 50% specialization.....	70	39,112	169,965	29,815	63,037	124,493	228,319	1,247,769	1,476,088
20132	Sausage and other prepared meat products, not canned: <sup>3</sup>									
	All establishments specializing in product class	137	10,746	40,818	7,589	16,644	26,732	62,569	229,462	292,032
	Establishments with:									
	90% or more specialization.....	13	202	670	159	387	485	1,255	3,652	4,908
	75-89% specialization.....	8	181	660	137	283	424	867	3,339	4,206
	50-74% specialization.....	31	2,269	8,529	1,681	3,693	5,794	13,359	45,210	58,570
	Less than 50% specialization.....	85	8,094	30,958	5,611	12,280	20,029	47,086	177,260	224,347
2013	PREPARED MEATS (entire industry).....	1,316	44,997	186,939	33,767	70,034	124,327	330,312	1,085,069	1,415,382
	Establishments with:									
	90% or more specialization.....	983	29,324	122,864	22,230	46,238	81,877	218,347	624,624	842,973
	75-89% specialization.....	76	5,785	23,608	4,286	8,897	15,511	44,390	143,478	187,869
	50-74% specialization.....	105	6,498	27,820	4,579	9,432	17,804	45,930	212,545	258,475
	All other <sup>1</sup> .....	152	3,389	12,645	2,670	5,465	9,132	21,642	104,419	126,063

See footnote at end of table.

## MEAT PRODUCTS

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Table 8.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY INDUSTRY SPECIALIZATION AND PRIMARY PRODUCT CLASS SPECIALIZATION, FOR THE UNITED STATES: 1954—Continued

Ind. or product class No.	Industry or product class by percent of specialization	Establishments, number	All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
2013	PREPARED MEATS—Continued									
20131	Pork, processed and cured:									
	All establishments specializing in product class	166	11,109	45,578	8,284	17,114	31,217	77,975	367,425	445,401
	Establishments with:									
	90% or more specialization.....	55	749	2,876	577	1,129	1,772	4,895	24,012	28,908
	75-89% specialization.....	24	1,285	5,134	896	1,986	3,521	10,515	48,411	58,927
	50-74% specialization....	60	5,526	23,256	4,295	8,806	16,565	40,208	193,043	233,251
	Less than 50% specialization.....	27	3,547	14,311	2,515	5,192	9,358	22,355	171,000	124,315
20132	Sausage and other prepared meat products, not canned:									
	All establishments specializing in product class	672	19,649	81,461	14,428	29,960	52,511	141,934	368,266	510,201
	Establishments with:									
	90% or more specialization.....	467	8,528	34,385	6,319	13,247	22,571	62,277	143,563	205,840
	75-89% specialization.....	66	2,804	11,538	2,083	4,193	7,111	19,851	44,040	63,892
	50-74% specialization.....	117	5,185	21,676	3,764	7,774	13,591	37,463	101,081	138,550
	Less than 50% specialization.....	39	3,130	13,861	2,261	4,745	9,236	22,336	79,581	101,918
20133	Canned meats, except dog and cat food:									
	All establishments specializing in product class	63	5,279	19,508	4,288	9,993	13,789	43,590	142,234	185,825
	Establishments with:									
	90% or more specialization.....	49	3,151	11,480	2,589	5,560	8,284	27,458	74,216	111,674
20134	Dried beef and other cured meats, except pork:									
	All establishments specializing in product class	67	1,138	5,636	842	1,772	3,550	9,486	30,195	39,682
	Establishments with:									
	90% or more specialization.....	45	431	1,784	315	674	1,116	3,711	10,939	14,651
20140	Sausage casing:									
	All establishments specializing in product class	39	3,424	17,247	2,494	5,051	10,740	26,873	26,677	53,556
2015	POULTRY DRESSING PLANTS (entire industry).....	1,309	46,173	104,706	41,551	79,530	86,459	206,175	1,051,718	1,257,892
	Establishments with:									
	90% or more specialization.....	1,185	37,951	85,547	34,276	65,470	71,231	171,283	891,449	1,062,732
	75-89% specialization.....	49	4,179	9,356	3,675	6,991	7,350	18,233	80,629	98,863
	50-74% specialization.....	41	2,971	7,423	2,662	5,269	6,049	14,488	62,872	77,361
	All other <sup>1</sup> .....	34	1,071	2,379	936	1,799	1,829	2,169	16,766	18,936
20151	Chickens and fowl:									
	All establishments specializing in product class	790	36,321	82,414	32,838	63,991	68,441	159,545	827,262	986,302
20153	Dressed turkeys:									
	All establishments specializing in product class	120	6,336	14,621	5,692	10,152	12,019	34,790	161,890	196,681
	Establishments with:									
	90% or more specialization.....	48	1,846	3,815	1,683	2,728	3,208	10,842	50,474	61,317
	75-89% specialization.....	11	623	1,586	563	1,044	1,221	3,589	16,492	20,082
	50-74% specialization.....	46	3,223	7,821	2,868	5,292	6,446	17,589	79,310	96,900
	Less than 50% specialization.....	15	643	1,398	577	1,087	1,142	2,769	15,612	18,382
20154	Other dressed poultry and small game:									
	All establishments specializing in product class	32	489	1,376	410	710	974	2,636	13,976	16,612
	Establishments with:									
	90% or more specialization.....	19	235	646	201	309	486	1,119	7,344	8,464

<sup>1</sup>This class includes data for establishments with less than 50 percent specialization in the primary products of the industry and establishments engaged exclusively in contract work defined in the industry. Miscellaneous small statistical adjustments are also included.

<sup>2</sup>Establishments "specializing" in hides, skins and pelts are custom slaughterers, with hides constituting the principal products sold.

<sup>3</sup>Represents slaughtering plants with sausage and related products constituting the principal products manufactured.





## Dairy Products

This report shows 1954 Census of Manufactures statistics for establishments classified in each of the following industries:

Code	Title
2021--	Creamery Butter
2022--	Natural Cheese
2023--	Concentrated Milk
2024--	Ice Cream and Ices
2025--	Special Dairy Products
2026--	Fluid Milk
2027--	Fluid Milk and Other Dairy Products

This group of industries comprises establishments primarily engaged in the manufacture of dairy products, including fluid milk. The group is characterized by a considerable amount of overlapping production between individual industries; plants primarily engaged in bottling and distributing fluid milk, for example, commonly manufacture other dairy products in substantial quantities, such as ice cream, butter, cottage cheese, chocolate milk, and cultured buttermilk. For this reason, the statistics for individual industries in the dairy group are not closely comparable to the commodities described in the industry titles.

The data for specialized plants shown in Tables 3 and 8 may, however, be used to estimate employment, payrolls, etc., associated with particular commodities or groups of commodities. The estimates shown in the table below were developed by this method, using the data in Table 3 for establishments with 90 percent or more primary product specialization.

These data may be interpreted as directly applicable to the commodity under consideration, without reference to the composition of the industry; for example, it may be stated that an estimated 15,800 employees were engaged in the manufacture of butter in 1954.

Prior to the 1954 Census, dairy plants were not treated statistically as one group. In accordance with the 1945 Standard Industrial Classification definitions, the 1947 Census excluded from manufacturing dairy plants manufacturing dairy products and distributing fluid milk at retail, however, in 1947, supplemental data were presented for plants producing dairy products and engaged in distributing fluid milk and cream. In presenting such data, the establishment was classified on the basis of its principal manufacturing activity, except for fluid milk and cream. Thus a plant with most of its sales volume accounted for by ice cream production and a small part by retail fluid milk sales was classified as "nonmanufacturing," but supplemental data was presented for Industry 2024 (1947 Census industry code

4024) Ice Cream and Ices to show selected statistics for such "nonmanufacturing" establishments. Although the 1947 Census coverage of plants primarily engaged in manufacturing the major dairy products, such as butter, evaporated milk, and ice cream was virtually complete, there is evidence of some undercoverage with respect to some of the minor products such as cottage cheese, chocolate milk, and cultured buttermilk. These products are commonly manufactured in fluid milk plants, and the reason for undercoverage is that the mailing lists for the 1947 Census excluded many fluid milk plants manufacturing such products. The extent of the undercoverage became apparent when all dairy plants, including fluid milk plants, were canvassed for the 1954 Census of Manufactures.

The 1947 data have been retabulated to conform to the 1954 definitions of the industries, except that comparable 1947 statistics could not be developed for the fluid milk industries (SIC 2026 and 2027). Statistics for fluid milk plants are available from the Census of Business for 1948, however, and are shown in Table 1 of this report.

The 1954 Census dairy products industries were defined by agreement with the Standard Industrial Classification Technical Committee of the Bureau of the Budget. Pending revision of the SIC, it was agreed that the Census Bureau would provide additional tabulations showing 1954 selected general statistics for the dairy products industries as defined in the 1945 edition of the Standard Industrial Classification Manual. These statistics are shown in Table A. In addition, Table B presents comparable statistics for the plants classified in nonmanufacturing industries by the 1945 definitions.

### 2021--Creamery Butter

This industry comprises establishments primarily engaged in manufacturing creamery butter.

The value of shipments of Industry 2021, Creamery Butter, in 1954 totaled \$926 million. This included shipments of primary products (creamery butter) valued at \$665 million, shipments of secondary products valued at \$228 million, and miscellaneous receipts (principally shell egg sales) of \$34 million. Receipts for merchandising (products bought and resold without further manufacture or processing) valued at \$87 million are excluded from the \$926 million value of shipments of Industry 2021. Data relating to these merchandising receipts are also excluded from the cost of materials and value added by manufacture, but the merchandising activities are reflected in other industry statistics, mainly in employment and inventory.

Industry 2021 shipments of creamery butter in 1954 represented 74 percent of its total product shipments (primary and

Commodity	Estimated industry statistics related to commodity totals, 1954				
	All employees, number	Payroll (Million dollars)	Value added by manufacture (Million dollars)	Cost of materials, etc. (Million dollars)	Value of shipments (Million dollars)
Dairy products, total.....	267,300	1,044	2,231	15,476	17,707
Butter.....	15,800	47	111	748	859
Cheese.....	15,100	43	89	524	613
Concentrated milks.....	16,000	59	228	609	837
Ice cream and ices.....	47,500	178	442	512	954
Special dairy products.....	10,100	37	71	404	475
Fluid milk and cream.....	162,800	680	1,290	2,679	3,969

<sup>1</sup>Totals for the entire dairy group include 10 to 15 percent duplication owing to the use of natural cheese in process cheese production, ice cream mix in ice cream production, etc.

secondary). In 1947, this primary product specialization ratio was 79 percent. Secondary products shipped by this industry in 1954 consisted mainly of dry milk products, \$74 million, and fluid milk and cream, \$76 million.

Industry 2021 shipments of creamery butter in 1954 represented 77 percent of the creamery butter, valued at \$859 million, shipped by all industries. This coverage ratio in 1947 was 84 percent. Other industries shipping creamery butter in 1954 consisted mainly of Industry 2027, Fluid Milk, \$108 million; Industry 2023, Concentrated Milks, \$34 million; and Industry 2022, Natural Cheese, \$24 million.

#### 2022--Natural Cheese

This industry comprises establishments primarily engaged in manufacturing all types of natural cheese and which may produce processed cheese in the same establishment. Establishments primarily engaged in manufacturing processed cheese from purchased natural cheese are classified in Industry 2025. For a detailed list of primary products of Industry 2022, refer to Table 6A, product codes 2022011 to 2022098, and 2025211 to 2025298.

The value of shipments of Industry 2022, Natural Cheese, in 1954 totaled \$551 million. This included shipments of primary products (natural cheese) valued at \$457 million, shipments of secondary products valued at \$94 million.

Industry 2022 shipments of natural cheese in 1954 represented 83 percent of its total product shipments (primary and secondary). In 1947 this primary product specialization ratio was 84 percent. Secondary products shipped by this industry in 1954 consisted mainly of fluid milk and cream, \$43 million, and creamery butter, \$24 million.

Industry 2022 shipments of natural cheese in 1954 represented 74 percent of the natural cheese, valued at \$613 million, shipped by all industries. This coverage ratio in 1947 was 83 percent. Industry 2027 Fluid Milk and Other Products was the principal other industry shipping natural cheese in 1954. These shipments, valued at \$114 million, consisted almost entirely of cottage cheese. The coverage ratio for Industry 2022 in 1954 and 1947 would be over 95 percent if based only on shipments of cheese, other than cottage cheese.

#### 2023--Concentrated Milks (Full Standard Industrial Classification Title: Condensed and Evaporated Milk)

This industry comprises establishments primarily engaged in manufacturing condensed and evaporated milk, and related products such as sweetened condensed milk (case and bulk goods); unsweetened condensed and evaporated milk; condensed and evaporated buttermilk; dried and powdered skim milk, whole milk, whey, and buttermilk; and ice cream mix and ice milk mix made for sale as such. For a detailed list of the primary products of Industry 2023, refer to Table 6A, product codes 2023111 to 2023411.

The value of shipments of Industry 2023 in 1954 totaled \$688 million. This included shipments of primary products (concentrated milk products) valued at \$566 million, and shipments of secondary products valued at \$122 million.

Industry 2023 shipments of concentrated milk products in 1954 represented 82 percent of its total product shipments (primary and secondary). In 1947 this primary product specialization ratio was 84 percent. Secondary products shipped by this industry in 1954 consisted of bulk fluid milk and cream, \$71 million, and butter, \$34 million.

Industry 2023 shipments of concentrated milk products in 1954 represented 68 percent of the concentrated milk products, valued at \$837 million, shipped by all industries. This coverage ratio in 1947 was 77 percent. Other industries shipping concentrated milk products in 1954 consisted mainly of Industry 2027, Fluid Milk and Other Products, \$149 million, and Industry 2021, Creamery Butter, \$85 million.

#### 2024--Ice cream and Ices

This industry comprises establishments primarily engaged in manufacturing ice cream, ice cream cake, ices, and other frozen desserts. For a detailed list of the primary products of Industry 2024, refer to Table 6A, product codes 2024011 to 2024098.

The value of shipments of Industry 2024, Ice Cream and Ices, in 1954 totaled \$727 million. This included shipments of primary products (ice cream and ices) valued at \$671 million, shipments of secondary products valued at \$54 million, and miscellaneous receipts of \$2 million.

Industry 2024 shipments of ice cream and ices in 1954 represented 93 percent of its total product shipments (primary and secondary). In 1947 this specialization ratio was 90 percent. Secondary products shipped by Industry 2024 in 1954 consisted mainly of bottled fluid milk and cream, \$21 million, and ice cream mix and ice milk mix, \$13 million.

Industry 2024 shipments of ice cream and ices in 1954 represented 70 percent of the ice cream and ices, valued at \$954 million, shipped by all manufacturing industries. This coverage ratio in 1947 was 87 percent. The principal other manufacturing industry shipping ice cream and ices in 1954 was Industry 2027, Fluid Milk and Other Products, \$255 million. Excluded from these figures are the ice cream and ices produced in retail ice cream stands, hotels, restaurants, and establishments with no paid employees. Comparison with Department of Agriculture figures for 1954 indicates that manufacturing establishments accounted for slightly over 80 percent of the total commercial production.

#### 2025--Special Dairy Products

This industry comprises establishments primarily engaged in manufacturing special dairy products. Important products of this industry include processed and ladle butter, malted milk, and fermented milk; processed cheese, cheese pastes, and spreads made from purchased natural cheese; instant whip (vegetable oil base), sour cream, and yogurt. Establishments primarily engaged in manufacturing creamery butter are classified in Industry 2021, natural and process cheese produced from natural cheese made in the same establishment in Industry 2022, and dried or powdered milk in Industry 2023. For a detailed list of the primary products of Industry 2025, refer to Table 6A, product codes 2025111 to 2025298.

The value of shipments of Industry 2025, Special Dairy Products, in 1954 totaled \$295 million. This included shipments of primary products (special dairy products) valued at \$265 million, shipments of secondary products valued at \$28 million, and miscellaneous receipts of \$2 million.

Receipts for merchandising (products bought and resold without further manufacture or processing) valued at \$46 million are excluded from the \$295 million value of shipments of Industry 2025. Data relating to these merchandising receipts are also excluded from the cost of materials and value added by manufacture, but the merchandising activities are reflected in other detailed industry statistics mainly in employment and inventory.

Industry 2025 shipments of special dairy products in 1954 represented 90 percent of its total product shipments (primary and secondary). In 1947 this specialization ratio was 91 percent. Secondary products shipped by this industry in 1954 consisted mainly of natural cheese, \$14 million.

Industry 2025 shipments of special dairy products in 1954 represented 56 percent of the special dairy products, valued at \$475 million, shipped by all industries. The corresponding coverage ratio for 1947 is not available. The principal other industry shipping special dairy products in 1954 was Industry 2027, Fluid Milk and Other Products, \$175 million.

#### 2026--Fluid Milk and

#### 2027--Fluid Milk and Other Products

These two industries are described together because of their close relationship. They comprise establishments primarily engaged in processing (pasteurizing, homogenizing, vitaminizing, bottling) and distributing fluid milk and cream. Establishments primarily engaged in processing fluid milk and which are not engaged in the manufacture of other dairy products are classified in Industry 2026, and those primarily engaged in processing fluid milk but also manufacturing other dairy products in Industry 2027. For a detailed list of primary products of these industries, refer to Table 6A product codes 2027111 to 2027251.

The value of shipments of Industries 2026 and 2027, Fluid Milk, in 1954 totaled \$4,587 million. This included shipments of primary products (fluid milk and cream) valued at \$3,742 million, shipments of secondary products valued at \$812 million, and miscellaneous receipts of \$34 million.



## DAIRY PRODUCTS

20B-3

TABLE A.--DAIRY INDUSTRIES AS DEFINED IN THE 1945 EDITION OF S.I.C. (PRIOR TO REVISION): SELECTED GENERAL STATISTICS FOR THE UNITED STATES: 1954 AND 1947

1954 Subindustry code <sup>1</sup>	Description of subindustry	1954					1947	
		All employees, (Number)	Production workers, (Number)	Value added by manufacture (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments (\$1,000)	All employees, (Number)	Value added by manufacture (\$1,000)
Total	Dairy plants not engaged in house-to-house distribution of fluid milk.....	85,104	59,601	736,010	2,249,979	2,985,204	92,693	595,168
2021-00 2021-10 }	Creamery butter plants not engaged in house-to-house distribution of fluid milk.....	17,969	13,050	120,141	697,471	817,512	20,564	107,248
2022-00 2022-10 }	Natural cheese plants not engaged in house-to-house distribution of fluid milk.....	13,202	10,834	84,614	443,934	527,860	12,320	63,257
2023-00 2023-10 }	Concentrated milk plants not engaged in house-to-house distribution of fluid milk.....	12,601	10,463	163,732	495,867	659,601	16,635	148,771
2024-00 2024-10 }	Ice cream and ices plants not engaged in house-to-house distribution of fluid milk.....	34,205	19,552	311,588	376,950	688,539	35,807	228,049
2025-00 2025-10 }	Special dairy products plants not engaged in house-to-house distribution of fluid milk.....	7,127	5,702	55,935	235,757	291,692	7,367	47,843

For footnotes see end of Table B.

TABLE B.--DAIRY PLANTS EXCLUDED FROM "MANUFACTURING" IN THE 1945 EDITION OF S.I.C. (PRIOR TO REVISION): SELECTED GENERAL STATISTICS FOR THE UNITED STATES: 1954 AND 1947

1954 Subindustry code <sup>1</sup>	Description of subindustry	1954					1947	
		All employees, (Number)	Production workers, (Number)	Value added by manufacture (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments (\$1,000)	All employees, (Number)	Value added by manufacture (\$1,000)
Total	Dairy plants engaged in house-to-house distribution of fluid milk.....	198,324	93,592	1,520,826	3,269,293	4,790,101	( <sup>2</sup> )	( <sup>2</sup> )
2021-11	Creamery butter plants engaged in house-to-house distribution of fluid milk.....	3,050	2,010	16,912	91,994	108,902	6,545	30,969
2022-11	Natural cheese plants engaged in house-to-house distribution of fluid milk.....	712	509	4,102	19,198	23,299	432	1,805
2023-11	Concentrated milk plants engaged in house-to-house distribution of fluid milk.....	709	437	6,834	21,779	28,611	1,615	7,968
2024-11	Ice cream and ices plants engaged in house-to-house distribution of fluid milk.....	2,283	1,430	16,310	22,584	38,894	10,850	51,675
2025-11	Special dairy products plants engaged in house-to-house distribution of fluid milk.....	173	145	1,030	2,615	3,645	129	586
2026	Fluid milk only.....	14,086	9,074	98,940	253,827	352,767	( <sup>2</sup> )	( <sup>2</sup> )
2027	Fluid milk with other dairy products.....	177,311	79,987	1,376,698	2,857,296	4,233,983		

Note: The number of establishments is not shown in these tables because it was not possible to determine precisely for many small dairy establishments included in the 1954 Census, whether or not the establishment was engaged in house-to-house distribution of fluid milk (as distinguished from the sale of bulk milk or distribution of bottled milk to grocery stores, etc.). The estimated employment, value added, cost of materials, and value of shipments of such establishments attributable to house-to-house distribution (amounting to between 1 and 10 percent of the totals shown for sub-industries 2021-11 through 2025-11) are included in the statistics in Table B and excluded from those in Table A.

<sup>1</sup>The subindustry codes applied in 1954 processing are defined as follows:--2021-00 through 2025-00: Plants reporting no sales of milk or cream. 2021-10 through 2025-10: Plants reporting some sales of milk or cream, but no sales of milk on retail routes (product code 2027225). Thus the subindustry includes plants reporting milk or cream sales, not specified by kind (product codes 2027000, 2027100, 2027200). The statistics have been adjusted, as described in the Note above, to include the estimated employment, etc., of such plants in Table B rather than in Table A. 2021-11 through 2025-11: Plants reporting sales of milk on retail routes (product code 2027225).

<sup>2</sup>No comparable data available for 1947.



Shipments of fluid milk and cream by these industries in 1954 represented 82 percent of their total product shipments (primary and secondary). The 1947 primary product specialization ratio is not available. Secondary products shipped by these industries in 1954 consisted mainly of ice cream and ices, \$255 million; special dairy products (such as cultured buttermilk and chocolate milk) \$174 million; concentrated milk products, \$150 million; cottage cheese, \$114 million; and butter, \$108 million.

Shipments of fluid milk and cream by Industries 2026 and 2027 in 1954 represented 94 percent of the fluid milk and cream,

valued at \$3,969 million, shipped by all manufacturing industries. The 1947 coverage ratio is not available. Other industries shipping fluid milk and cream in 1954 consisted mainly of Industry 2023, Concentrated Milks, \$75 million; Industry 2022, Natural Cheese, \$43 million; and Industry 2024, Ice Cream and Ices, \$23 million. The total fluid milk and cream figures quoted here include both bulk shipments between plants for processing, and bottled shipments or deliveries for consumption. Bulk shipments comprise about 18 percent of the total of \$3,969 million.

The general statistics (employment, payrolls, value of shipments, cost of materials, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products, and, for that matter, their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (Tables 1-4) with product statistics (Table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in Table 5A which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry made as secondary products by establishments classified in other industries.

## DAIRY PRODUCTS

20B-5

Table 1.—GENERAL STATISTICS FOR THE UNITED STATES: 1954 AND EARLIER YEARS

(For explanation of column captions see Introduction)

Industry and census year	Establish- ments, number	All employees		Production workers		Value added by manufacture <sup>2</sup>	Cost of materials, etc. <sup>3</sup>	Value of shipments <sup>4</sup>
		Number <sup>1</sup>	Payroll (\$1,000)	Number <sup>1</sup>	Wages (\$1,000)			
Creamery butter (S.I.C. 2021):								
1954.....	1,262	21,019	65,601	15,060	42,920	136,953	789,465	926,414
1947 <sup>5</sup> .....	1,904	27,109	59,013	19,746	41,323	138,217	867,673	1,005,890
Natural cheese (S.I.C. 2022):								
1954.....	1,419	13,914	42,363	11,343	32,826	88,716	462,443	551,159
1953 <sup>6</sup> .....	(NA)	11,426	34,560	9,501	27,234	81,601	434,367	515,968
1950 <sup>6</sup> .....	(NA)	12,226	30,284	11,110	25,599	74,281	380,415	454,696
1947 (comparable with 1950-1954) <sup>7</sup> .....	1,738	12,752	28,514	10,836	23,687	65,062	404,065	469,127
1947 (comparable with earlier years) <sup>7</sup> .....	1,811	(NA)	(NA)	(NA)	(NA)	67,000	417,000	484,000
1939.....	2,682	6,152	6,788	5,009	5,156	16,767	91,440	108,207
1937.....	2,567	5,107	5,274	4,482	4,359	17,114	95,672	112,786
1935.....	2,573	5,052	4,890	4,344	3,936	14,828	84,122	98,950
1931.....	2,371	(NA)	(NA)	2,964	3,564	13,991	54,081	68,072
1929.....	2,758	4,262	5,447	3,401	4,588	17,918	92,727	110,645
1927.....	2,738	4,355	5,666	3,520	4,897	17,660	100,788	118,448
1925.....	2,935	4,128	4,830	3,398	4,320	15,109	103,569	118,678
1923.....	3,399	(NA)	(NA)	4,283	5,113	20,743	107,022	127,765
1921.....	2,789	4,125	4,969	3,498	4,424	12,762	69,118	81,880
1919.....	3,530	4,593	5,859	3,997	4,809	14,031	129,425	143,456
1914.....	3,082	3,234	2,274	2,908	2,066	4,986	46,759	51,745
1909.....	3,560	3,016	1,825	2,704	1,670	5,241	39,022	44,263
1904 <sup>8</sup> .....	3,610	2,829	1,531	2,652	1,494	3,881	25,257	29,138
Concentrated milk (S.I.C. 2023):								
1954.....	359	13,310	50,513	10,900	39,338	170,566	517,646	688,212
1953 <sup>6</sup> .....	(NA)	16,478	62,656	13,418	48,385	186,115	649,872	835,987
1952 <sup>6</sup> .....	(NA)	15,643	55,750	12,697	43,299	141,153	626,646	767,799
1951 <sup>6</sup> .....	(NA)	16,294	53,135	13,408	41,479	148,441	597,153	745,594
1950 <sup>6</sup> .....	(NA)	15,247	47,098	12,397	36,164	153,667	470,264	623,931
1949 <sup>6</sup> .....	(NA)	15,487	45,122	12,785	35,480	159,862	460,650	620,512
1947 (comparable with 1949-1954) <sup>7</sup> .....	451	18,250	47,352	15,028	37,639	156,739	624,656	781,395
1947 (comparable with earlier years) <sup>7</sup> .....	562	(NA)	(NA)	(NA)	(NA)	164,000	648,000	812,000
1939.....	562	12,392	15,916	9,705	11,234	46,233	163,523	209,756
1937.....	601	10,743	13,251	8,967	9,964	44,112	166,606	210,718
1935.....	467	9,891	10,913	8,458	8,319	40,544	130,945	171,489
1933.....	436	7,338	7,758	6,331	6,100	34,388	96,698	131,086
1931.....	485	(NA)	(NA)	6,121	7,256	39,201	109,397	148,598
1929.....	535	8,498	11,681	7,065	8,796	45,323	163,787	209,110
1927.....	464	8,742	11,757	7,390	9,191	40,406	159,680	200,086
1925.....	402	8,385	10,629	7,118	8,391	31,206	140,041	171,247
1923.....	378	(NA)	(NA)	8,293	10,126	33,115	153,996	187,111
1921.....	382	12,268	15,911	9,462	10,349	44,312	132,525	176,837
1919.....	401	16,487	19,924	13,675	14,278	56,912	282,595	339,507
1914.....	190	7,579	5,613	6,002	3,662	13,441	55,720	69,161
1909.....	136	4,946	3,156	4,164	2,170	8,417	26,878	35,295
1904 <sup>8</sup> .....	81	3,688	1,876	3,375	1,513	4,151	16,373	20,524
Ice cream and ices (S.I.C. 2024):								
1954.....	1,587	36,488	134,171	20,982	64,193	327,898	399,534	727,433
1953 <sup>6</sup> .....	(NA)	39,649	143,746	21,028	67,216	357,358	447,514	804,872
1952 <sup>6</sup> .....	(NA)	39,347	126,375	19,388	57,242	312,692	409,309	722,001
1951 <sup>6</sup> .....	(NA)	41,329	120,260	20,866	59,558	288,560	385,189	673,749
1950 <sup>6</sup> .....	(NA)	44,137	115,201	21,895	52,730	284,113	357,727	641,840
1947 <sup>5</sup> .....	1,690	46,657	119,259	29,272	66,082	279,724	492,777	772,501
Special dairy products (S.I.C. 2025):								
1954.....	187	7,300	26,595	5,847	20,050	56,965	238,372	295,337
1953 <sup>6</sup> .....	(NA)	5,812	22,860	4,909	18,009	58,514	231,671	290,185
1952 <sup>6</sup> .....	(NA)	5,692	20,875	5,417	18,536	54,408	277,712	332,120
1951 <sup>6</sup> .....	(NA)	6,528	22,094	6,221	19,927	50,622	280,711	331,333
1950 <sup>6</sup> .....	(NA)	8,068	22,153	7,646	20,130	53,461	220,770	274,231
1949 <sup>6</sup> .....	(NA)	6,278	18,192	5,673	15,405	49,434	221,454	270,888
1947.....	139	7,496	18,770	6,228	14,107	48,429	244,671	293,100
1939.....	51	3,085	3,800	2,378	2,427	7,185	50,384	57,569
1937 <sup>9</sup> .....	34	(NA)	(NA)	1,911	2,017	7,306	45,217	52,523

See footnotes at end of table.

## MANUFACTURES--INDUSTRY STATISTICS

Table 1.—GENERAL STATISTICS FOR THE UNITED STATES: 1954 AND EARLIER YEARS—Continued

(For explanation of column captions see Introduction)

Industry and census year	Establishments, number	All employees		Production workers		Value added by manufacture <sup>2</sup> (\$1,000)	Cost of materials, etc. <sup>3</sup> (\$1,000)	Value of shipments <sup>4</sup> (\$1,000)
		Number <sup>1</sup>	Payroll (\$1,000)	Number <sup>1</sup>	Wages (\$1,000)			
Fluid milk (S.I.C. 2026-2027):								
1954.....	6,689	191,397	767,045	89,061	307,834	1,475,638	3,111,123	4,586,750
1948 <sup>10</sup> .....	6,616	149,082	472,886	(NA)	(NA)	(NA)	(NA)	3,704,003
Fluid milk only (S.I.C. 2026):								
1954.....	1,695	14,086	48,085	9,074	27,692	98,940	253,827	352,767
Fluid milk and other dairy products (S.I.C. 2027):								
1954.....	4,994	177,311	718,960	79,987	280,142	1,376,698	2,857,296	4,233,983

NA Not available.

<sup>1</sup>For the period 1949-1954, figures are based on employment for the payroll periods ended nearest the 15th of March, May, August and November. For 1947, they represent the average of 12 monthly figures. For earlier years, the production worker average was calculated as in 1947, but the figure for all employees represents the sum of the annual average number of production workers and the number of nonproduction workers reported for one payroll period (usually in October). For 1948 (Industries 2026 and 2027) the figure represents employment in Mid-November.

<sup>2</sup>Value of products less cost of materials, supplies, fuel, electric energy and contract work. See Introduction, "Value Added by Manufacture."

<sup>3</sup>Figures for years prior to 1935 do not include cost of contract work.

<sup>4</sup>For 1929 and 1947-1954, value of shipments; for all other years, value of production. See Introduction, "Value of Shipments."

<sup>5</sup>1947 data have been retabulated to conform with the 1954 definition of the industry. Prior to 1947, the industry was defined to include plants primarily engaged in fluid milk distribution but also making the specified dairy products, as well as plants whose primary activity was manufacture of the specified dairy products. The statistics previously published for 1939 and earlier years are, therefore, not comparable with 1947 and 1954.

<sup>6</sup>The figures for 1949-1953 represent estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period. Estimates with a standard error in excess of 15 percent generally have been omitted from this table.

<sup>7</sup>Prior to 1947, establishments distributing fluid milk were included in the industry. Such establishments were instructed, however, to exclude data relating to fluid milk distribution from their census reports. The totals for the second set of 1947 statistics, therefore, and the corresponding figures for earlier years, relate to dairy products other than fluid milk.

<sup>8</sup>Prior to 1904, "Creamery outter," "Natural cheese," and "Concentrated milk" were combined in one industry.

<sup>9</sup>Special dairy products were formerly classified in "Food preparations, n.e.c." Separate figures are therefore not available for years prior to 1937.

<sup>10</sup>Data from 1948 Census of Business; includes establishments formerly classified as "Dairy products distributors." "Dairy-poultry products distributors," and "Retail milk dealers." Plants with no paid employees are excluded.



## DAIRY PRODUCTS

20B-7

Table 2.—GENERAL STATISTICS BY REGIONS AND STATES: 1954 AND 1947  
(For explanation of column captions see Introduction)

Industry, region, and State <sup>1</sup>	1954											1947	
	Establishments, number		All employees		Production workers			Value added by manufacture	Cost of materials, etc.	Value of shipments	Capital expenditures, new	All employees, number	Value added by manufacture
	Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)		(\$1,000)
Creamery butter (S.I.C. 2021), total.....	1,262	248	21,019	65,601	15,060	32,756	42,920	136,953	789,465	926,414	13,566	27,109	138,217
New England.....	9	1	68	216	51	114	150	435	2,376	2,811	27	(D)	(D)
Middle Atlantic.....	56	15	1,085	3,728	727	1,526	2,246	6,542	47,553	54,095	594	(D)	(D)
New York.....	28	10	742	2,576	501	1,034	1,546	4,485	34,976	39,461	299	506	3,637
Pennsylvania.....	17	4	244	849	151	325	489	1,423	8,909	10,333	258	(D)	(D)
East North Central.....	245	76	5,739	19,616	3,976	9,040	12,508	44,433	243,974	288,407	3,990	6,542	33,031
Ohio.....	30	13	1,251	4,526	777	1,812	2,530	9,800	42,667	52,467	762	1,656	7,576
Indiana.....	17	7	375	1,255	263	596	803	2,158	13,198	15,357	163	969	6,345
Illinois.....	36	13	774	2,689	488	1,058	1,517	5,926	25,839	31,766	366	1,292	6,389
Michigan.....	52	9	727	2,259	534	1,227	1,584	4,809	28,273	33,083	256	899	4,277
Wisconsin.....	110	34	2,610	8,887	1,910	4,345	6,073	21,738	133,995	155,734	2,441	1,726	8,444
West North Central.....	756	107	10,370	30,153	7,595	16,561	20,295	62,192	379,083	441,270	7,346	13,679	65,474
Minnesota.....	309	30	3,218	9,271	2,456	5,459	6,693	19,091	125,003	144,092	3,157	4,469	19,988
Iowa.....	228	21	2,387	6,593	1,752	3,605	4,415	12,787	93,884	106,670	1,612	3,010	16,663
Missouri.....	33	14	1,221	4,288	848	2,002	2,612	7,860	45,758	53,619	909	1,023	5,085
North Dakota.....	69	13	972	2,605	642	1,424	1,627	5,388	29,529	34,916	455	1,296	(D)
South Dakota.....	41	5	504	1,237	389	823	876	3,120	17,522	20,643	147	567	(D)
Nebraska.....	48	14	1,017	2,915	757	1,673	1,904	8,277	37,517	45,795	563	1,569	6,814
Kansas.....	28	10	1,050	3,242	749	1,573	2,166	5,666	29,867	35,533	500	1,745	7,333
South Atlantic.....	33	5	357	1,076	239	525	625	2,088	8,403	10,492	84	(D)	(D)
East South Central.....	16	11	978	2,920	719	1,452	1,804	5,264	24,426	29,691	417	(D)	(D)
Mississippi.....	7	3	149	448	110	250	301	887	5,568	6,455	137	114	476
West South Central.....	30	8	660	1,826	438	915	980	4,279	19,451	23,731	298	(D)	(D)
Oklahoma.....	13	5	422	1,203	271	588	633	2,838	12,816	15,655	205	979	4,619
Texas.....	12	3	198	506	140	275	282	1,181	4,739	5,921	81	246	1,152
Mountain.....	60	10	840	2,660	616	1,296	1,838	5,778	28,115	33,895	526	1,423	7,187
Montana.....	24	1	166	404	118	223	261	779	2,507	3,287	41	307	1,357
Idaho.....	11	5	385	1,240	325	684	1,010	2,241	14,550	16,791	414	578	3,479
Colorado.....	13	2	137	527	89	204	332	1,363	7,337	8,700	35	241	1,116
Utah.....	4	2	118	392	62	129	174	1,273	3,061	4,334	27	85	(D)
Pacific.....	57	15	919	3,404	696	1,323	2,469	5,940	36,080	42,020	279	1,991	12,322
Washington.....	20	2	162	542	112	209	353	621	3,520	4,141	27	822	3,629
Oregon.....	19	5	264	946	197	346	650	1,781	8,601	10,383	49	624	4,272
California.....	18	8	492	1,916	386	768	1,465	3,538	23,958	27,496	203	545	4,421
Natural cheese (S.I.C. 2022), total.....	1,419	182	13,914	42,363	11,343	25,672	32,826	88,716	462,443	551,159	9,317	12,752	65,062
New England.....	24	6	341	1,058	255	576	651	1,673	5,487	7,161	122	178	918
Vermont.....	9	3	119	351	105	238	289	593	3,604	4,198	9	110	667
Massachusetts.....	6	2	132	540	73	166	235	877	1,313	2,190	27	37	(D)
Middle Atlantic.....	98	22	1,521	4,846	1,294	2,921	3,876	11,276	40,685	51,961	644	1,049	5,823
New York.....	69	17	1,143	3,751	992	2,250	3,058	8,888	32,857	41,745	537	790	4,413
Pennsylvania.....	21	5	323	959	257	575	704	2,041	6,560	8,603	76	239	1,309
East North Central.....	1,023	75	7,279	21,371	5,929	13,373	16,929	44,715	257,273	301,988	5,365	6,587	37,201
Ohio.....	39	7	655	2,536	484	1,126	1,769	4,370	13,289	17,659	325	507	(D)
Indiana.....	16	11	458	1,599	363	818	1,130	5,966	10,879	16,845	205	541	(D)
Illinois.....	85	19	1,156	4,095	959	2,259	3,307	8,146	33,009	41,156	1,138	1,175	5,261
Michigan.....	41	6	478	1,530	347	797	1,047	2,584	13,519	16,103	327	401	(D)
Wisconsin.....	842	32	4,529	11,610	3,774	8,372	9,675	23,648	186,576	210,224	3,369	3,963	25,479
West North Central.....	119	30	2,075	6,428	1,673	4,081	4,924	14,523	76,561	91,085	1,629	1,855	6,432
Minnesota.....	30	11	792	2,822	624	1,632	2,092	7,372	33,921	41,294	542	713	2,491
Iowa.....	35	...	262	734	218	481	583	1,678	9,043	10,721	373	93	490
Missouri.....	39	18	872	2,479	713	1,697	1,936	4,581	29,624	34,206	573	851	2,553
Kansas.....	10	1	113	295	89	209	237	679	3,014	3,693	99	141	598

See footnotes at end of table.

## MANUFACTURES—INDUSTRY STATISTICS

Table 2.—GENERAL STATISTICS BY REGIONS AND STATES: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Industry, region, and State <sup>1</sup>	1954										1947		
	Establishments, number		All employees		Production workers			Value added by manufacture	Cost of materials, etc.	Value of shipments	Capital expenditures, new	All employees, number	Value added by manufacture
	Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)		(\$1,000)
Natural cheese, etc.—Con.													
South Atlantic.....	11	1	81	223	66	144	157	360	2,505	2,866	57	33	160
East South Central.....	43	22	1,020	2,987	821	1,866	2,124	5,648	30,137	35,785	398	1,014	4,614
Kentucky.....	9	9	277	802	222	502	547	1,621	8,511	10,132	110	370	1,826
Tennessee.....	20	11	519	1,541	417	958	1,113	2,628	15,971	18,599	203	383	1,858
Mississippi.....	10	2	176	523	141	313	370	948	4,631	5,579	69	184	683
West South Central.....	13	5	302	896	268	565	764	1,370	8,376	9,746	175	533	2,072
Mountain.....	42	10	550	1,729	451	991	1,384	4,097	19,262	23,360	558	668	(D)
Idaho.....	24	4	317	1,026	253	590	805	1,601	10,926	12,528	347	330	1,565
Pacific.....	46	11	742	2,822	579	1,152	2,012	5,051	22,155	27,206	365	835	(D)
California.....	20	6	403	1,683	300	592	1,143	2,639	11,250	13,889	205	355	(D)
Concentrated milk (S.I.C. 2023), total.....	359	192	13,310	50,513	10,900	24,583	39,338	170,566	517,646	688,212	9,818	18,250	156,739
New England.....	8	1	114	330	91	180	256	1,167	3,994	5,162	172	159	1,464
Middle Atlantic.....	40	20	1,170	4,231	948	2,117	3,226	13,270	40,107	53,378	1,372	1,267	11,298
New York.....	26	13	757	2,791	622	1,417	2,122	8,305	25,554	33,860	730	844	8,612
East North Central.....	141	88	6,140	24,436	5,115	11,753	19,552	73,311	236,749	310,061	4,211	8,719	76,816
Ohio.....	16	12	1,001	4,067	810	1,972	3,147	12,826	34,035	46,861	408	1,431	14,217
Indiana.....	13	8	587	2,082	491	1,115	1,665	5,631	20,428	26,060	246	569	4,553
Illinois.....	34	14	961	3,824	792	1,756	2,879	13,611	32,948	46,560	767	1,080	10,962
Michigan.....	19	13	869	3,844	711	1,764	3,075	11,163	33,781	44,945	859	1,305	11,126
Wisconsin.....	59	41	2,720	10,618	2,309	5,145	8,785	30,078	115,556	145,634	1,929	4,334	35,958
West North Central.....	64	29	1,644	5,794	1,441	3,416	4,791	20,908	59,597	80,505	1,298	3,277	23,113
Minnesota.....	27	20	795	2,838	734	1,841	2,548	7,313	27,871	35,184	917	1,822	10,133
Iowa.....	10	1	174	562	147	293	415	3,223	6,965	10,188	126	237	(D)
Missouri.....	14	6	483	1,719	400	910	1,290	8,160	19,402	27,562	188	636	5,548
Kansas.....	8	2	176	629	146	345	500	2,036	5,213	7,250	62	555	4,653
South Atlantic.....	17	8	646	2,299	526	1,236	1,737	10,709	26,343	37,053	1,027	600	7,516
Virginia.....	4	3	213	804	177	420	621	3,635	9,757	13,392	(D)	180	(D)
East South Central.....	27	12	1,242	4,482	1,017	2,365	3,504	22,025	52,996	75,021	715	1,293	11,779
Kentucky.....	9	4	484	1,689	404	929	1,356	10,554	24,031	34,586	212	545	(D)
Tennessee.....	13	5	524	1,964	423	1,005	1,516	7,457	19,403	26,861	315	438	3,579
Alabama.....	...	...	...	...	...	...	...	...	...	...	...	...	(D)
Mississippi.....	5	3	233	828	189	430	631	4,012	9,562	13,574	187	(D)	(D)
West South Central.....	12	5	320	982	216	439	588	4,155	10,044	14,199	229	439	3,116
Texas.....	7	3	131	310	97	156	179	1,485	3,196	4,681	57	297	(D)
Mountain.....	9	7	418	1,517	353	764	1,220	5,497	24,505	30,003	130	514	5,245
Idaho.....	4	3	255	921	214	475	747	3,463	17,423	20,886	98	148	(D)
Pacific.....	41	22	1,614	6,439	1,190	2,308	4,460	19,521	63,307	82,829	661	1,982	16,392
California.....	30	17	1,376	5,542	1,001	1,936	3,747	15,690	54,461	70,152	608	1,584	12,190
Ice cream and ices (S.I.C. 2024), total.....	1,587	477	36,488	134,171	20,982	42,422	64,193	327,898	399,534	727,433	25,733	46,657	279,724
New England.....	135	37	2,790	9,954	1,522	2,934	4,303	25,876	33,302	59,179	1,449	3,126	23,571
Maine.....	11	4	289	975	151	309	398	2,348	3,691	6,039	106	346	(D)
Massachusetts.....	64	20	1,560	5,637	855	1,636	2,444	13,603	17,975	31,578	806	1,794	12,886
Connecticut.....	23	6	454	1,820	250	511	821	5,128	6,253	11,381	306	484	4,019
Middle Atlantic.....	291	107	10,291	41,261	5,982	11,757	20,351	107,495	116,081	223,577	7,573	10,228	74,363
New York.....	133	55	4,412	18,810	2,483	4,991	8,977	48,856	51,203	100,060	3,898	4,654	40,042
New Jersey.....	39	13	1,218	5,266	668	1,348	2,507	11,423	12,258	23,682	1,178	958	7,015
Pennsylvania.....	119	39	4,660	17,184	2,829	5,417	8,866	47,215	52,620	99,835	2,495	4,616	27,306

See footnotes at end of table.

## DAIRY PRODUCTS

20B-9

Table 2.—GENERAL STATISTICS BY REGIONS AND STATES: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Industry, region, and State <sup>1</sup>	1954										1947		
	Establishments, number		All employees		Production workers			Value added by manufacture	Cost of materials, etc.	Value of shipments	Capital expenditures, new	All employees, number	Value added by manufacture
	Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
Ice cream and ices—Con.													
East North Central.....	392	109	7,696	29,600	4,439	8,793	13,785	66,188	83,846	150,035	5,576	11,021	65,669
Ohio.....	84	29	1,858	7,003	1,117	2,166	3,408	16,214	20,440	36,655	1,339	3,361	19,046
Indiana.....	66	12	957	3,247	545	1,149	1,588	8,485	9,512	17,997	585	1,576	8,725
Illinois.....	84	28	2,188	9,398	1,211	2,431	4,034	19,279	23,930	43,210	1,457	2,963	19,545
Michigan.....	90	22	1,462	5,700	887	1,717	2,786	14,771	17,003	31,774	1,349	1,743	9,514
Wisconsin.....	68	18	1,230	4,252	677	1,328	1,967	7,437	12,960	20,398	844	1,378	8,839
West North Central.....	187	48	3,354	12,096	2,013	4,045	5,852	27,899	38,449	66,349	2,085	4,393	23,169
Minnesota.....	35	13	734	2,888	440	872	1,308	5,514	7,615	13,129	359	1,147	(D)
Iowa.....	53	11	773	2,521	477	974	1,351	8,062	10,379	18,442	400	798	4,145
Missouri.....	41	13	806	3,188	455	849	1,353	7,009	8,543	15,552	(D)	1,090	6,183
Nebraska.....	17	4	476	1,600	310	636	941	3,021	6,494	9,515	302	336	(D)
Kansas.....	30	3	270	888	153	318	411	2,220	2,776	4,997	155	643	(D)
South Atlantic.....	139	60	4,336	14,249	2,513	5,618	6,887	38,801	46,231	85,033	3,622	7,157	36,599
Maryland.....	26	10	775	2,768	421	1,001	1,250	7,539	8,502	16,041	498	853	(D)
Virginia.....	16	6	509	1,587	319	705	830	4,440	5,377	9,818	268	924	4,475
West Virginia.....	10	5	242	770	162	354	440	2,899	2,892	5,791	158	498	(D)
North Carolina.....	23	9	510	1,489	318	701	777	4,434	4,912	9,347	268	1,929	8,326
South Carolina.....	10	7	275	817	144	293	340	1,846	2,273	4,119	267	397	(D)
Georgia.....	18	8	454	1,494	237	547	646	2,917	3,882	6,799	270	967	(D)
Florida.....	21	8	852	2,752	483	1,152	1,315	8,474	11,761	20,235	906	661	(D)
East South Central.....	103	34	2,022	6,062	1,183	2,511	2,957	16,115	18,734	34,850	1,562	2,775	13,197
Kentucky.....	18	4	233	762	125	275	310	1,674	2,028	3,703	120	330	(D)
Tennessee.....	39	13	772	2,561	489	1,079	1,320	6,510	8,468	14,978	733	1,141	5,131
Alabama.....	28	9	608	1,741	381	816	945	5,800	5,505	11,306	410	929	4,710
Mississippi.....	18	8	408	998	187	339	381	2,129	2,732	4,862	299	375	(D)
West South Central.....	120	36	2,119	6,272	1,228	2,654	2,931	16,270	20,098	36,369	1,620	3,133	14,811
Arkansas.....	18	4	242	682	139	314	353	1,655	2,096	3,752	259	321	(D)
Louisiana.....	23	7	528	1,453	310	661	740	4,098	5,188	9,287	362	595	(D)
Oklahoma.....	10	4	179	554	107	230	281	1,320	1,509	2,830	105	588	(D)
Texas.....	69	21	1,169	3,582	670	1,448	1,555	9,194	11,304	20,499	893	1,629	8,668
Mountain.....	75	17	1,134	3,704	678	1,326	1,873	7,390	10,768	18,158	909	1,405	7,638
Montana.....	14	3	188	618	104	211	283	845	1,454	2,300	133	173	923
Colorado.....	16	3	214	648	130	272	359	1,694	2,603	4,298	336	427	2,947
Arizona.....	9	3	203	774	111	234	369	1,844	2,044	3,889	114	196	(D)
Utah.....	18	4	278	767	188	322	431	1,465	2,300	3,766	242	354	1,456
Pacific.....	145	29	2,743	10,969	1,422	2,781	5,251	21,860	32,021	53,881	1,334	3,419	20,707
Washington.....	24	4	294	1,292	182	353	665	3,089	4,338	7,427	181	441	(D)
Oregon.....	23	3	256	990	154	312	510	2,378	3,692	6,071	232	268	(D)
California.....	98	22	2,193	8,687	1,085	2,115	4,075	16,392	23,990	40,383	921	2,710	16,104
Special dairy products (S.I.C. 2025), total.....	187	61	7,300	26,595	5,847	11,701	20,050	56,965	238,372	295,337	5,776	7,496	48,429
Northeast.....	59	11	955	3,561	728	1,408	2,225	7,849	19,820	27,669	461	798	6,682
New York.....	30	7	571	2,158	428	850	1,329	5,283	8,170	13,453	301	458	4,188
East North Central.....	68	31	4,373	16,862	3,653	7,556	13,223	38,000	147,344	185,345	(D)	5,180	35,543
Ohio.....	9	2	242	780	190	403	570	2,208	4,068	6,276	70	963	(D)
Michigan.....	5	3	337	1,374	268	590	1,006	9,939	8,175	18,114	346	(D)	(D)
Wisconsin.....	36	20	2,109	7,619	1,735	3,735	5,734	15,717	61,689	77,406	589	2,668	18,095
West North Central.....	15	6	445	1,428	332	648	959	2,465	20,503	22,968	(D)	300	1,127
Missouri.....	9	6	406	1,318	303	594	908	2,288	19,287	21,575	(D)	202	821
South.....	26	6	1,038	2,886	739	1,410	2,436	4,311	34,349	38,660	705	791	3,273
Mountain.....	5	3	222	652	193	331	511	1,946	9,436	11,382	3	(D)	(D)
Pacific.....	14	4	265	1,205	200	347	694	2,392	6,918	9,311	75	(D)	(D)

See footnotes at end of table.



## MANUFACTURES—INDUSTRY STATISTICS

Table 2.—GENERAL STATISTICS BY REGIONS AND STATES: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Industry, region, and State <sup>1</sup>	1954												
	Establishments, number		All employees		Production workers			Value added by manufacture	Cost of materials, etc.	Value of shipments	Capital expenditures, new		
	Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)		
Fluid milk only (S.I.C. 2026), total.....	1,695	139	14,086	48,085	9,074		27,692	98,940	253,827	352,767	7,496		
New England.....	401	20	2,554	7,797	1,633		4,699	15,866	38,390	54,257	1,395		
Maine.....	47	...	211	503	159		403	957	2,313	3,271	167		
New Hampshire.....	42	1	178	468	123		333	791	2,238	3,030	144		
Vermont.....	31	...	132	371	91		246	772	3,940	4,713	86		
Massachusetts.....	182	12	1,319	4,207	792		2,306	8,478	19,308	27,786	698		
Rhode Island.....	38	5	395	1,235	229		695	2,696	5,262	7,959	146		
Connecticut.....	61	2	317	1,012	236		715	2,169	5,326	7,496	153		
Middle Atlantic.....	488	45	4,107	15,027	2,728		8,909	33,864	100,049	133,914	2,380		
New York.....	243	24	2,271	8,762	1,547		5,341	22,481	71,002	93,483	1,455		
New Jersey.....	116	9	848	2,945	587		1,764	5,208	14,950	20,159	444		
Pennsylvania.....	129	12	987	3,319	593		1,803	6,174	14,097	20,272	480		
East North Central.....	240	21	2,368	8,921	1,657		5,695	20,087	51,302	71,389	(D)		
Illinois.....	32	8	746	3,134	612		2,543	10,335	29,563	39,898	(D)		
Michigan.....	82	8	623	2,076	452		1,304	4,142	8,569	12,712	361		
Wisconsin.....	46	1	252	820	179		524	1,022	4,004	5,027	151		
West North Central.....	149	11	1,183	3,755	678	( <sup>2</sup> )	1,849	7,081	13,928	21,009	(D)		
Missouri.....	27	1	146	443	113		280	608	1,933	2,542	123		
South.....	255	28	2,262	6,348	1,506		3,618	12,238	27,165	39,404	1,278		
Maryland.....	7	3	156	500	107		291	843	1,679	2,522	62		
Virginia.....	21	4	265	943	150		411	1,514	3,374	4,888	132		
West Virginia.....	15	1	112	365	62		163	381	1,158	1,539	92		
North Carolina.....	17	2	187	556	120		299	1,173	1,969	3,143	102		
Georgia.....	31	2	231	494	159		313	1,018	3,021	4,040	100		
Florida.....	18	3	195	647	134		377	1,547	2,124	3,672	(D)		
Kentucky.....	11	1	128	409	102		304	687	1,074	1,761	62		
Tennessee.....	10	1	139	462	75		213	875	1,280	2,156	36		
Mississippi.....	8	2	104	253	78		180	698	2,573	3,271	43		
Louisiana.....	31	4	221	584	134		297	1,209	3,800	5,010	166		
Texas.....	30	3	197	529	143		344	1,033	2,373	3,407	(D)		
Mountain.....	61	...	245	669	159		418	1,661	3,287	4,949	194		
Pacific.....	101	14	1,364	5,566	710		2,500	8,140	19,703	27,843	417		
Washington.....	15	1	133	510	61		221	731	1,615	2,347	36		
Oregon.....	15	3	208	863	97		345	1,268	3,420	4,689	61		
California.....	71	10	1,023	4,192	552		1,934	6,140	14,667	20,807	319		
	1954										1947		
	Establishments, number		All employees		Production workers			Value added by manufacture	Cost of materials, etc.	Value of shipments	Capital expenditures, new	All employees, number	Value added by manufacture
	Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)		(\$1,000)
Fluid milk and other products (S.I.C. 2027), total.....	4,994	1,872	177,311	718,960	79,987	176,922	280,142	1,376,698	2,857,296	4,233,983	91,414		
New England.....	507	143	13,686	53,485	5,750	12,179	19,401	96,999	240,292	337,282	5,913		
Maine.....	45	11	755	2,631	327	713	957	4,882	9,887	14,769	492		
New Hampshire.....	43	11	740	2,408	279	637	890	4,152	9,031	13,183	412		
Vermont.....	41	10	704	2,361	508	1,074	1,619	6,107	32,700	38,798	389		
Massachusetts.....	222	66	6,949	26,850	2,824	6,052	9,813	47,688	100,126	147,815	2,516		
Rhode Island.....	35	8	799	3,128	307	661	994	5,230	13,472	18,703	235		
Connecticut.....	121	37	3,736	16,104	1,503	3,040	5,125	28,938	75,074	104,012	1,866	(NA)	(NA)
Middle Atlantic.....	1,206	387	35,428	147,636	17,205	36,065	62,877	268,109	641,423	909,532	18,494		
New York.....	565	157	14,375	60,581	7,924	16,829	30,777	114,690	341,476	456,167	8,008		
New Jersey.....	173	54	5,096	23,282	2,548	5,153	9,730	42,472	90,164	132,636	2,569		
Pennsylvania.....	468	176	15,956	63,772	6,732	14,082	22,369	110,947	209,781	320,728	7,916		
East North Central.....	1,224	482	40,662	177,050	19,818	44,679	73,534	339,145	629,325	968,470	21,885		
Ohio.....	347	160	14,419	63,243	6,317	14,155	23,228	106,453	194,653	301,106	6,699		
Indiana.....	174	83	6,759	27,876	3,336	7,934	11,983	48,011	93,704	141,715	3,151		
Illinois.....	208	96	7,136	32,140	3,928	8,458	14,949	82,855	142,560	225,416	4,017		

See footnotes at end of table.

## DAIRY PRODUCTS

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Table 2.—GENERAL STATISTICS BY REGIONS AND STATES: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Industry, region, and State <sup>1</sup>	1954										1947		
	Establishments, number		All employees		Production workers			Value added by manufacture	Cost of materials, etc.	Value of shipments	Capital expenditures, new	All employees, number	Value added by manufacture
	Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
Fluid milk and other products, etc.—Con.													
East North Central—Con.													
Michigan.....	297	87	7,568	35,517	3,663	8,355	14,748	69,839	121,251	191,091	5,205		
Wisconsin.....	198	56	4,778	18,273	2,571	5,775	8,623	31,985	77,156	109,141	2,811		
West North Central.....	620	160	17,485	69,248	7,720	17,416	25,838	122,766	248,709	371,475	9,739		
Minnesota.....	185	35	4,254	17,414	1,974	4,459	6,925	29,850	71,374	101,225	2,544		
Iowa.....	139	30	2,699	10,144	1,250	2,740	4,011	19,132	42,144	61,276	1,551		
Missouri.....	102	41	5,891	25,509	2,135	4,920	7,700	42,997	71,029	114,027	3,208		
North Dakota.....	13	4	202	639	116	287	353	1,106	3,186	4,292	81		
South Dakota.....	37	10	566	1,791	323	728	912	3,281	8,280	11,562	418		
Nebraska.....	51	16	1,637	6,140	726	1,598	2,293	11,213	20,537	31,750	685		
Kansas.....	93	24	2,232	7,609	1,192	2,682	3,642	15,184	32,157	47,340	1,249		
South Atlantic.....	358	202	21,697	79,114	8,729	20,247	26,838	151,484	301,987	453,473	11,382		
Delaware.....	17	6	547	2,234	257	547	891	3,803	5,763	9,566	221		
Maryland.....	44	26	3,388	13,855	1,326	3,002	4,262	22,722	47,972	70,695	1,844		
District of Columbia....	7	7	1,991	9,314	691	1,409	2,708	16,326	34,082	50,408	569		
Virginia.....	49	34	2,683	9,248	1,250	3,013	3,543	15,118	35,624	50,743	1,212		
West Virginia.....	46	24	2,066	7,263	874	2,071	2,659	14,314	20,958	35,273	1,164		
North Carolina.....	54	37	3,829	13,297	1,673	3,901	5,069	27,729	57,946	85,675	2,459		
South Carolina.....	25	10	996	3,250	376	965	1,206	6,788	14,394	21,183	554		
Georgia.....	58	23	2,647	8,260	1,066	2,478	2,860	15,275	33,007	48,283	1,579		
Florida.....	58	35	3,546	12,391	1,212	2,858	3,636	29,406	52,238	81,645	1,777		
East South Central.....	265	121	9,267	31,574	4,296	10,480	12,469	61,091	123,643	184,733	5,538	(NA)	(NA)
Kentucky.....	84	42	2,587	9,316	1,264	3,261	3,868	18,816	33,903	52,720	1,414		
Tennessee.....	81	38	3,267	11,713	1,476	3,719	4,556	19,569	48,360	67,929	2,152		
Alabama.....	58	25	2,270	7,638	986	2,170	2,700	15,895	25,422	41,317	1,069		
Mississippi.....	42	16	1,141	2,907	568	1,328	1,343	6,810	15,957	22,767	901		
West South Central.....	257	131	14,351	52,105	5,931	13,806	17,545	121,469	214,631	336,100	8,003		
Arkansas.....	42	14	911	2,765	443	986	1,113	7,647	14,617	22,264	723		
Louisiana.....	48	19	2,402	8,604	1,010	2,355	3,139	17,628	34,512	52,141	1,395		
Oklahoma.....	51	21	2,317	8,012	961	2,297	2,870	16,201	27,926	44,127	1,562		
Texas.....	116	77	8,720	32,724	3,517	8,167	10,422	79,992	137,575	217,568	4,322		
Mountain.....	230	67	5,538	20,516	2,712	5,911	8,828	44,053	84,897	128,950	3,487		
Montana.....	37	10	539	1,877	298	653	904	3,995	10,175	14,171	415		
Idaho.....	33	10	582	2,183	302	687	1,025	5,695	10,044	15,740	499		
Wyoming.....	19	5	281	965	171	362	514	1,676	4,114	5,791	166		
Colorado.....	68	19	1,529	5,486	731	1,609	2,396	12,703	23,247	35,951	808		
New Mexico.....	17	6	653	2,218	321	687	868	4,888	7,890	12,778	372		
Arizona.....	22	8	1,074	4,507	410	923	1,523	7,902	17,573	25,475	640		
Utah.....	22	4	535	1,938	258	546	856	3,616	7,235	10,852	288		
Nevada.....	12	5	341	1,340	218	442	739	3,574	4,615	8,190	297		
Pacific.....	327	179	19,194	88,231	7,823	16,134	32,806	171,578	372,386	543,964	6,970		
Washington.....	82	47	3,749	16,167	1,663	3,436	6,812	28,700	69,168	97,869	1,360		
Oregon.....	50	27	2,176	9,867	1,058	2,191	4,004	17,528	41,020	58,549	800		
California.....	195	105	13,269	62,197	5,100	10,506	21,990	125,349	262,197	387,546	4,809		

Note: Detailed figures may not add to the totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>General statistics for some producing States are not shown separately in the table (see INTRODUCTION "Confidentiality of Data for Individual Companies"). Such States are shown below with the number of establishments in each State for 1954 and, in parentheses, the number of employees or the employment-size range for that State for 1954:

S.I.C. 2021, Creamery Butter: New England—Maine, 4 (20-99); New Hampshire, 2 (1-19); Massachusetts, 2 (1-19); Connecticut, 1 (1-19); Middle Atlantic—New Jersey, 11 (20-99); South Atlantic—Maryland, 3 (20-99); Virginia, 10 (100-249); West Virginia, 3 (1-19); North Carolina, 9 (20-99); South Carolina, 4 (1-19); Georgia, 3 (1-19); Florida, 1 (1-19); East South Central—Kentucky, 6 (500-999); Tennessee, 3 (100-249); West South Central—Arkansas, 3 (20-99); Louisiana, 2 (1-19); Mountain—Wyoming, 4 (1-19); New Mexico, 2 (1-19); Arizona, 1 (1-19); Nevada, 1 (1-19).

S.I.C. 2022, Natural Cheese: New England—Maine, 2 (1-19); New Hampshire, 1 (1-19); Connecticut, 6 (20-99); Middle Atlantic—New Jersey, 8 (20-99); West North Central—South Dakota, 4 (20-99); Nebraska, 1 (1-19); South Atlantic—Delaware, 1 (1-19); Maryland, 2 (1-19); District of Columbia, 2 (1-19); Virginia, 1 (1-19); West Virginia, 3 (20-99); North Carolina, 1 (20-99); Georgia, 1 (1-19); East South Central—Alabama, 4 (20-99); West South Central—Arkansas, 7 (100-249); Oklahoma, 2 (20-99); Texas, 4 (20-99); Mountain—Montana, 1 (20-99); Wyoming, 1 (20-99); Colorado, 5 (20-99); Arizona, 3 (20-99); Utah, 8 (20-99); Pacific—Washington, 3 (1-19); Oregon, 23 (250-499).

S.I.C. 2023, Concentrated Milk: New England—Maine, 2 (20-99); Vermont, 2 (1-19); Massachusetts, 2 (1-19); Connecticut, 2 (1-19); Middle Atlantic—New Jersey, 1 (20-99); Pennsylvania, 13 (250-499); West North Central—North Dakota, 1 (1-19); South Dakota, 2 (1-19); Nebraska, 2 (1-19); South Atlantic—Maryland, 2 (100-249); West Virginia, 1 (100-249); North Carolina, 1 (20-99); South Carolina, 1 (20-99); Georgia, 5 (20-99); Florida, 3 (1-19); West South Central—Arkansas, 3 (100-249); Oklahoma, 2 (20-99); Mountain—Colorado, 2 (20-99); Utah, 3 (100-249); Pacific—Washington, 7 (100-249); Oregon, 4 (20-99).

S.I.C. 2024, Ice Cream and Ices: New England—New Hampshire, 9 (20-99); Vermont, 4 (100-249); Rhode Island, 24 (250-499); West North Central—North Dakota, 3 (20-99); South Dakota, 8 (100-249); South Atlantic—Delaware, 6 (100-249); District of Columbia, 9 (500-999); Mountain—Idaho, 8 (20-99); Wyoming, 4 (20-99); New Mexico, 3 (20-99); Nevada, 3 (20-99).

S.I.C. 2025, Special Dairy Products: Northeast—Vermont, 1 (1-19); Massachusetts, 5 (20-99); Rhode Island, 1 (1-19); Connecticut, 1 (1-19); New Jersey, 3 (20-99); Pennsylvania, 12 (100-249); East North Central—Indiana, 3 (100-249); Illinois, 15 (1,558); West North Central—Minnesota, 3 (1-19); Iowa, 1 (1-19); Nebraska, 1 (1-19); Kansas, 1 (1-19); South—Maryland, 3 (1-19); District of Columbia, 1 (1-19); Virginia, 1 (1-19); South Carolina, 1 (1-19); Georgia, 1 (250-499); Florida, 2 (1-19); Kentucky, 3 (1-19); Tennessee, 5 (20-99); Alabama, 2 (20-99); Louisiana, 1 (1-19); Oklahoma, 2 (20-99); Texas, 4 (500-999); Mountain—Idaho, 3 (100-249); Arizona, 1 (1-19); Utah, 1 (1-19); Pacific—Washington, 2 (20-99); California, 12 (100-249).

S.I.C. 2026, Fluid Milk Only: East North Central—Ohio, 51 (250-499); Indiana, 29 (250-499); West North Central—Minnesota, 40 (500-999); Iowa, 33 (250-499); North Dakota, 1 (1-19); South Dakota, 9 (20-99); Nebraska, 10 (20-99); Kansas, 20 (20-99); South—Delaware, 3 (20-99); South Carolina, 14 (20-99); Alabama, 10 (20-99); Arkansas, 15 (20-99); Oklahoma, 14 (20-99); Mountain—Montana, 8 (20-99); Idaho, 8 (20-99); Wyoming, 5 (20-99); Colorado, 17 (20-99); New Mexico, 7 (20-99); Arizona, 7 (1-19); Utah, 7 (1-19); Nevada, 2 (1-19).

<sup>2</sup>Not shown because of the inclusion of a relatively large number of small establishments for which man-hours data were not obtained. The estimated man-hours figure for this industry is included, however, in the totals (shown in state publications and the summary volume) for the 3-digit and 2 digit industry groups.

## MANUFACTURES—INDUSTRY STATISTICS

Table 3.—DETAILED STATISTICS FOR THE UNITED STATES: 1954

(For explanation of line captions see Introduction)

Item	Creamery butter (S.I.C. 2021)		Natural cheese (S.I.C. 2022)		Concentrated milks (S.I.C. 2023)	
	All estab- lishments	Establish- ments with 90% or more primary prod- uct special- ization	All estab- lishments	Establish- ments with 90% or more primary prod- uct special- ization	All estab- lishments	Establish- ments with 90% or more primary prod- uct special- ization
Primary product specialization ratio <sup>1</sup> .....	74	xxx	83	xxx	82	xxx
Coverage ratio <sup>2</sup> .....	77	xxx	74	xxx	68	xxx
Number of establishments, total.....	1,262	767	1,419	1,035	359	216
With 1-19 employees.....	1,014	699	1,237	966	167	125
With 20-99 employees.....	216	67	176	66	163	84
With 100 employees and over.....	32	1	6	3	29	7
All employees:						
Number (average for year).....	21,019	6,492	13,914	6,945	13,310	5,667
Payroll.....\$1,000..	65,601	19,353	42,363	19,780	50,513	20,716
Production workers:						
Number (average for year).....	15,060	4,734	11,343	5,703	10,900	4,753
Man-hours.....1,000..	32,756	10,200	25,672	12,397	24,583	10,648
Wages.....\$1,000..	42,920	13,020	32,826	15,560	39,338	16,713
Value added by manufacture.....do...	136,953	45,391	88,716	41,388	170,566	80,670
Cost of materials, etc.....do...	789,465	307,733	462,443	240,918	517,646	215,116
Value of shipments.....do...	926,414	353,121	551,159	282,306	688,212	295,786
Value added by resales.....do...	9,693	2,931	2,476	1,575	1,708	170
Cost of products bought and resold.....do...	77,690	33,702	26,949	19,176	13,377	2,722
Sales of products bought and resold.....do...	87,383	36,633	29,425	20,751	15,086	2,892
Total inventories, beginning of year.....do...	37,899	13,408	30,880	16,176	44,925	22,656
Total inventories, end of year.....do...	33,858	12,802	30,255	14,991	37,849	17,777
Capital expenditures, new.....do...	13,566	2,778	9,317	4,624	9,818	4,043
Number of employees for selected months:						
March.....	20,656	6,375	13,547	6,789	12,868	5,511
May.....	21,519	6,613	15,018	7,426	10,038	6,009
August.....	21,178	6,636	14,193	6,967	13,865	5,858
November.....	20,721	6,339	12,897	6,598	12,469	5,290
Cost of materials, fuel, electricity and contract work, total.....\$1,000..	789,465	307,733	462,443	240,918	517,646	215,116
Materials, parts, containers, and supplies consumed.....do...	777,083	304,426	453,729	236,872	505,348	209,135
Fuels consumed, total.....do...	8,012	1,793	5,215	2,644	9,572	4,630
Bituminous coal and anthracite:						
Quantity.....1,000 short tons..	363	(NA)	276	(NA)	659	(NA)
Value.....\$1,000..	3,377	(NA)	2,787	(NA)	5,432	(NA)
Coke:						
Quantity.....1,000 short tons..	(4)	(4)	(4)	(4)	(4)	(4)
Value.....\$1,000..	57	5	6	(5)	(5)	(5)
Fuel oil:						
Quantity.....1,000 barrels..	909	(NA)	587	(NA)	891	(NA)
Value.....\$1,000..	2,863	(NA)	1,766	(NA)	2,702	(NA)
Gas:						
Quantity.....million cubic feet..	4,757	(NA)	1,397	(NA)	4,064	(NA)
Value.....\$1,000..	1,434	(NA)	411	(NA)	1,093	(NA)
Other fuels:						
Value.....do...	281	(NA)	234	(NA)	344	(NA)
Electric energy:						
Purchased:						
Quantity.....million kwh..	225	60	116	52	152	76
Cost.....\$1,000..	3,914	1,246	2,209	1,014	2,351	1,107
Generated.....million kwh..	12	...	1	...	64	23
Sold:						
Quantity.....do...	...	...	...	...	(6)	...
Value.....\$1,000..	...	...	...	...	(5)	...
Cost of contract work.....do...	456	268	1,290	388	375	244
Manufacturers' inventories:						
Beginning of year.....do...	37,899	13,408	30,880	16,176	44,925	22,656
Finished products.....do...	27,451	9,610	21,382	10,084	31,754	16,425
Work-in-process.....do...	1,233	667	1,175	872	1,555	1,268
Materials, supplies, fuel, etc.....do...	9,214	3,130	8,322	5,219	11,615	4,962
End of year, total.....do...	33,858	12,802	30,255	14,991	37,849	17,777
Finished products.....do...	23,108	8,885	21,993	10,127	25,138	12,132
Work-in-process.....do...	1,329	705	1,188	886	1,192	904
Materials, supplies, fuel, etc.....do...	9,420	3,210	7,073	3,977	11,517	4,680
Expenditures for plant and equipment, total.....do...	14,588	2,877	9,638	4,752	10,109	4,077
Capital expenditures, new.....do...	13,566	2,778	9,317	4,624	9,818	4,043
New structures and additions to plant.....do...	2,437	(7)	2,240	893	1,525	669
New machinery and equipment.....do...	11,128	2,249	7,076	3,730	8,293	3,373
Expenditures for used plant and equipment.....do...	1,022	(7)	(7)	(7)	(7)	(7)
Horsepower rating of power equipment at end of 1954:						
Horsepower of prime movers and electric motors driven by purchased energy, total.....1,000 hp..	100	24	46	17	128	57
Engines, etc., driving electric generators.....do...	5	(8)	1	(8)	35	10
Engines, etc., not driving electric generators.....do...	10	3	4	2	23	12
Electric motors driven by purchased energy.....do...	85	21	41	15	70	35
Electric motors driven by energy generated at the establishment.....do...	3	...	(8)	...	23	9

See footnotes at end of table.



## DAIRY PRODUCTS

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Table 3.—DETAILED STATISTICS FOR THE UNITED STATES: 1954—Continued

Item	Ice cream and ices (S.I.C. 2024) all estab- lishments	Special dairy products (S.I.C. 2025) all estab- lishments	Fluid milk only (S.I.C. 2026) all estab- lishments	Fluid milk and other dairy products (S.I.C. 2027)	
				All estab- lishments	Establish- ments with 90% or more primary prod- uct special- ization
Primary product specialization ratio <sup>1</sup> .....	93	90	(NA)	(NA)	xxx
Coverage ratio <sup>2</sup> .....	70	56	(NA)	(NA)	xxx
Number of establishments, total.....	1,587	187	1,695	4,994	2,786
With 1-19 employees.....	1,110	126	1,556	3,122	2,110
With 20-99 employees.....	418	45	126	1,453	552
With 100 employees and over.....	59	16	13	419	124
All employees:					
Number (average for year).....	36,488	7,300	14,086	177,311	65,615
Payroll.....\$1,000..	134,171	26,595	48,085	718,960	274,054
Production workers:					
Number (average for year).....	20,982	5,847	9,074	79,987	29,540
Man-hours.....1,000..	42,422	11,701	( <sup>3</sup> )	176,922	162,961
Wages.....do....	64,193	20,050	27,692	280,142	105,055
Value added by manufacture.....do....	327,898	56,965	98,940	1,376,698	520,187
Cost of materials, etc.....do....	399,534	238,372	253,827	2,857,296	1,079,504
Value of shipments.....do....	727,433	295,337	352,767	4,233,983	1,599,692
Value added by resales.....do....	8,518	1,165	3,770	35,945	12,122
Cost of products bought and resold.....do....	37,539	45,088	17,620	222,363	82,952
Sales of products bought and resold.....do....	46,058	46,253	21,390	258,308	95,074
Total inventories, beginning of year.....do....	50,373	49,525	11,222	126,998	39,883
Total inventories, end of year.....do....	49,741	45,024	11,813	128,196	41,234
Capital expenditures, new.....do....	25,733	5,776	7,496	91,414	31,635
Number of employees for selected months:					
March.....	33,625	7,169	13,852	173,655	61,660
May.....	37,979	7,226	14,058	177,580	62,399
August.....	40,752	7,344	14,353	182,036	63,973
November.....	33,597	7,463	14,081	175,972	63,043
Cost of materials, fuel, electricity and contract work, total.....\$1,000..	399,534	238,372	253,827	2,857,296	1,079,504
Materials, parts, containers, and supplies consumed.....do....	388,010	235,986	248,315	2,798,460	1,057,805
Fuels consumed, total.....do....	3,332	1,446	2,527	34,868	12,490
Bituminous coal and anthracite:					
Quantity.....1,000 short tons..	52	99	105	1,306	(NA)
Value.....\$1,000..	694	769	1,044	11,855	(NA)
Coke:					
Quantity.....1,000 short tons..	( <sup>4</sup> )	( <sup>4</sup> )	2	1	( <sup>4</sup> )
Value.....\$1,000..	8	( <sup>5</sup> )	34	21	( <sup>5</sup> )
Fuel oil:					
Quantity.....1,000 barrels..	305	118	264	2,340	(NA)
Value.....\$1,000..	1,178	376	1,065	9,020	(NA)
Gas:					
Quantity.....million cubic feet..	3,164	478	1,762	54,957	(NA)
Value.....\$1,000..	938	175	197	9,032	(NA)
Other fuels:					
Value.....do....	522	125	187	4,940	(NA)
Electric energy:					
Purchased:					
Quantity.....million kwh..	442	53	106	1,339	424
Cost.....\$1,000..	6,871	796	2,069	20,635	7,254
Generated.....million kwh..	3	2	...	18	1
Sold:					
Quantity.....do....	1	( <sup>6</sup> )	...	...	...
Value.....\$1,000..	18	( <sup>5</sup> )	...	...	...
Cost of contract work.....do....	1,321	144	916	3,333	1,955
Manufacturers' inventories:					
Beginning of year, total.....do....	50,373	49,525	11,222	126,998	39,883
Finished products.....do....	17,487	27,824	6,825	59,103	19,973
Work in process.....do....	1,277	992	975	7,577	2,812
Materials, supplies, fuel, etc.....do....	31,609	20,708	3,422	60,318	17,098
End of year, total.....do....	49,741	45,024	11,813	128,196	41,234
Finished products.....do....	16,801	22,767	7,074	57,933	21,029
Work-in-process.....do....	977	934	1,222	7,487	2,843
Materials, supplies, fuel, etc.....do....	31,961	21,322	3,517	62,776	17,362
Expenditures for plant and equipment, total.....do....	28,454	5,825	7,831	95,659	32,753
Capital expenditures, new.....do....	25,733	5,776	7,496	91,414	31,635
New structures and additions to plant.....do....	4,255	2,322	1,222	18,608	5,680
New machinery and equipment.....do....	21,478	3,453	6,274	72,805	25,954
Expenditures for used plant and equipment.....do....	2,721	( <sup>7</sup> )	( <sup>7</sup> )	4,245	1,118
Horsepower rating of power equipment at end of 1954:					
Horsepower of prime movers and electric motors driven by purchased energy, total.....1,000 hp..	223	33	25	556	161
Engines, etc., driving electric generators.....do....	6	3	1	20	2
Engines, etc., not driving electric generators.....do....	4	2	2	28	9
Electric motors driven by purchased energy.....do....	213	28	22	508	150
Electric motors driven by energy generated at the establishment.....do....	( <sup>8</sup> )	1	( <sup>8</sup> )	3	( <sup>8</sup> )

Note: Detailed figures may not add to the totals because of independent rounding. xxx Not applicable. NA Not available. <sup>1</sup>The specialization ratio compares the given industry's shipments of its primary products to its total shipments of all products. (The primary products are listed in Table 5B and 6A.) Columns containing totals for establishments with 90% or more primary product specialization are shown only for those industries having a primary product specialization of less than 90%. <sup>2</sup>The coverage ratio measures the extent to which the total shipments of products primary to the given industry are shipped by establishments classified in that industry. <sup>3</sup>Not shown because of the inclusion of a relatively large number of small establishments for which man-hour figures were estimated. The data for this industry are included, however in the totals (shown in State publications and the summary volume) for the 3-digit and 2-digit industry groups. <sup>4</sup>Less than 500 tons. <sup>5</sup>Less than \$5,000. <sup>6</sup>Less than 500 thousand kwh. <sup>7</sup>Less than \$500 thousand. <sup>8</sup>Less than 500 hp.

## MANUFACTURES--INDUSTRY STATISTICS

Table 4.—SELECTED STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR THE UNITED STATES: 1954

(Value figures in thousands of dollars. For explanation of line captions see Introduction. Data which cannot be shown without disclosing information for individual companies have been combined with figures for other size classes. A (D) appears in the column where the figure has been omitted and the combined figure is underlined and shown in the size-class to the left)

Ind. code	Industry and item	Total, all establishments	Establishments with an average of—									
			1-4 em- ployees	5-9 em- ployees	10-19 em- ployees	20-49 em- ployees	50-99 em- ployees	100-249 employees	250-499 employees	500-999 employees	1,000-2,499 employees	2,500 employees and over
2021	Creamery butter:											
	Number of establishments...	1,262	485	310	219	162	54	26	6	...	...	...
	Number of employees.....	21,019	1,393	2,190	3,062	5,015	3,785	3,436	2,136	...	...	...
	Value added by manufacture.	136,953	6,840	12,409	21,897	34,060	24,447	22,478	14,818	...	...	...
2022	Natural cheese:											
	Number of establishments...	1,419	814	258	165	135	41	5	1	...	...	...
	Number of employees.....	13,914	2,080	1,776	2,326	4,095	2,672	962	(D)	...	...	...
	Value added by manufacture.	88,716	11,684	8,181	13,036	28,104	21,080	<u>6,628</u>	(D)	...	...	...
2023	Concentrated milk:											
	Number of establishments...	359	74	38	55	91	72	28	1	...	...	...
	Number of employees.....	13,310	219	286	813	2,937	5,051	<u>4,001</u>	(D)	...	...	...
	Value added by manufacture.	170,566	3,097	2,573	10,218	33,186	67,769	<u>53,720</u>	(D)	...	...	...
2024	Ice cream and ices:											
	Number of establishments...	1,587	525	278	307	298	120	47	8	4	...	...
	Number of employees.....	36,488	1,300	2,026	4,388	9,131	8,161	6,749	2,579	2,150	...	...
	Value added by manufacture.	327,898	6,920	11,318	30,318	71,555	85,688	73,669	27,658	20,769	...	...
2025	Special dairy products:											
	Number of establishments...	187	45	44	37	22	23	12	3	...	1	...
	Number of employees.....	7,300	113	320	516	683	1,639	<u>4,028</u>	(D)	...	(D)	...
	Value added by manufacture.	56,965	740	2,222	4,687	7,417	11,811	<u>30,085</u>	(D)	...	(D)	...
2026	Fluid milk, only:											
	Number of establishments...	1,695	1,022	358	176	100	26	13	...	...	...	...
	Number of employees.....	14,086	2,603	2,537	2,470	3,050	1,753	1,672	...	...	...	...
	Value added by manufacture.	98,940	15,695	13,625	15,038	20,362	18,408	15,809	...	...	...	...
2027	Fluid milk & other products:											
	Number of establishments...	4,994	1,238	947	937	961	492	320	79	19	1	...
	Number of employees.....	177,311	3,350	6,880	13,372	30,569	34,037	49,075	26,261	<u>13,764</u>	(D)	...
	Value added by manufacture.	1,376,698	23,025	41,849	80,746	205,792	260,128	407,089	241,010	<u>117,057</u>	(D)	...

Note: Detailed figures may not add to the totals because of independent rounding.

Table 5A.—INDUSTRY-PRODUCT ANALYSIS—SUMMARY OF INDUSTRY AND PRIMARY PRODUCT SHIPMENTS, SPECIALIZATION RATIOS AND COVERAGE RATIOS FOR THE UNITED STATES: 1954 AND 1947

Industry code	Industry and census year	Value of shipments					Value of primary products shipped			
		Total	Primary products	Secondary products	Miscel- laneous receipts	Primary product speciali- zation ratio <sup>1</sup>  Col. B Col. B+C (Percent)	Total (made in all industries)	Made in this industry	Made in other industries	Coverage ratio <sup>2</sup>  Col. G Col. F (Percent)
(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(E)	(\$1,000)	(\$1,000)	(\$1,000)	(I)		
(A)	(B)	(C)	(D)		(F)	(G)	(H)			
2021	Creamery butter.....1954..	926,414	664,676	227,832	33,906	74	858,525	664,676	193,849	77
	.....1947..	1,005,890	784,594	211,238	10,058	79	932,726	784,594	148,132	84
2022	Natural cheese.....1954..	551,159	456,803	94,295	60	83	613,197	456,803	156,394	74
	.....1947..	469,127	379,992	75,062	14,073	84	455,494	379,992	75,502	83
2023	Concentrated milk.....1954..	688,212	565,698	122,320	194	82	836,908	565,698	271,210	68
	.....1947..	781,395	656,371	124,243	781	84	854,269	656,371	197,898	77
2024	Ice cream and ices.....1954..	727,433	671,414	54,099	1,920	93	954,337	671,414	282,923	70
	.....1947..	772,501	695,250	76,479	772	90	802,002	695,250	106,752	87
2025	Special dairy products.....1954..	295,337	265,312	28,340	1,685	90	474,735	265,312	209,423	56
	.....1947..	293,100	263,790	26,966	2,344	91	(NA)	263,790	(NA)	(NA)
2026	Fluid milk.....1954..	4,586,750	3,741,562	811,622	33,566	82	3,969,143	3,741,562	227,581	94
2027	Fluid milk and other products.....1947..	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)

NA Not available.

<sup>1</sup>The specialization ratio compares the given industry's shipments of its primary products to its total shipments of all products. (The primary products are listed in Tables 5B and 6A.)

<sup>2</sup>The coverage ratio measures the extent to which the total shipments of products primary to the given industry are shipped by establishments classified in that industry.

## DAIRY PRODUCTS

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Table 5B.—INDUSTRY-PRODUCT ANALYSIS—SHIPMENTS BY PRODUCT CLASS AND INDUSTRY, FOR THE UNITED STATES: 1954

(In thousands of dollars. Each column shows for the industry listed in the column heading, the value of shipments divided between dairy products, other products, and miscellaneous receipts. Each figure represents the amount of the product class shown at the left shipped by the industry listed at the top of the column. The first four digits of the product class codes at the left represent the codes of the industries to which they are primary. All other product classes in a column represent products secondary to the specified industry)

Prod. class code		Creamery butter (S.I.C. 2021)	Natural cheese (S.I.C. 2022)	Concentrated milk (S.I.C. 2023)	Ice cream and ices (S.I.C. 2024)	Special dairy products (S.I.C. 2025)	Fluid milk only (S.I.C. 2026)	Fluid milk and other products (S.I.C. 2027)	Poultry dressing plants (S.I.C. 2015)	Other industries	All industries
	Total shipments of the industry.....	926,414	551,159	688,212	727,433	295,337	352,767	4,233,983	xxx	xxx	xxx
202	Dairy products.....	867,783	551,028	685,789	721,410	292,925	336,691	4,130,666	xxx	xxx	xxx
20210	Creamery butter.....	664,676	23,505	34,430	7,913	2,310	...	108,069	11,810	5,812	858,525
20220	Natural cheese.....	19,155	456,803	4,230	1,900	13,602	xxx	114,030	(1)	3,400	613,197
20231	Dry milk products.....	74,488	7,166	132,046	635	4,104	...	57,715	820	136	277,110
20232	Canned milk (including canned, evaporated and condensed).....	3,730	373	320,962	128	...	...	12,159	...	3,815	341,167
20233	Bulk evaporated and condensed milk products.....	3,988	2,118	55,925	(1)	279	...	28,609	(1)	(1)	91,115
20234	Ice cream mix and ice milk mix.....	4,815	1,424	48,770	13,418	200	xxx	49,292	xxx	1,567	119,486
20230	Concentrated milk, not specified by kind.....	(1)	...	7,995	...	...	xxx	(1)	...	(1)	8,030
20240	Ice cream and ices.....	15,983	1,040	4,808	671,414	906	xxx	254,757	639	4,790	954,337
20251	Special dairy products.....	2,582	2,627	2,098	2,543	46,314	xxx	173,924	(1)	5,061	235,156
20252	Process cheese and related products...	2,042	12,927	(1)	...	218,142	...	933	...	2,665	236,723
20250	Special dairy products, not specified by kind.....	(1)	(1)	...	(1)	856	...	1,821	(1)	(1)	2,856
20271	Bulk fluid milk and cream.....	47,386	35,726	71,346	1,710	5,145	65,250	486,615	336	2,084	715,598
20272	Bottled fluid milk and cream.....	28,396	7,238	3,165	21,185	1,067	264,280	2,758,907	(1)	1,660	3,085,970
20270	Fluid milk, not specified by kind.....	455	(1)	...	451	...	18,407	148,103	(1)	(1)	167,575
	Products not primary to group 202.....	24,725	71	2,229	4,103	727	(1)	10,185	xxx	xxx	xxx
20151	Chickens and fowl.....	10,299	(1)	...	(D)	...	...	(D)	xxx	xxx	xxx
20153	Dressed turkeys.....	7,667	...	...	(D)	...	...	...	xxx	xxx	xxx
20810	Bottled soft drinks and carbonated waters.....	(1)	...	(D)	(D)	(D)	(D)	3,682	xxx	xxx	xxx
20994	Eggs, liquid, dried and frozen.....	5,357	(1)	...	(D)	(D)	...	(D)	xxx	xxx	xxx
	Other secondary products.....	1,388	(1)	2,229	3,346	(D)	(D)	6,092	xxx	xxx	xxx
	Miscellaneous receipts.....	33,906	60	194	1,920	1,685	4,733	28,833	xxx	xxx	xxx
	Shell eggs.....	28,746	(1)	(D)	430	(D)	858	21,717	xxx	xxx	xxx
	Other miscellaneous receipts.....	5,160	(1)	(D)	1,490	(D)	3,875	7,116	xxx	xxx	xxx

xxx Not applicable.

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>Less than \$100 thousand.



## MANUFACTURES--INDUSTRY STATISTICS

Table 6A.—QUANTITY AND VALUE OF PRODUCTS SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, FOR THE UNITED STATES: 1954 AND 1947

Product code	Product	Unit of quantity	Total shipments including interplant transfers			
			1954		1947	
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
2021011	Butter.....	Thousand pounds.	1,414,332	858,525	1,329,457	932,726
2022---	Natural cheese, total.....	.....	xxx	613,197	xxx	455,494
	Cottage, pot, and bakers' cheese:					
2022011	Cheese creamed to 4% butterfat content.....	Thousand pounds.	593,995	117,027	2,389,486	260,368
2022015	Other (including curd and partly creamed).....	.....do.....	164,303	33,536		
2022098	Natural cheese, except cottage, pot, and bakers' (cheddar, colby, brick, cream, foreign types, etc.).....	.....do.....	1,234,199	438,575	1,014,467	395,126
2022000	Natural cheese, not specified by kind.....	.....do.....	xxx	24,059	...	...
2023---	Concentrated milk, total.....	.....	xxx	836,908	xxx	854,269
20231	Dry milk products.....	.....	xxx	277,110	xxx	153,653
2023111	Non-fat dry milk solids.....	Thousand pounds.	1,472,579	218,805	1,140,240	153,653
2023115	Other dry milk products.....	.....do.....	351,688	58,305		
20232	Canned milk (including canned evaporated and condensed).....	.....	xxx	341,167	xxx	427,939
2023211	Condensed and canned in same plant.....	Thousand pounds.	2,732,654	341,167	3,375,970	427,939
2023215	Condensed and canned at separate locations <sup>3</sup> .....	.....do.....				
20233	Bulk evaporated and condensed milk (including buttermilk and whey).....	.....	xxx	91,115	xxx	157,521
2023311	For human consumption.....	Thousand pounds.	935,904	64,456	2,279,949	157,521
2023315	For use in animal feed.....	.....do.....	470,256	26,659		
2023411	Ice cream mix and ice milk mix (includes paste or dry mix in terms of liquid equivalent).....	Thousand gallons	99,779	119,486	81,550	115,156
2023000	Concentrated milk, not specified by kind.....	.....	xxx	8,030	...	...
2024---	Ice cream and ices, total.....	.....	xxx	954,337	xxx	802,002
2024011	Ice cream.....	Thousand gallons	483,700	762,762	1,588,858	1,792,063
2024051	Water ices.....	.....do.....	22,654	28,083	9,454	9,939
2024071	Mellorine and similar frozen desserts (containing vegetable fats or oils).....	.....do.....	24,587	25,772	...	...
2024098	Other frozen dairy foods (sherberts, ice milk, custards, etc.)..	.....do.....	53,472	70,405	(1)	(1)
2024000	Ice cream and ices, not specified by kind.....	.....	xxx	67,315	...	...
2025---	Special dairy products, total.....	.....	xxx	474,735	xxx	(NA)
20251	Special dairy products, except process cheese.....	.....	xxx	235,156	xxx	128,960
2025111	Malted milk powder.....	Thousand pounds.	31,303	9,616	40,567	11,602
2025131	Cultured buttermilk, chocolate milk, eggnog, and other "dairy drinks".....	Thousand quarts.	905,774	170,684	(2)	(2)
2025141	Ready-whipped cream.....	Thousand pounds.	21,111	16,878	(NA)	(NA)
2025161	Casein.....	.....do.....	5,919	2,539	(NA)	5,733
2025171	Dietary supplements, including infants' other than vitamins (50% or more milk solids).....	.....	xxx	25,749	xxx	37,205
2025198	Other special dairy products.....	.....	xxx	7,320		
2025100	Special dairy products, except process cheese, not specified by kind.....	.....	xxx	2,370	...	...
20252	Process cheese and related products.....	.....	xxx	236,723	xxx	234,327
2025211	Process cheese.....	Thousand pounds.	409,029	142,139	598,564	234,327
2025213	Cheese food.....	.....do.....	130,614	42,546		
2025215	Cheese spread.....	.....do.....	101,307	39,049		
2025298	Other related cheese products made from natural cheese.....	.....do.....	28,393	12,004		
2025200	Process cheese and related products, not specified by kind..	.....do.....	xxx	985		
2025000	Special dairy products, not specified by kind.....	.....	xxx	2,856	...	...
2027---	Fluid milk and cream, total.....	.....	xxx	3,969,143	(2)	(2)
20271	Bulk fluid milk and cream.....	.....	xxx	715,598		
2027111	Bulk milk.....	Thousand pounds.	8,681,901	371,588		
2027151	Bulk cream.....	.....do.....	1,089,654	328,425		
2027100	Bulk fluid milk and cream, not specified by kind.....	.....	xxx	15,585		
20272	Bottled fluid milk and cream (including bulk milk sold to hotels, restaurants and institutions).....	.....	xxx	3,085,970		
2027211	Paperboard cartons.....	Thousand quarts.	5,815,960	1,107,894		
	Glass and other containers:					
2027221	Wholesale routes.....	.....do.....	2,995,668	560,717		
2027225	Retail routes.....	.....do.....	5,179,917	1,126,866		
2027251	Bottled cream.....	.....do.....	463,057	256,227		
2027200	Bottled fluid milk and cream, not specified by kind.....	.....	xxx	34,266		
2027000	Fluid milk, bulk or bottled, not specified by kind.....	.....	xxx	167,575		

xxx Not applicable.

NA Not available.

<sup>1</sup>Code 2024098 has been combined with code 2024011.<sup>2</sup>These products are largely produced by fluid milk plants, only part of which were included in the 1947 Census. Data on the total shipments of these products for 1947 are therefore, not available.<sup>3</sup>The relatively small amount reported under product code 2023215 was combined with product code 2023211 to avoid disclosure of individual company operations.

## DAIRY PRODUCTS

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Table 6B.—VALUE OF PRODUCT CLASSES SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, BY DIVISIONS AND STATES FOR 1954, AND UNITED STATES TOTALS FOR EARLIER YEARS

(In thousands of dollars. Statistics are shown for selected product classes which are economically significant and production of which is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (Table 2) and they are not miscellaneous or "not specified by type" classes. For each product class, States are listed only if the value of shipments is more than \$1 million and the figure does not disclose individual company information. Additional States which had shipments of more than \$1 million of the individual product classes are listed in footnote 1)

Product class, region, and State <sup>1</sup>	Value of shipments	Product class, region, and State <sup>1</sup>	Value of shipments	Product class, region, and State <sup>1</sup>	Value of shipments
<u>Creamery butter (20210)</u>		<u>Natural cheese (20220)—Continued</u>		<u>Dry milk products (20231)—Continued</u>	
1954 United States, total.....	858,525	Middle Atlantic.....	62,543	East North Central.....	135,599
1947 United States, total.....	932,726	New York.....	46,128	Ohio.....	19,239
1954		New Jersey.....	3,279	Indiana.....	8,232
New England.....	5,396	Pennsylvania.....	13,135	Illinois.....	11,124
Maine.....	1,890	East North Central.....	308,456	Michigan.....	13,252
Massachusetts.....	1,695	Ohio.....	24,097	Wisconsin.....	83,711
Middle Atlantic.....	63,296	Indiana.....	22,353	West North Central.....	61,146
New York.....	46,069	Illinois.....	43,590	Minnesota.....	42,575
New Jersey.....	5,240	Michigan.....	18,263	Iowa.....	5,382
Pennsylvania.....	11,986	Wisconsin.....	200,152	Missouri.....	9,133
East North Central.....	253,088	West North Central.....	88,212	Nebraska.....	1,022
Ohio.....	43,853	Minnesota.....	31,172	Kansas.....	2,644
Indiana.....	20,567	Iowa.....	11,470	South Atlantic.....	3,089
Illinois.....	35,155	Missouri.....	35,519	Virginia.....	1,394
Michigan.....	33,011	South Dakota.....	1,641	East South Central.....	3,067
Wisconsin.....	120,501	Nebraska.....	1,408	Tennessee.....	1,069
West North Central.....	382,331	Kansas.....	6,844	West South Central.....	1,169
Minnesota.....	131,085	South Atlantic.....	12,380	Mountain.....	9,603
Iowa.....	93,042	Maryland.....	2,605	Idaho.....	8,556
Missouri.....	42,658	District of Columbia.....	2,207	Pacific.....	20,293
North Dakota.....	29,003	Virginia.....	1,927	Washington.....	1,955
South Dakota.....	17,761	West Virginia.....	1,225	Oregon.....	2,003
Nebraska.....	41,999	North Carolina.....	1,832	California.....	16,335
Kansas.....	26,781	Florida.....	1,630		
South Atlantic.....	13,607	East South Central.....	34,131	<u>Canned milk including canned</u>	
Maryland.....	3,647	Kentucky.....	10,902	<u>evaporated and condensed (20232)</u>	
Virginia.....	4,339	Tennessee.....	16,105	1954 United States, total.....	341,167
West Virginia.....	1,012	Alabama.....	1,731	1947 United States, total.....	427,939
North Carolina.....	2,146	Mississippi.....	5,393	1954	
East South Central.....	23,420	West South Central.....	17,517	Middle Atlantic.....	10,454
Kentucky.....	10,801	Arkansas.....	5,748	East North Central.....	132,275
Tennessee.....	7,115	Oklahoma.....	3,091	Ohio.....	27,559
Mississippi.....	5,423	Texas.....	7,968	Indiana.....	13,522
West South Central.....	23,322	Mountain.....	24,665	Illinois.....	18,133
Arkansas.....	2,729	Montana.....	1,847	Michigan.....	18,689
Oklahoma.....	13,385	Idaho.....	13,516	Wisconsin.....	54,370
Texas.....	6,393	Colorado.....	2,648	West North Central.....	34,760
Mountain.....	36,371	Arizona.....	1,019	Missouri.....	18,973
Montana.....	3,620	Utah.....	4,175	South Atlantic.....	26,246
Idaho.....	15,147	Pacific.....	54,010	East South Central.....	60,317
Colorado.....	10,463	Washington.....	5,857	Tennessee.....	21,573
Utah.....	4,539	Oregon.....	17,370	West South Central.....	9,151
Pacific.....	57,696	California.....	30,782	West.....	67,964
Washington.....	11,569	<u>Dry milk products (20231)</u>		<u>Bulk evaporated and condensed milk</u>	
Oregon.....	15,815	1954 United States, total.....	277,110	<u>products (20233)</u>	
California.....	30,311	1947 United States, total.....	153,653	1954 United States, total.....	91,115
<u>Natural cheese (20220)</u>		1954		1947 United States, total.....	157,521
1954 United States, total.....	613,197	New England.....	3,396	1954	
1947 United States, total.....	455,494	Vermont.....	2,482	New England.....	4,384
1954		Middle Atlantic.....	39,794	Middle Atlantic.....	17,018
New England.....	11,286	New York.....	35,435	New York.....	9,862
Vermont.....	4,631	Pennsylvania.....	4,310	Pennsylvania.....	7,150
Massachusetts.....	3,558				
Connecticut.....	1,816				

See footnotes at end of table.

## MANUFACTURES--INDUSTRY STATISTICS

Table 6B.—VALUE OF PRODUCT CLASSES SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, BY DIVISIONS AND STATES FOR 1954, AND UNITED STATES TOTALS FOR EARLIER YEARS—Continued

Product class, region, and State <sup>1</sup>	Value of shipments	Product class, region, and State <sup>1</sup>	Value of shipments	Product class, region, and State <sup>1</sup>	Value of shipments
<u>Bulk evaporated and condensed milk products (20233)—Continued</u>		<u>Ice cream mix and ice milk mix (20234)—Continued</u>		<u>Special dairy products, except process cheese (20251)</u>	
East North Central.....	39,145	Pacific.....	13,396	1954 United States, total.....	235,156
Ohio.....	3,915	Washington.....	2,615	1947 United States, total.....	128,960
Indiana.....	4,084	Oregon.....	1,186	1954	
Illinois.....	7,941	California.....	9,595	New England.....	6,880
Michigan.....	3,402			Massachusetts.....	2,520
Wisconsin.....	19,802			Connecticut.....	3,046
West North Central.....	12,042	<u>Ice cream and ices (20240)</u>		Middle Atlantic.....	38,343
Minnesota.....	2,076	1954 United States, total.....	954,337	New York.....	18,172
Iowa.....	2,986	1947 United States, total.....	802,002	New Jersey.....	4,544
Missouri.....	5,173	1954		Pennsylvania.....	15,627
Kansas.....	1,397	New England.....	65,121	East North Central.....	82,470
South Atlantic.....	5,569	Maine.....	6,375	Ohio.....	16,213
Virginia.....	3,067	New Hampshire.....	2,543	Indiana.....	7,094
Georgia.....	1,335	Vermont.....	2,251	Illinois.....	14,938
East South Central.....	3,612	Massachusetts.....	33,555	Michigan.....	25,347
Kentucky.....	1,732	Rhode Island.....	6,357	Wisconsin.....	18,877
Tennessee.....	1,000	Connecticut.....	14,038	West North Central.....	13,399
West South Central.....	1,937	Middle Atlantic.....	243,266	Minnesota.....	2,283
Mountain.....	738	New York.....	108,253	Iowa.....	1,753
Pacific.....	6,671	New Jersey.....	25,588	Missouri.....	6,502
California.....	5,815	Pennsylvania.....	109,424	Nebraska.....	1,002
<u>Ice cream mix and ice milk mix (20234)</u>		East North Central.....	202,247	Kansas.....	1,496
1954 United States, total.....	119,486	Ohio.....	56,861	South Atlantic.....	31,154
1947 United States, total.....	115,156	Indiana.....	25,667	Maryland.....	3,795
1954		Illinois.....	52,791	District of Columbia.....	2,151
New England.....	7,210	Michigan.....	39,784	Virginia.....	3,392
Massachusetts.....	2,966	Wisconsin.....	27,143	West Virginia.....	1,855
Connecticut.....	3,046	West North Central.....	93,276	North Carolina.....	7,029
Middle Atlantic.....	26,736	Minnesota.....	21,277	South Carolina.....	1,936
New York.....	12,690	Iowa.....	19,776	Georgia.....	4,431
New Jersey.....	3,519	Missouri.....	25,238	Florida.....	6,185
Pennsylvania.....	9,527	North Dakota.....	2,474	East South Central.....	12,881
East North Central.....	35,098	South Dakota.....	5,622	Kentucky.....	3,517
Ohio.....	7,133	Nebraska.....	9,140	Tennessee.....	5,095
Indiana.....	3,996	Kansas.....	9,748	Alabama.....	3,043
Illinois.....	7,008	South Atlantic.....	109,083	Mississippi.....	1,225
Michigan.....	9,703	Maryland.....	16,108	West South Central.....	16,667
Wisconsin.....	7,257	District of Columbia.....	9,286	Arkansas.....	1,696
West North Central.....	10,948	Virginia.....	13,460	Louisiana.....	1,696
Minnesota.....	2,891	West Virginia.....	9,000	Oklahoma.....	2,551
Iowa.....	3,117	North Carolina.....	21,576	Texas.....	10,723
Missouri.....	2,166	Georgia.....	11,790	Mountain.....	5,622
Kansas.....	1,413	Florida.....	20,464	Idaho.....	1,672
South Atlantic.....	9,995	East South Central.....	44,719	Colorado.....	1,850
Virginia.....	2,468	Kentucky.....	8,694	Pacific.....	27,746
North Carolina.....	1,906	Tennessee.....	17,351	Washington.....	2,327
Georgia.....	2,592	Alabama.....	13,186	Oregon.....	1,024
Florida.....	1,057	Mississippi.....	5,486	California.....	24,394
East South Central.....	6,489	West South Central.....	72,391		
Kentucky.....	2,180	Arkansas.....	4,438	<u>Process cheese and related products (20252)</u>	
Tennessee.....	3,195	Louisiana.....	14,517	1954 United States, total.....	236,723
West South Central.....	6,378	Oklahoma.....	10,435	1947 United States, total.....	234,327
Arkansas.....	1,513	Texas.....	43,000	1954	
Oklahoma.....	1,268	Mountain.....	28,691	New England.....	1,796
Texas.....	3,073	Montana.....	2,685	Massachusetts.....	1,796
Mountain.....	3,232	Idaho.....	3,350	Middle Atlantic.....	19,294
		Colorado.....	8,537	New York.....	6,762
		New Mexico.....	2,537	New Jersey.....	2,562
		Arizona.....	4,696	Pennsylvania.....	9,969
		Utah.....	4,118		
		Nevada.....	1,930		
		Pacific.....	95,543		
		Washington.....	14,023		
		Oregon.....	9,221		
		California.....	72,299		

See footnotes at end of table.



## DAIRY PRODUCTS

20B-19

Table 6B.—VALUE OF PRODUCT CLASSES SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, BY DIVISIONS AND STATES FOR 1954, AND UNITED STATES TOTALS FOR EARLIER YEARS—Continued

Product class, region, and State <sup>1</sup>	Value of shipments	Product class, region, and State <sup>1</sup>	Value of shipments	Product class, region, and State <sup>1</sup>	Value of shipments
<u>Process cheese and related products</u> (20252)—Continued		<u>Bulk fluid milk and cream</u> (20271)—Continued		<u>Bottled fluid milk and cream</u> (20272)—Continued	
East North Central.....	146,641	South Atlantic.....	39,450	East North Central.....	695,658
Ohio.....	11,871	Maryland.....	13,933	Ohio.....	195,711
Wisconsin.....	55,487	Virginia.....	9,263	Indiana.....	87,401
West North Central.....	20,063	West Virginia.....	1,455	Illinois.....	197,135
Minnesota.....	1,369	North Carolina.....	8,834	Michigan.....	153,524
Missouri.....	18,468	Georgia.....	2,827	Wisconsin.....	61,887
South.....	34,630	Florida.....	1,800	West North Central.....	261,735
East South Central.....	2,431	East South Central.....	33,753	Minnesota.....	63,697
Tennessee.....	1,982	Kentucky.....	8,599	Iowa.....	48,927
Mountain.....	9,418	Tennessee.....	15,091	Missouri.....	80,358
Pacific.....	4,881	Alabama.....	3,399	North Dakota.....	5,871
		Mississippi.....	6,663	South Dakota.....	9,033
		West South Central.....	20,993	Nebraska.....	24,005
		Arkansas.....	5,756	Kansas.....	29,843
<u>Bulk fluid milk and cream</u> (20271)		Louisiana.....	3,933	South Atlantic.....	344,016
1954 United States, total.....	715,598	Oklahoma.....	2,453	Delaware.....	8,345
1947 United States, total.....	( <sup>2</sup> )	Texas.....	8,850	Maryland.....	48,886
1954		Mountain.....	14,731	District of Columbia.....	45,533
New England.....	81,731	Idaho.....	2,557	Virginia.....	33,990
Maine.....	2,445	Colorado.....	4,406	West Virginia.....	28,438
New Hampshire.....	1,666	New Mexico.....	3,377	North Carolina.....	55,254
Vermont.....	25,817	Arizona.....	1,074	South Carolina.....	17,708
Massachusetts.....	25,417	Utah.....	1,877	Georgia.....	38,590
Connecticut.....	25,699	Pacific.....	85,137	Florida.....	67,272
Middle Atlantic.....	165,713	Washington.....	11,469	East South Central.....	126,800
New York.....	118,176	Oregon.....	11,999	Kentucky.....	37,123
New Jersey.....	10,937	California.....	61,669	Tennessee.....	43,908
Pennsylvania.....	36,600			Alabama.....	29,694
East North Central.....	198,921	<u>Bottled fluid milk and cream</u> (20272)		Mississippi.....	16,075
Ohio.....	42,759	1954 United States, total.....	3,085,970	West South Central.....	203,121
Indiana.....	26,504	1947 United States, total.....	( <sup>2</sup> )	Arkansas.....	15,489
Illinois.....	31,194	1954		Louisiana.....	37,213
Michigan.....	27,581	New England.....	263,620	Oklahoma.....	23,304
Wisconsin.....	70,882	Maine.....	15,369	Texas.....	127,115
West North Central.....	75,169	New Hampshire.....	12,644	Mountain.....	86,591
Minnesota.....	30,341	Vermont.....	11,150	Montana.....	11,125
Iowa.....	10,541	Massachusetts.....	131,846	Idaho.....	10,706
Missouri.....	21,131	Rhode Island.....	21,077	Wyoming.....	4,726
North Dakota.....	1,087	Connecticut.....	71,534	Colorado.....	24,368
Nebraska.....	2,369	Middle Atlantic.....	732,825	New Mexico.....	6,063
Kansas.....	8,881	New York.....	353,722	Arizona.....	16,171
		New Jersey.....	125,111	Utah.....	8,195
		Pennsylvania.....	253,991	Nevada.....	5,237
				Pacific.....	371,603
				Washington.....	62,188
				Oregon.....	38,096
				California.....	271,319

Note: Data from the Annual Surveys of Manufactures for 1950-1953 have been omitted from this table because the Annual Survey did not include dairy plants engaged in the distribution of fluid milk, and the product statistics are, therefore, not comparable to those for 1947 and 1954.

<sup>1</sup>For the specified product classes, shipments of over \$1 million were reported for the States listed but the exact figures are withheld to avoid disclosure of individual company figures: 20231, Maryland; 20232, New York, Pennsylvania, Minnesota, Iowa, Kansas, Maryland, Virginia, West Virginia, North Carolina, South Carolina, Kentucky, Mississippi, Arkansas, Texas, Idaho, Colorado, Utah, Washington, and California; 20233, Maine, Vermont, and Maryland; 20234, Maryland; 20240, Delaware and South Carolina; 20252, Indiana, Illinois, Georgia, Oklahoma, Texas, Idaho, Washington, and California; 20270, Virginia, Florida, and Texas.

<sup>2</sup>Data for 1947 are incomplete since only part of the fluid milk plants were included in the 1947 Census of Manufactures.

## MANUFACTURES—INDUSTRY STATISTICS

Table 7.—MATERIALS CONSUMED, BY KIND: 1954

Code	Description of materials	Unit of measure	Dairy products industries, total (Group 202)		Industry 2021—Creamery butter	
			Quantity	Delivered cost (\$1,000)	Quantity	Delivered cost (\$1,000)
	Materials, containers and supplies, total.....	.....	xxx	5,583,420	xxx	777,083
202711	Whole milk received.....	Thousand gallons	9,363,622	3,248,388	1,016,244	271,794
202731	Cream received.....	...do.....	356,811	619,074	232,079	323,204
206011	Sugar (cane and beet).....	Cwt.....	5,229,243	45,935	162,759	1,451
202331	Ice cream mix and ice milk mix <sup>1</sup> .....	Thousand gallons	93,939	119,765	3,028	3,650
202251	Cheese, including cottage cheese curd <sup>1</sup> .....	Cwt.....	5,523,783	175,782	72,955	2,314
202751	Skim milk <sup>1</sup> .....	...do.....	53,645,659	50,946	7,089,862	6,296
970000	All other materials, ingredients, containers, and supplies, including materials, etc., not specified by kind.....	.....	xxx	1,323,530	xxx	168,374
			Industry 2022—Natural cheese		Industry 2023—Concentrated milk	
			Quantity	Delivered cost (\$1,000)	Quantity	Delivered cost (\$1,000)
	Materials, containers, and supplies, total.....	.....	xxx	453,729	xxx	505,348
202711	Whole milk received.....	Thousand gallons	1,402,591	354,415	1,181,826	327,630
202731	Cream received.....	...do.....	12,331	21,909	6,186	14,920
206011	Sugar (cane and beet).....	Cwt.....	15,745	142	677,818	6,115
202331	Ice cream mix and ice milk mix.....	Thousand gallons	...	...	824	1,079
202251	Cheese.....	Cwt.....	451,968	17,213	...	...
202751	Skim milk (fluid).....	...do.....	5,526,652	5,423	23,455,125	20,539
970000	All other materials, ingredients, containers, and supplies, including materials, etc., not specified by kind.....	.....	...	54,627	xxx	135,065
			Industry 2024—Ice cream and ices		Industry 2025— Special dairy products	
			Quantity	Delivered cost (\$1,000)	Quantity	Delivered cost (\$1,000)
	Materials, containers, and supplies, total.....	.....	xxx	388,010	xxx	235,986
202711	Whole milk received.....	Thousand gallons	99,115	33,677	73,691	21,760
202731	Cream received.....	...do.....	46,283	105,772	3,352	7,889
206011	Sugar (cane and beet).....	Cwt.....	2,254,461	19,839	61,651	526
202331	Ice cream mix and ice milk mix.....	Thousand gallons	54,149	66,227	373	475
202251	Cheese.....	Cwt.....	15,219	244	4,127,062	143,984
202751	Skim milk (fluid).....	...do.....	5,030,086	5,044	3,197,115	3,180
970000	All other materials, ingredients, containers, and supplies, including materials, etc., not specified by kind.....	.....	xxx	157,207	xxx	57,776
971000	Materials, etc., not specified by kind.....	.....	xxx	xxx	xxx	396
					xxx	573,776
					xxx	xxx

xxx Not applicable. <sup>1</sup>These figures represent purchased materials (or materials transferred from other plants of the same company) and do not include materials made and consumed in the same plant.

Table 8.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY INDUSTRY SPECIALIZATION AND PRIMARY PRODUCT CLASS SPECIALIZATION, FOR THE UNITED STATES: 1954

(This table presents selected statistics for establishments classified according to their degree of specialization in products primary to the industry. The establishments are classified in two ways: (1) by industry specialization—the degree of specialization in all primary products of the industry; and (2) by product-class specialization—the degree of specialization in the largest product class of the establishment. The degree of "industry specialization" for an establishment represents the ratio of its primary product shipments to its total product shipments, primary and secondary. The degree of "product-class specialization" for an establishment represents the ratio of its largest product class shipments to its total product shipments, primary and secondary. Data are not shown for some industries, product classes, and specialization ranges for a variety of reasons, consequently, detailed figures frequently do not add to the totals. See Introduction for detailed explanation)

Ind. or product class No.	Industry or product class by percent of specialization	Establishments, number	All employees		Production workers			Value added by manufacture	Cost of materials, etc.	Value of shipments
			Number	Payroll	Number	Man-hours	Wages			
2021	CREAMERY BUTTER (entire industry).....	1,262	21,019	65,601	15,060	32,756	42,920	136,953	789,465	926,414
	Establishments with:									
	90% or more specialization.....	767	6,492	19,353	4,734	10,200	13,020	45,391	307,733	353,121
	75-89% specialization.....	180	2,587	7,473	1,842	4,006	4,769	15,779	93,866	109,645
	50-74% specialization.....	244	6,695	21,066	4,863	10,810	13,997	43,518	230,075	273,594
	All other <sup>1</sup> .....	71	5,245	17,708	3,620	7,738	11,132	32,264	157,789	190,054
2022	NATURAL CHEESE (entire industry).....	1,419	13,914	42,363	11,343	25,672	32,826	88,716	462,443	551,159
	Establishments with:									
	90% or more specialization.....	1,035	6,945	19,780	5,703	12,397	15,560	41,388	240,918	282,306
	75-89% specialization.....	268	3,805	12,213	3,145	7,320	9,437	24,600	124,841	149,441
	50-74% specialization.....	96	2,543	8,329	2,015	4,818	6,351	19,107	79,322	98,429
	All other <sup>1</sup> .....	20	619	2,040	479	1,136	1,476	3,619	17,362	20,982
2023	CONCENTRATED MILK (entire industry).....	359	13,310	50,513	10,900	24,583	39,338	170,566	517,646	688,212
	Establishments with:									
	90% or more specialization.....	216	5,667	20,716	4,753	10,648	16,713	80,670	215,116	295,786
	75-89% specialization.....	67	3,946	15,372	3,271	7,380	12,077	55,199	160,198	215,398
	50-74% specialization.....	55	2,396	9,280	1,982	4,604	7,348	24,318	92,523	116,842
	All other <sup>1</sup> .....	21	1,300	5,143	892	1,950	3,199	10,377	49,808	60,186
20231	Dry milk products:									
	All establishments specializing in product class.	97	3,777	13,794	3,318	7,598	11,769	39,414	120,962	160,376
	Establishments with:									
	90% or more specialization.....	54	1,386	4,967	1,230	2,779	4,329	16,618	37,285	53,903
	75-89% specialization.....	13	484	1,852	423	934	1,515	5,264	14,042	19,306
	50-74% specialization.....	20	1,209	4,523	1,070	2,581	3,891	10,384	41,471	51,856
	Less than 50% specialization.....	10	697	2,451	594	1,302	2,033	7,147	28,163	35,311
20232	Canned milk (including canned-evaporated and condensed):									
	All establishments specializing in product class.	89	5,889	22,753	4,875	11,251	18,138	93,394	276,796	370,191
	Establishments with:									
	90% or more specialization.....	42	2,170	8,105	1,818	4,093	6,532	35,625	108,047	143,673
	75-89% specialization.....	36	3,060	12,058	2,496	5,827	9,455	49,305	141,005	190,311
	50-74% specialization.....	11	658	2,589	560	1,330	2,150	8,464	27,742	36,207
20233	Bulk evaporated and condensed milk products:									
	All establishments specializing in product class.	78	1,327	4,937	1,071	2,377	3,770	16,245	51,139	67,385
	Establishments with:									
	90% or more specialization.....	57	469	1,590	396	874	1,285	7,357	16,043	23,400
	75-89% specialization.....	6	143	529	116	250	427	1,600	3,863	5,464
	50-74% specialization.....	9	348	1,250	273	616	943	3,922	16,282	20,205
	Less than 50% specialization.....	6	366	1,567	285	637	1,114	3,365	14,950	18,315
20234	Ice cream mix and ice milk mix:									
	All establishments specializing in product class.	75	1,344	4,999	991	1,964	3,213	13,594	35,096	48,690
	Establishments with:									
	90% or more specialization.....	31	301	1,042	217	421	651	3,613	7,644	11,258
	75-89% specialization.....	14	219	763	165	230	382	1,597	4,093	5,691
	50-74% specialization.....	24	503	1,757	359	673	1,025	4,454	10,089	14,544
	Less than 50% specialization.....	6	321	1,437	250	639	1,155	3,929	13,268	17,197
2024	ICE CREAM AND ICES (entire industry).....	1,587	36,488	134,171	20,982	42,422	64,193	327,898	399,534	727,433
	Establishments with:									
	90% or more specialization.....	1,326	29,258	109,562	16,761	33,525	51,727	272,226	314,711	586,939
	75-89% specialization.....	77	2,064	7,359	1,202	2,474	3,607	16,605	23,239	39,844
	50-74% specialization.....	144	3,634	12,405	2,136	4,527	6,358	28,506	42,927	71,433
	All other <sup>1</sup> .....	40	1,530	4,844	882	1,895	2,499	10,559	18,656	29,216
2025	SPECIAL DAIRY PRODUCTS (entire industry).....	187	7,300	26,595	5,847	11,701	20,050	56,965	238,372	295,337
	Establishments with:									
	90% or more specialization.....	137	5,370	19,724	4,308	8,400	15,102	37,387	188,451	225,838
	75-89% specialization.....	12	780	2,816	603	1,340	1,920	10,762	19,012	29,775
	50-74% specialization.....	28	788	2,578	630	1,264	1,855	6,397	21,981	28,379
	All other <sup>1</sup> .....	10	362	1,477	305	697	1,172	2,417	8,926	11,344
20251	Special dairy products, except process cheese:									
	All establishments specializing in product class.	97	1,758	6,946	1,319	2,705	4,507	24,610	30,079	54,690
	Establishments with:									
	90% or more specialization.....	77	1,030	4,157	753	1,431	2,491	12,420	12,903	25,323
	75-89% specialization.....	7	341	1,381	268	631	990	8,577	7,478	16,056

See footnote at end of table.



## MANUFACTURES—INDUSTRY STATISTICS

Table 8.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY INDUSTRY SPECIALIZATION AND PRIMARY PRODUCT CLASS SPECIALIZATION, FOR THE UNITED STATES: 1954—Continued

Ind. or product class No.	Industry or product class by percent of specialization	Estab-lishments, number	All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
2025	SPECIAL DAIRY PRODUCTS ETC.—Continued									
20252	Process cheese and related products:									
	All establishments specializing in product class.	76	5,363	19,010	4,380	8,684	15,086	31,183	206,181	237,365
	Establishments with:									
	90% or more specialization.....	51	4,123	14,845	3,370	6,577	12,037	23,516	168,878	192,394
	75-89% specialization.....	5	499	1,681	388	845	1,134	2,845	13,700	16,546
2026	FLUID MILK (entire industry).....	1,695	14,086	48,085	9,074		27,692	98,940	253,827	352,767
	Establishments with:									
	90% or more specialization.....	1,608	13,618	46,554	8,702		26,520	95,726	248,410	344,137
20271	Bulk fluid milk and cream: <sup>2</sup>									
	All establishments specializing in product class.	197	1,578	5,147	1,104		3,312	11,552	47,628	59,181
	Establishments with:									
	90% or more specialization.....	162	1,324	4,372	925	( <sup>3</sup> )	2,790	9,946	43,508	53,454
	75-89% specialization.....	10	100	389	68		219	733	1,908	2,642
	50-74% specialization.....	25	153	386	110		302	872	2,211	3,084
20272	Bottled fluid milk and cream: <sup>2</sup>									
	All establishments specializing in product class.	1,389	11,967	41,224	7,560		23,151	83,757	200,228	283,985
	Establishments with:									
	90% or more specialization.....	1,267	10,589	36,045	6,575		19,626	71,801	169,320	241,122
	75-89% specialization.....	56	667	2,585	465		1,779	5,645	15,758	21,404
	50-74% specialization.....	61	694	2,558	510		1,727	6,244	14,814	21,059
	Less than 50% specialization.....	5	15	39	8		18	65	334	400
2027	FLUID MILK OTHER PRODUCTS (entire industry).....	4,994	177,311	718,960	79,987	176,922	280,142	1,376,698	2,857,296	4,233,983
	Establishments with:									
	90% or more specialization.....	2,786	65,615	274,054	29,540	62,961	105,055	520,187	1,079,504	1,599,692
	75-89% specialization.....	1,230	56,397	231,126	23,626	52,597	82,341	433,584	842,972	1,276,545
	50-74% specialization.....	337	47,701	186,059	22,459	51,339	77,860	361,685	773,880	1,135,565
	All other <sup>1</sup> .....	141	7,597	27,720	4,360	10,023	14,884	61,241	160,939	222,180
20271	Bulk fluid milk and cream: <sup>4</sup>									
	All establishments specializing in product class.	471	11,104	41,001	7,948	18,200	27,399	86,405	441,555	527,960
	Establishments with:									
	90% or more specialization.....	110	1,132	3,848	804	1,707	2,450	7,375	70,721	78,096
	75-89% specialization.....	99	1,950	7,045	1,380	3,034	4,401	14,317	67,379	81,697
	50-74% specialization.....	201	5,241	19,143	3,782	8,711	13,083	41,055	201,489	242,545
	Less than 50% specialization.....	61	2,780	10,963	1,980	4,747	7,464	23,656	101,965	125,622
20272	Bottled fluid milk and cream: <sup>4</sup>									
	All establishments specializing in product class.	4,069	161,428	660,888	68,663	151,411	241,669	1,255,167	2,301,860	3,557,016
	Establishments with:									
	90% or more specialization.....	1,892	45,491	189,626	19,872	42,121	70,645	350,334	655,023	1,005,357
	75-89% specialization.....	1,194	56,812	237,987	22,486	49,331	79,661	445,314	798,556	1,243,861
	50-74% specialization.....	829	49,799	197,436	21,802	49,930	76,291	384,553	704,602	1,089,153
	Less than 50% specialization.....	154	9,324	35,838	4,502	10,027	15,071	74,965	143,678	218,644

<sup>1</sup>This class includes data for establishments with less than 50 percent specialization in the primary products of the industry and establishments engaged exclusively in contract work defined in the industry. Miscellaneous small statistical adjustments are also included.

<sup>2</sup>Represents establishments distributing fluid milk only.

<sup>3</sup>Not shown because of the inclusion of a relatively large number of small establishments for which man-hours figures were estimated. The data for this industry are included, however, in the totals (shown in State publications and the summary volume) for the 3-digit and 2-digit industry groups.

<sup>4</sup>Represents establishments distributing fluid milk and manufacturing other dairy products.







## Canning, Preserving, and Freezing

This report shows 1954 Census of Manufactures statistics for establishments primarily engaged in canning, preserving, and freezing of all foods except canned meats, included in Industry Group 201 Meat Products; dairy products, Industry Group 202 Dairy Products, and the relatively small amounts of precooked foods classified in Miscellaneous Prepared Foods, N.E.C., Industry 2099. Establishments primarily engaged in canning, preserving and freezing foods have been classified in each of the following seven industries, described in detail below:

Code	Title
2031--Canned Sea Foods	
2032--Cured Fish	
2033--Canned Fruits and Vegetables	
2034--Dehydrated Fruits and Vegetables	
2035--Pickles and Sauces	
2036--Packaged Seafood	
2037--Frozen Fruits and Vegetables	

Establishments classified in the canning and preserving industries usually are located in the growing areas, and specialize in the processing of the products grown in the vicinity of the plant. Although individual establishments tend to specialize, companies in these industries usually produce a more or less complete line of products through the ownership and operation of a number of establishments.

Employment in many of these establishments is characterized by sharp seasonal fluctuations, reaching a peak during the harvest season. Employment data, as shown in the Census of Manufactures tables, represents the average of all employees on the payroll at any time during twelve payroll periods, and will always be greater than the average number of persons at work (See Introduction). Labor fluctuations and turnover are quite pronounced in this group of industries and since these are the two factors contributing most to the spread between persons actually at work and the average annual employment, the difference in these industries is greater than for manufacturing establishments generally. The man-hour statistics shown in Tables 2 and 3 represent the total hours actually worked by production workers, and consequently are more reliable as a measure of labor input than are the figures on average number of employees.

In most sections of the country, the crop is usually harvested and processed within a calendar year. However, in the relatively few instances where this period extends beyond the end of the calendar year, reports were based on a crop year and cover a twelve month period ending early in 1955.

Products canned or frozen at farm produce assembly or purchasing stations, at frozen food lockers, at wholesale or retail establishments, or on farms, whether for home consumption or for resale, are not included in the Census of Manufactures statistics.

Because of the difficulty of securing adequate data on shipments from most establishments included in this group of industries, value of production rather than value of shipments was called for on the 1954 Census of Manufactures questionnaires (except for Industry 2034, Dehydrated Fruits and Vegetables). Production data, rather than shipments, were also reported in the 1947 Census of Manufactures.

### 2031--Canned Seafood

This industry comprises establishments primarily engaged in cooking and canning fish, shrimps, oysters, clams, and other seafoods. Establishments primarily engaged in shucking and packing fresh oysters in non-sealed containers, or freezing and packaging fresh fish are included in Industry 2036, Pack-

aged Seafood; frozen cooked fish are classified in Industry 2099, Food Preparations, N.E.C. For a detailed list of the primary products of Industry 2031, refer to Table 6A, product codes 2031011 to 2031051.

The value of production of Industry 2031, Canned Seafood, in 1954 totaled \$238 million. This included production of primary products (canned seafood) valued at \$225 million, production of secondary products valued at \$11 million, and miscellaneous receipts of \$3 million. Receipts for merchandising (products bought and resold without further manufacture or processing) valued at \$27 million are excluded from the \$238 million value of shipments of Industry 2031. Data relating to these merchandising receipts are also excluded from the cost of materials and value added, but these activities are reflected in other detailed industry statistics, mainly employment and inventory.

Industry 2031 production of canned seafood in 1954 represented 96 percent of its total production (primary and secondary). In 1947, this primary product specialization ratio was 91 percent.

Industry 2031 production of canned seafood in 1954 represented 94 percent of the canned seafood valued at \$238 million produced by all industries. This coverage ratio in 1947 was 96 percent. Other industries producing canned seafood included Industry 2033, Canned Fruits and Vegetables, \$7 million, and Industry 2036, Packaged Seafood, \$4 million.

### 2032--Cured Fish

This industry comprises establishments primarily engaged in smoking, salting, drying, or otherwise curing fish for the trade. The products of the industry consist chiefly of smoked salmon, herring, whitefish, chub, cisco, etc., and salted and pickled fish for further processing, in addition to that produced ready for consumption. For a detailed list of primary products of this industry, refer to Table 6A, product codes 2032011 to 2032098.

The value of production of Industry 2032, Cured Fish, in 1954 totaled \$36 million. This included production of primary products (cured fish) valued at \$35 million, and production of secondary products valued at \$1 million.

Industry 2032 production of cured fish in 1954 represented 97 percent of its total production (primary and secondary). In 1947, this specialization ratio was also 97 percent.

Industry 2032 production of cured fish in 1954 represented 91 percent of the cured fish, valued at \$38 million, produced by all industries. This coverage ratio in 1947 was 88 percent.

2033--Canned Fruits and Vegetables (Full Standard Industrial Classification Title: Canned Fruits, Vegetables, Poultry, and Soups; Preserves, Jams, and Jellies)

This industry comprises establishments primarily engaged in canning fruits, vegetables, and poultry, and fruit and vegetable juices (including soups), and in manufacturing preserves, jams, and jellies. Important products of this industry include canned vegetables (including canned baked beans, and tomato cocktail); fruit and vegetable juices (canned, bottled, and in bulk); canned spaghetti; canned soups (except seafoods--Industry 2031); canned fruits (including fruit salad and fruit cocktail); preserves; jams, jellies; baby food, except meats; fruit butters; and maraschino cherries. For a detailed list of primary products of Industry 2033, refer to Table 6A, product codes 2033111 to 2033898.

The SIC title and definition for Industry 2033 have been amended by the Bureau of the Budget to include canned poultry in this industry rather than Industry 2015, Poultry Dressing Plants. The 1947 Census and subsequent Annual Survey of Manufactures classifications also reflect this change in definition.

The value of production of Industry 2033, Canned Fruits and Vegetables, in 1954 totaled \$2,229 million. This included production of primary products (canned fruits and vegetables) valued at \$1,990 million, production of secondary products valued at \$225 million, and miscellaneous receipts of \$14 million.

Industry 2033 production of canned fruits and vegetables in 1954 represented 90 percent of its total production (primary and secondary). In 1947, this primary product specialization ratio was 91 percent. Secondary products produced by this industry in 1954 consisted mainly of catsup and other tomato sauces, \$68 million; frozen fruits and vegetables, \$55 million; and pickles and sauces, except tomato, \$24 million.

Industry 2033 production of canned fruits and vegetables, in 1954 represented 94 percent of the canned fruits and vegetables, valued at \$2,113 million, shipped by all industries. This coverage ratio in 1947 was also 94 percent.

**2034—Dehydrated Fruits and Vegetables** (Full Standard Industrial Classification Title: Dried and Dehydrated Fruits and Vegetables)

This industry comprises establishments primarily engaged in sundrying or artificially dehydrating fruits and vegetables, including packaged soup mix prepared from dehydrated ingredients. Important products of this industry include dried dates, dried olives, dried prunes, dried raisins, and other dried fruits and vegetables. Establishments which purchase dried fruits and grade and package them for market are classified in Wholesale Trade, S.I.C. 5059.

Since a large proportion of the total commercial production of dried fruits is accounted for by wholesale establishments not included in the Census of Manufactures, no detailed figures on production or shipments were obtained for Industry 2034. Dried fruits, vegetables, and soup mix are grouped under product code 2034011 in Table 6A.

The value of shipments of Industry 2034, Dehydrated Fruits and Vegetables, in 1954 totaled \$192 million. This included shipments of primary products (dehydrated fruits and vegetables) valued at \$180 million, shipments of secondary products valued at \$10 million, and miscellaneous receipts of \$2 million.

Industry 2034 shipments of dehydrated fruits and vegetables in 1954 represented 95 percent of its total product shipments (primary and secondary). In 1947, this specialization ratio was 96 percent.

Industry 2034 shipments of dehydrated fruits and vegetables in 1954 represented 97 percent of the dehydrated fruits and vegetables, valued at \$185 million, shipped by all manufacturing industries. This coverage ratio in 1947 was 90 percent. (These coverage ratios would be decreased substantially if total commercial production, rather than shipments by manufacturing industries, were taken as the base.)

**2035—Pickles and Sauces** (Full Standard Industrial Classification Title: Pickled Fruits and Vegetables, Vegetable Sauces and Seasonings; Salad Dressing)

The industry comprises establishments primarily engaged in pickling, brining fruits and vegetables, and in manufacturing salad dressings, vegetable relishes, sauces, and seasonings. Important products of this industry include pickles; ketchup (canned, bottled, and in bulk); brined fruits and vegetables; prepared horseradish; sauerkraut in bulk; prepared mustard; tomato chili sauce, and other vegetable sauces; mayonnaise; cooked salad dressings and raw salad dressings, such as French, Thousand-Island, and Russian; and sandwich spread, salad dressing base.

The SIC definition for this industry has been amended by the Bureau of the Budget to include "sandwich spread, salad dressing base" in this industry rather than in Industry 2099, Miscellaneous Food Preparations, N.E.C. 1947 Census and subsequent Annual Survey of Manufactures classifications also reflect this change in definition.

Establishments primarily engaged in manufacturing canned and bottled olives; canned sauerkraut, tomato paste, tomato pulp,

and tomato puree are classified in Industry 2033, Canned Fruits and Vegetables.

For a detailed list of the primary products of Industry 2035 refer to Table 6A, product codes 2035111 to 2035511.

The value of production of Industry 2035, Pickles and Sauces, in 1954 totaled \$482 million. This included production of primary products (pickles and sauces) valued at \$385 million, production of secondary products valued at \$94 million, and miscellaneous receipts of \$3 million.

Industry 2035 production of pickles and sauces in 1954 represented 80 percent of its total production (primary and secondary). In 1947, this primary product specialization ratio was 84 percent. Secondary products produced by this industry in 1954 included shortening and cooking oils, \$16 million; jams, jellies, and preserves, \$10 million; and canned fruits and vegetables, \$20 million.

Industry 2035 production of pickles and sauces in 1954 represented 75 percent of the pickles and sauces, valued at \$517 million, produced by all industries. This coverage ratio in 1947 was 69 percent. Other industries producing pickles and sauces consisted mainly of Industry 2033, Canned Fruits and Vegetables, \$90 million; and Industry 2099, Miscellaneous Food Preparations, N.E.C., \$25 million.

It should be noted that the coverage ratio for Industry 2035 is reduced because of the significant production of catsup and other tomato sauces (product class 20351) in other industries, mainly Industry 2033. In 1954, Industry 2035 accounted for less than half of the production of this class of products.

**2036—Packaged Seafood** (Full Standard Industrial Classification Title: Fresh or Frozen Packaged Fish)

The new industry classification, Fresh or Frozen Packaged Fish, was established by the Bureau of the Budget just prior to the 1954 Census. It comprises establishments primarily engaged in preparing fresh or frozen packaged fish and other seafood formerly included in Industry 2037. Industry 2036 also includes establishments primarily engaged in shucking and packing fresh oysters in nonsealed containers, which were formerly classified in wholesale trade. Establishments primarily engaged in manufacturing canned seafood are classified in Industry 2031, Canned Seafood and cured fish in Industry 2032, Cured Fish. Also excluded from Industry 2036 are cold storage warehouses, frozen food locker plants, and retail stores freezing or packaging fresh seafood.

For a detailed list of the primary products of Industry 2036, refer to Table 6A, product codes 2036111 to 2036211.

The value of production of Industry 2036, Packaged Seafood, in 1954 totaled \$165 million. This included production of fresh and frozen packaged seafood (primary products) valued at \$151 million, production of secondary products valued at \$10 million, and miscellaneous receipts of \$5 million.

Industry 2036 production of fresh and frozen packaged seafood (primary products) in 1954 represented 94 percent of its total production (primary and secondary). Secondary products produced by this industry in 1954 consisted mainly of canned and cured seafood products, \$6 million.

Industry 2036 production of fresh and frozen packaged seafood in 1954 represented 95 percent of the fresh and frozen packaged seafood, valued at \$158 million, produced by all manufacturing industries. The principal other industry producing fresh and frozen packaged seafood was Industry 2031, Canned Seafood, \$4 million.

**2037—Frozen Fruits and Vegetables** (Full Standard Industrial Classification Title: Frozen Fruits, Fruit Juices, and Vegetables)

This industry comprises establishments primarily engaged in quick-freezing and cold packing (freezing) vegetables, fruits, and fruit juices.

Establishments primarily engaged in manufacturing canned and bottled fruits, fruit juices, and vegetables are classified in Industry 2033, Canned Fruits and Vegetables; and concentrated



fruit juice products (not frozen) for fountain use, in Industry 2095, Flavorings.

The SIC title and definition for Industry 2037 have been amended by the Bureau of the Budget to exclude plants primarily engaged in preparing frozen packaged seafoods. Frozen packaged seafood, formerly included in this industry, is now part of Industry 2036, Fresh or Frozen Packaged Fish. The 1947 statistics for Industry 2037 have not been retabulated to reflect this change in definition. The noncomparability due to the change in definition is between 10 and 20 percent of the 1947 figures.

Excluded from this industry, in 1954 and earlier years, are establishments primarily engaged in packing fruits and vegetables for freezing but not freezing the product; cold storage warehouses freezing foods for others, frozen food locker and other establishments freezing for individual consumers or farms and ranches producing frozen fruits and vegetables.

For a detailed list of primary products of Industry 2037 refer to Table 6A, product codes 2037111 to 2037298.

The value of production of Industry 2037, Frozen Fruits and Vegetables, in 1954 totaled \$417 million. This included production of primary products (frozen fruits and vegetables) valued at \$363 million, production of secondary products valued at \$50 million, and miscellaneous receipts (mainly contract work on materials owned by others) of \$4 million.

Industry 2037 production of frozen fruits and vegetables (primary products) in 1954 represented 88 percent of its total production (primary and secondary). Secondary products produced in this industry in 1954 consisted mainly of canned fruits, fruit juices, and vegetables, \$29 million.

Industry 2037 production of frozen fruits and vegetables and frozen fruit juices in 1954 represented 84 percent of the frozen fruits and vegetables and frozen fruit juices, valued at \$431 million, produced by all manufacturing industries. Other industries producing frozen fruits and vegetables and frozen fruit juices consisted mainly of Industry 2033, Canned Fruits and Vegetables, \$55 million; and 2099, Food Preparations, N.E.C., \$8 million.

The general statistics (employment, payrolls, value of shipments, cost of materials, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products, and, for that matter, their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (Tables 1-4) with product statistics (Table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in Table 5A which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry made as secondary products by establishments classified in other industries.



## MANUFACTURES—INDUSTRY STATISTICS

Table 1.—GENERAL STATISTICS FOR THE UNITED STATES: 1954 AND EARLIER YEARS

(For explanation of column captions see Introduction)

Industry and census year	Establishments, number	All employees		Production workers		Value added by manufacture <sup>2</sup>	Cost of materials, etc. <sup>3</sup>	Value of shipments <sup>4</sup>
		Number <sup>1</sup>	Payroll (\$1,000)	Number <sup>1</sup>	Wages (\$1,000)			
Total for Canning, Preserving and Freezing								
1954.....	3,513	199,235	573,055	175,365	442,395	1,301,193	2,457,141	3,758,337
1953 <sup>5</sup> .....	(NA)	206,328	565,114	181,411	438,003	1,320,242	(NA)	(NA)
1952 <sup>5</sup> .....	(NA)	210,990	561,886	185,214	438,596	1,265,431	(NA)	(NA)
1951 <sup>5</sup> .....	(NA)	215,693	560,717	190,849	446,657	1,185,795	(NA)	(NA)
1950 <sup>5</sup> .....	(NA)	204,916	467,469	177,514	360,938	1,127,289	(NA)	(NA)
1949 <sup>5</sup> .....	(NA)	204,745	434,777	182,454	341,729	928,069	(NA)	(NA)
1947.....	3,825	201,109	413,041	180,651	334,284	914,184	1,548,181	2,462,365
1939.....	3,058	(NA)	(NA)	135,087	89,308	319,153	523,175	842,328
1937.....	3,093	(NA)	(NA)	155,118	101,215	319,611	546,727	866,338
1935.....	3,018	140,811	98,070	129,633	76,922	261,798	448,434	710,232
1933.....	2,336	101,320	60,186	94,267	49,712	185,880	294,668	480,548
1931.....	2,839	(NA)	(NA)	88,775	59,224	204,944	350,409	555,353
1929.....	3,345	123,566	108,718	112,478	83,778	315,889	515,302	831,191
1927.....	2,773	103,748	92,172	93,574	70,415	239,351	398,077	637,428
1925.....	2,722	105,922	94,955	96,396	74,661	252,364	424,767	677,131
1923.....	2,799	92,646	85,336	81,678	63,334	235,884	330,021	565,905
1921.....	2,225	69,008	60,137	59,675	42,114	142,127	259,705	401,831
1919.....	4,280	104,102	91,213	89,923	66,444	215,628	412,660	628,288
1914.....	4,220	83,660	38,668	74,071	27,197	83,782	159,658	243,440
1909.....	3,767	67,728	26,945	59,968	19,082	55,278	101,823	157,101
1904.....	3,168	62,572	21,567	56,944	16,336	47,319	83,147	130,466
1899.....	2,570	61,211	17,184	57,012	13,705	35,667	63,668	99,335
Canned seafood (S.I.C. 2031):								
1954.....	239	15,131	37,062	14,125	31,147	70,387	167,995	238,382
1953 <sup>5</sup> .....	(NA)	14,994	31,608	14,006	25,952	79,210	145,589	224,799
1952 <sup>5</sup> .....	(NA)	17,326	42,855	15,819	33,777	95,671	160,082	255,753
1951 <sup>5</sup> .....	(NA)	19,108	47,130	17,607	37,402	101,504	149,446	250,950
1950 <sup>5</sup> .....	(NA)	22,203	51,010	19,050	37,666	91,677	159,626	251,303
1947.....	254	20,153	37,207	18,929	31,755	96,807	129,712	226,519
1939.....	214	16,928	9,284	15,735	7,228	25,434	40,022	65,456
1937 <sup>6</sup> .....	217	(NA)	(NA)	16,358	7,117	24,595	38,973	63,568
Cured fish (S.I.C. 2032):								
1954.....	90	1,726	5,709	1,425	3,686	10,512	25,024	35,536
1947.....	127	2,431	5,111	2,143	3,763	9,948	21,129	31,077
1939.....	114	2,344	2,616	1,893	1,670	4,643	10,972	15,615
1937 <sup>6</sup> .....	104	(NA)	(NA)	1,696	1,460	4,650	9,192	13,842
Canned fruits and vegetables (S.I.C. 2033):								
1954.....	1,758	119,836	354,746	105,613	276,063	830,019	1,398,928	2,228,947
1953 <sup>5</sup> .....	(NA)	134,188	367,871	118,883	290,057	876,799	1,450,561	2,327,360
1952 <sup>5</sup> .....	(NA)	134,102	364,909	117,732	283,723	850,439	1,421,471	2,271,910
1951 <sup>5</sup> .....	(NA)	140,586	368,680	125,483	296,613	779,084	1,487,434	2,266,528
1950 <sup>5</sup> .....	(NA)	130,983	311,512	115,120	240,743	785,619	1,194,157	1,979,776
1949 <sup>5</sup> .....	(NA)	133,086	292,470	118,531	228,601	619,752	1,083,999	1,703,751
1947.....	2,265	135,851	283,859	121,921	230,883	608,768	1,031,986	1,640,754
1939 <sup>7</sup> .....	1,899	(NA)	(NA)	93,603	62,867	227,399	339,056	566,455
1937 <sup>8</sup> .....	2,359	(NA)	(NA)	123,961	81,970	251,245	419,951	671,196
Dehydrated fruits and vegetables <sup>9</sup> (S.I.C. 2034):								
1954.....	148	7,011	22,026	6,102	16,477	55,176	137,024	192,200
1947.....	146	3,976	8,145	3,662	6,834	18,155	32,924	51,079
Pickles and sauces (S.I.C. 2035):								
1954.....	717	21,895	67,084	18,230	47,594	140,925	340,582	481,507
1953 <sup>5</sup> .....	(NA)	23,223	72,629	18,695	49,135	155,163	365,976	521,139
1952 <sup>5</sup> .....	(NA)	20,325	55,798	16,588	41,014	117,853	275,670	393,523
1951 <sup>5</sup> .....	(NA)	23,110	55,668	18,194	40,496	122,864	321,978	444,842
1950 <sup>5</sup> .....	(NA)	23,843	48,519	18,854	36,911	126,982	246,894	373,876
1947.....	742	21,335	47,177	18,226	35,216	121,129	236,731	357,860
1939 <sup>10</sup> .....	511	15,705	15,931	12,464	9,827	41,087	80,492	121,579
1937 <sup>8</sup> .....	392	(NA)	(NA)	11,140	9,336	35,868	73,723	109,591

See footnotes at end of table.

## CANNING, PRESERVING, AND FREEZING

20C-5

Table 1.--GENERAL STATISTICS FOR THE UNITED STATES: 1954 AND EARLIER YEARS--Continued

(For explanation of column captions see Introduction)

Industry and census year	Establishments, number	All employees		Production workers		Value added by manufacture <sup>2</sup> (\$1,000)	Cost of materials, etc. <sup>3</sup> (\$1,000)	Value of shipments <sup>4</sup> (\$1,000)
		Number <sup>1</sup>	Payroll (\$1,000)	Number <sup>1</sup>	Wages (\$1,000)			
Packaged seafood (S.I.C. 2036):								
1954 <sup>11</sup> .....	295	12,200	27,190	11,232	21,549	45,657	118,968	164,625
Frozen fruits and vegetables (S.I.C. 2037):								
1954.....	266	21,436	59,238	18,638	45,879	148,517	268,623	417,140
1953 <sup>5</sup> .....	(NA)	25,225	65,964	22,501	53,565	149,137	282,851	431,988
1950 <sup>5</sup> .....	(NA)	20,593	39,460	18,066	31,484	89,153	138,681	227,834
1947.....	291	17,363	31,542	15,770	25,833	59,377	95,699	155,076
1939 <sup>12</sup> .....	61	(NA)	(NA)	3,334	1,899	4,625	8,423	13,048
1937 <sup>8</sup> .....	21	(NA)	(NA)	1,963	1,332	3,253	4,888	8,141

NA Not available.

<sup>1</sup>For 1954, the all employees figure represents the average number on the payroll at any time during the pay periods ended nearest the fifteenth of each month; the number of production workers was calculated by subtracting from the "all employees" total, the average number of nonproduction employees for the four mid-month pay periods for which such information was collected: The pay periods ending nearest the 15th of March, May, August and November. For the period 1949-1953, both figures are based on employment for these four months. For 1947, they represent the average of 12 monthly figures. For earlier years, the production worker average was calculated as in 1947, but the figure for all employees represents the sum of the annual average number of production workers and the number of nonproduction employees for one payroll period (usually in October).

<sup>2</sup>Value of products less cost of materials, supplies, fuel, electric energy and contract work. See Introduction, "Value Added by Manufacture."

<sup>3</sup>Figures for years prior to 1935 do not include cost of contract work.

<sup>4</sup>For 1929 and 1949-1953, value of shipments; for all other years, value of production. See Introduction, "Value of Shipments."

<sup>5</sup>The figures for 1949-1953 represent estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period. Estimates with a standard error in excess of 15 percent generally have been omitted from this table.

<sup>6</sup>"Canned sea food" and "Cured fish" formerly constituted one industry. Separate figures are, therefore, not available prior to 1937.

<sup>7</sup>The figures for 1939 and 1937 were obtained by combining the figures for industries formerly designated "Canned and dried fruits and vegetables" and "Preserves, jams and jellies." The figures for 1939 are not entirely comparable with those for 1937. Value added by manufacture for 1939 on a basis comparable with 1937 was \$242.4 million.

<sup>8</sup>Canning and preserving, except fish, "Pickles and sauces," and "Frozen foods" formerly constituted one industry. Separate figures are, therefore, not available prior to 1937.

<sup>9</sup>A substantial part of the total commercial output of dried fruits is packed in establishments classified in Wholesale Trade (S.I.C. 5049) and included in the Census of Business. See Introductory text for industry. No comparable figures are available for years prior to 1947.

<sup>10</sup>The figures for 1939 and 1937 were obtained by combining the figures for the former industries "Pickled fruits and vegetables, etc.," and "Salad dressings."

<sup>11</sup>Industry 2036 includes establishments formerly classified in Wholesale Trade (S.I.C. 5046) and no comparable figures are available for years prior to 1954. See Introductory text for industry.

<sup>12</sup>Previously published figures for 1939 have been revised to include statistics for 25 establishments primarily engaged in cold-packing fruits and vegetables. Value added for 1939, before revision and on a basis comparable with 1937, was \$3.9 million.

## MANUFACTURES—INDUSTRY STATISTICS

Table 2.—GENERAL STATISTICS BY REGIONS AND STATES: 1954 AND 1947  
(For explanation of column captions see Introduction)

Industry, region, and State <sup>1</sup>	1954											1947	
	Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
	Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
Canned seafood (S.I.C. 2031), total.....	239	151	15,131	37,062	14,125	20,995	31,147	70,387	167,995	238,382	2,083	20,153	96,807
Northeast & North Central...	67	46	3,054	7,045	2,862	4,928	5,871	11,932	17,312	29,246	388	3,796	19,413
Maine.....	42	38	2,506	5,458	2,375	4,060	4,781	8,813	12,254	21,067	267	2,646	15,272
New Jersey.....	5	3	275	774	255	460	609	1,787	2,677	4,464	57	(D)	(D)
South.....	77	48	4,202	5,556	3,965	4,981	4,666	10,109	18,926	29,035	486	5,218	8,123
Maryland.....	9	3	219	494	205	328	454	732	2,305	3,037	(D)	648	1,364
Virginia.....	11	7	385	457	350	431	384	476	1,435	1,911	(D)	529	1,263
North Carolina.....	6	3	149	262	132	196	194	465	507	972	16	88	170
South Carolina.....	5	4	273	435	261	480	414	567	435	1,002	(D)	321	467
Mississippi.....	14	8	942	1,093	904	1,124	973	1,710	3,574	5,284	203	1,019	(D)
Louisiana.....	24	19	1,915	2,297	1,817	1,977	1,820	5,377	9,211	14,589	142	2,340	2,752
Pacific.....	95	57	7,373	24,460	7,296	11,085	20,610	48,345	131,757	180,101	1,207	11,139	69,271
Washington.....	51	24	1,397	3,901	1,233	1,677	2,962	6,954	21,744	28,699	348	1,707	9,891
Oregon.....	11	6	719	1,763	694	1,023	1,627	3,100	14,112	14,112	42	1,296	6,656
California.....	33	27	5,755	18,795	5,369	8,384	16,020	38,289	99,000	137,290	816	8,136	52,724
Cured fish (S.I.C. 2032), total.....	90	23	1,726	5,709	1,425	2,803	3,686	10,512	25,024	35,536	646	2,431	9,948
North and North Central....	56	15	1,077	3,928	873	1,691	2,447	7,042	18,921	25,964	182	1,300	6,960
New York.....	21	6	490	2,114	379	759	1,226	3,764	12,908	16,673	56	526	4,006
Illinois.....	7	4	265	864	219	460	571	1,251	2,866	4,118	46	224	823
South Atlantic.....	13	4	380	817	357	779	701	1,468	2,805	4,273	(D)	(D)	(D)
Maryland.....	5	2	295	636	279	595	542	1,039	2,120	3,159	(D)	376	(D)
West South Central.....	8	...	24	33	21	29	27	90	130	221	25	(D)	(D)
Pacific.....	13	4	244	929	173	302	509	1,910	3,166	5,077	45	(D)	(D)
California.....	7	3	148	595	93	177	296	668	1,802	2,471	13	150	743
Canned fruits and vegetables (S.I.C. 2033), total.....	1,758	998	119,836	354,746	105,613	206,076	276,063	830,019	1,398,928	2,228,947	49,916	135,851	608,768
New England.....	80	30	2,522	6,920	2,139	3,941	4,736	14,178	29,096	43,274	828	3,141	14,280
Maine.....	30	16	1,392	3,443	1,213	2,219	2,513	5,991	11,152	17,144	359	1,837	7,042
Massachusetts.....	36	9	844	2,737	674	1,278	1,726	7,025	14,954	21,979	395	1,090	6,298
Middle Atlantic.....	275	167	25,248	81,783	22,140	45,542	65,067	202,411	344,514	546,925	11,405	25,266	128,812
New York.....	150	96	10,271	31,618	9,237	19,889	26,027	78,036	139,386	217,423	4,642	9,452	44,754
New Jersey.....	42	24	7,942	29,957	6,626	13,113	22,736	77,788	118,144	195,933	3,625	8,088	53,409
Pennsylvania.....	83	47	7,034	20,208	6,277	12,540	16,303	46,585	86,983	133,569	3,137	7,726	30,649
East North Central.....	482	287	26,578	83,018	22,997	46,630	60,408	186,502	308,997	494,800	11,094	30,775	135,639
Ohio.....	99	36	2,490	6,882	2,151	4,247	4,871	15,935	29,515	45,451	1,575	2,620	9,937
Indiana.....	99	51	3,953	9,947	3,574	7,128	8,377	22,419	51,393	73,812	821	6,576	25,870
Illinois.....	91	48	7,710	27,801	6,466	12,914	20,463	72,982	110,351	183,334	3,272	8,331	48,752
Michigan.....	68	44	4,117	16,770	3,383	6,928	9,384	33,069	56,348	89,418	2,964	4,028	16,318
Wisconsin.....	125	108	8,307	21,616	7,421	15,412	17,311	42,095	60,688	102,784	2,460	9,220	34,762
West North Central.....	71	46	4,120	10,654	3,566	7,120	8,076	25,680	47,109	72,790	1,280	5,692	21,633
Minnesota.....	28	23	2,328	6,841	1,924	4,123	4,964	17,722	25,374	43,097	1,054	2,999	14,411
Iowa.....	28	18	1,194	2,491	1,082	2,002	2,039	4,503	10,935	15,438	(D)	1,355	3,392
South Atlantic.....	337	163	19,118	41,930	17,222	30,922	31,970	74,394	161,287	235,682	5,584	20,674	63,441
Delaware.....	23	18	1,548	2,881	1,402	2,326	2,318	5,151	8,734	13,886	240	1,677	5,328
Maryland.....	123	69	6,645	13,477	5,858	9,680	9,522	19,233	46,746	65,980	1,344	7,570	23,828
Virginia.....	71	19	2,378	5,033	2,109	3,905	3,647	11,398	17,672	29,071	709	3,038	5,995
West Virginia.....	8	2	490	1,308	434	896	960	2,681	5,397	8,078	234	297	(D)
North Carolina.....	10	3	146	409	113	204	182	707	1,269	1,976	141	(D)	(D)
Florida.....	69	36	6,433	16,560	5,951	11,986	13,598	31,432	73,723	105,156	2,702	5,982	23,318
East South Central.....	37	22	2,172	4,900	1,945	3,593	3,703	11,236	24,328	35,564	560	2,119	6,520
Kentucky.....	8	4	319	940	265	485	596	1,657	3,855	5,512	68	443	(D)
Tennessee.....	20	11	1,203	2,641	1,091	2,072	2,088	6,781	13,580	20,361	(D)	1,246	3,929
West South Central.....	112	67	6,141	11,050	5,585	9,614	8,619	19,464	51,110	70,575	841	8,267	20,248
Arkansas.....	24	14	1,549	2,899	1,377	2,463	2,242	5,550	13,127	18,678	273	2,407	(D)
Louisiana.....	18	12	1,128	1,551	1,079	1,461	1,382	1,889	6,340	8,229	101	430	1,420
Oklahoma.....	13	9	734	1,147	679	1,078	920	2,192	10,320	12,512	112	424	(D)
Texas.....	57	32	2,729	5,452	2,448	4,610	4,075	9,831	21,323	31,155	353	5,006	12,557
Mountain.....	59	34	1,980	4,615	1,761	3,100	3,512	8,511	13,736	22,248	1,297	3,241	11,513
Idaho.....	6	6	385	782	348	511	626	1,592	2,865	4,457	77	422	1,826
Colorado.....	13	10	524	1,203	471	820	903	2,411	3,052	5,464	104	771	2,100
Utah.....	23	15	846	2,110	753	1,380	1,599	3,541	5,752	9,294	1,061	1,786	6,320

See footnotes at end of table.



## CANNING, PRESERVING, AND FREEZING

20C-7

Table 2.—GENERAL STATISTICS BY REGIONS AND STATES: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Industry, region, and State <sup>1</sup>	1954											1947	
	Establishments, number		All employees		Production workers			Value added by manufacture	Cost of materials, etc.	Value of shipments	Capital expenditures, new	All employees, number	Value added by manufacture
	Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)		(\$1,000)
Canned fruits and vegetables (S.I.C. 2033),—Continued													
Pacific.....	305	182	31,954	109,874	28,253	55,611	89,969	287,641	419,446	707,087	17,025	36,676	206,682
Washington.....	60	29	3,432	11,116	3,077	6,193	9,164	28,256	46,213	74,470	1,977	5,321	23,633
Oregon.....	48	25	3,789	11,197	3,416	6,506	9,415	23,959	39,346	63,305	1,293	4,581	20,592
California.....	197	128	24,732	87,561	21,759	42,911	71,390	235,425	333,386	569,311	13,755	26,774	162,457
Dehydrated fruits and vegetables (S.I.C. 2034), total.....	148	64	7,011	22,026	6,102	11,678	16,477	55,176	137,024	192,200	3,421	3,976	18,155
Northeast and North Central.....	29	7	1,109	4,014	858	1,484	2,181	14,461	18,862	33,324	523	930	4,146
South and West.....	119	57	5,900	18,011	5,243	10,192	14,294	40,713	118,161	158,875	2,896	3,046	14,009
Washington.....	9	6	268	836	234	500	650	1,222	3,371	4,594	84	455	(D)
California.....	99	47	5,030	15,871	4,448	8,584	12,513	36,813	110,194	147,008	2,647	1,701	9,916
Pickles and sauces (S.I.C. 2035), total.....	717	220	21,895	67,084	18,230	35,977	47,594	140,925	340,582	481,507	7,579	21,335	121,129
New England.....	29	10	545	1,686	459	896	1,146	4,191	6,257	10,449	120	476	2,298
Massachusetts.....	16	6	312	985	262	523	635	2,100	3,816	5,917	83	315	1,127
Middle Atlantic.....	174	42	4,802	15,274	3,921	7,516	10,620	32,067	77,067	109,135	1,224	4,911	27,169
New York.....	99	23	2,461	7,452	2,010	3,789	4,782	12,667	28,867	41,535	505	3,120	12,295
New Jersey.....	38	11	1,424	4,953	1,164	2,308	3,791	13,025	36,317	49,343	533	1,210	7,757
Pennsylvania.....	37	8	917	2,869	746	1,417	2,046	6,374	11,882	18,257	185	581	4,117
North Central.....	238	80	7,627	23,431	6,552	13,046	17,508	43,780	111,008	154,788	2,869	8,054	40,909
Ohio.....	34	11	1,309	4,082	1,117	2,247	2,943	8,185	15,741	23,927	620	1,445	5,214
Illinois.....	43	17	1,601	6,016	1,377	2,713	4,571	12,751	44,627	57,379	760	1,475	14,895
Michigan.....	51	12	1,388	3,758	1,201	2,468	2,956	6,188	12,736	18,925	718	1,316	4,480
Wisconsin.....	31	11	1,064	3,071	932	1,835	2,281	5,225	9,234	14,460	141	1,195	5,937
Missouri.....	17	6	293	920	233	449	511	1,333	3,729	5,063	108	348	1,626
South Atlantic.....	70	29	2,899	6,846	2,457	4,679	4,738	14,066	35,959	50,025	617	2,165	10,235
Maryland.....	20	8	804	2,169	640	1,290	1,351	3,543	8,576	12,119	157	695	3,610
Virginia.....	10	4	203	463	182	306	275	1,425	2,453	3,879	35	182	670
North Carolina.....	7	3	496	969	441	734	776	1,793	2,965	4,758	21	460	1,401
South Carolina.....	7	2	170	341	152	276	286	2,018	3,746	5,765	80	68	(D)
Georgia.....	10	6	987	2,300	835	1,688	1,626	4,239	16,073	20,312	266	528	3,390
East South Central.....	18	8	835	2,395	694	1,487	1,562	4,317	8,010	12,327	106	771	4,250
Alabama.....	7	2	212	381	171	319	262	891	2,492	3,383	29	122	542
West South Central.....	59	17	1,728	4,982	1,340	2,677	3,093	9,571	29,173	38,744	305	1,358	10,409
Louisiana.....	12	5	717	2,359	419	791	920	4,789	12,071	16,860	95	754	(D)
Texas.....	36	10	844	2,299	764	1,579	1,901	4,156	16,204	20,361	174	551	7,570
Mountain.....	16	7	554	1,528	471	931	1,135	2,281	4,057	6,339	189	466	1,417
Colorado.....	8	3	321	804	264	486	547	1,275	2,295	3,571	(D)	371	1,047
Pacific.....	113	27	2,901	10,940	2,332	4,742	7,789	30,648	69,049	99,698	2,146	3,134	24,442
California.....	89	19	2,392	9,430	1,887	3,948	6,652	26,903	57,963	84,866	1,647	2,555	21,703
1954													
	Establishments, number		All employees		Production workers			Value added by manufacture	Cost of materials, etc.	Value of shipments	Capital expenditures, new		
	Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
Packaged seafood (S.I.C. 2036), total	295		135	12,200	27,190	11,232	18,779	21,549	45,657	118,969	164,625	2,813	
New England.....	52		28	2,591	8,438	2,298	4,188	6,502	11,846	35,316	47,162	548	
Massachusetts.....	40		21	2,088	6,671	1,836	3,419	4,959	10,113	32,106	42,220	490	
Middle Atlantic.....	34		13	1,179	3,171	1,044	1,967	2,385	7,236	14,624	21,861	374	
New York.....	19		5	405	1,443	361	700	1,128	2,887	8,134	11,022	171	
North Central.....	7		1	84	233	71	133	177	396	810	1,206	(D)	
South Atlantic.....	126		62	5,486	9,008	5,161	8,616	7,395	16,442	30,701	47,143	1,494	
Maryland.....	40		26	1,619	2,398	1,522	2,196	1,969	3,636	8,725	12,361	191	
Virginia.....	57		23	1,962	3,482	1,864	3,033	2,934	5,045	7,398	12,443	490	
Georgia.....	6		5	1,291	2,010	1,206	2,429	1,618	5,367	10,513	15,881	591	
Florida.....	13		8	545	1,008	506	861	786	2,187	3,687	5,875	171	

See footnotes at end of table..

Table 2.—GENERAL STATISTICS BY REGIONS AND STATES: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Industry, region, and State <sup>1</sup>	1954										
	Establishments, number		All employees		Production workers			Value added by manufacture	Cost of materials, etc.	Value of shipments	Capital expenditures, new
	Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
Packaged seafood (S.I.C. 2036)—Con.											
East South Central.....	11	2	151	302	131	177	163	727	1,451	2,179	(D)
West South Central.....	25	13	1,575	2,566	1,501	1,979	2,079	4,716	21,785	26,502	(D)
Louisiana.....	17	7	885	1,307	848	803	1,034	2,454	9,430	11,884	(D)
Texas.....	8	6	690	1,259	652	1,176	1,045	2,262	12,355	14,617	(D)
Pacific.....	40	16	1,131	3,470	1,023	1,716	2,846	4,291	14,279	18,571	211
Washington.....	15	9	597	2,118	539	1,013	1,718	2,874	10,065	12,939	97
Oregon.....	12	5	383	971	356	515	848	800	2,611	3,411	58
California.....	13	2	151	380	127	186	279	616	1,603	2,220	55
Industry, region, and State <sup>1</sup>	1947										
	Establishments, number		All employees		Production workers			Value added by manufacture	Cost of materials, etc.	Value of shipments	Capital expenditures, new
	Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
Frozen fruits and vegetables (S.I.C. 2037), total.....	266	168	21,436	59,238	18,638	36,104	45,879	148,517	268,623	417,140	10,638
New England.....	6	3	147	271	137	234	236	582	918	1,481	6
Middle Atlantic.....	51	26	3,811	10,418	3,377	6,822	8,012	21,586	30,929	52,534	991
New York.....	34	17	1,665	3,822	1,546	2,977	3,217	9,350	13,373	22,723	551
North Central.....	30	15	1,384	3,556	1,219	2,508	2,733	8,398	13,034	21,433	936
Michigan.....	16	12	539	1,334	490	880	1,046	2,150	6,649	8,800	308
South Atlantic.....	39	29	5,511	15,931	4,621	9,686	12,180	47,328	109,397	156,726	3,414
Delaware.....	4	4	411	1,042	368	817	794	2,116	3,178	5,294	127
Maryland.....	6	4	369	817	346	658	699	1,075	2,443	3,518	187
Florida.....	21	17	4,156	12,840	3,424	7,335	9,723	41,101	99,197	140,299	3,029
East South Central.....	15	6	495	843	410	562	540	1,397	2,909	4,307	84
Tennessee.....	12	6	472	814	388	539	511	1,360	2,806	4,167	(D)
West South Central.....	15	9	836	1,268	789	1,238	1,066	3,082	3,892	6,975	272
Texas.....	5	2	299	573	279	549	486	1,174	839	2,014	(D)
Mountain.....	9	5	886	2,047	803	1,274	1,604	3,432	4,100	7,532	1,492
Colorado.....	4	2	153	296	137	158	175	448	654	1,102	(D)
Pacific.....	101	75	8,363	24,901	7,280	13,776	19,504	62,709	103,440	166,150	3,442
Washington.....	34	24	2,212	6,603	1,956	3,961	5,441	16,410	25,574	41,985	1,013
Oregon.....	22	14	1,573	4,460	1,346	2,666	3,571	10,653	15,837	26,491	433
California.....	45	37	4,578	13,838	3,977	7,149	10,492	35,645	62,028	97,674	1,995

Note: Detailed figures may not add to the totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>General statistics for some producing States are not shown separately in the table (see Introduction "Confidentiality of Data for Individual Companies"). Such States are shown below with the number of establishments in each State for 1954 and, in parentheses, the number of employees or the employment-size range for that State for 1954:

S.I.C. 2031, Canned Seafood: Northeast and North Central—Massachusetts, 4 (20-99); Rhode Island, 1 (20-99); Connecticut, 2 (1-19); New York, 9 (100-249); Pennsylvania, 1 (1-19); Ohio, 2 (1-19); Wisconsin, 1 (1-19); South—Delaware, 1 (20-99); Florida, 4 (20-99); Alabama, 2 (100-249); Oklahoma, 1 (20-99).

S.I.C. 2032, Cured Fish: Northeast and North Central—Maine, 8 (20-99); Massachusetts, 3 (20-99); Rhode Island, 1 (20-99); New Jersey, 1 (1-19); Pennsylvania, 3 (20-99); Ohio, 3 (1-19); Michigan, 4 (20-99); Wisconsin, 4 (20-99); Minnesota, 1 (1-19); South Atlantic—Virginia, 3 (20-99); North Carolina, 3 (20-99); Florida, 2 (1-19); West South Central—Louisiana, 8 (20-99); Pacific—Washington, 5 (20-99); Oregon, 1 (20-99).

S.I.C. 2033, Canned Fruits and Vegetables: New England—New Hampshire, 2 (20-99); Vermont, 4 (20-99); Rhode Island, 1 (1-19); Connecticut, 7 (100-249); West North Central—Missouri, 13 (250-499); Kansas, 2 (100-249); South Atlantic—South Carolina, 8 (20-99); Georgia, 25 (1,390); East South Central—Alabama, 2 (250-499); Mississippi, 7 (250-499); Mountain—Montana, 6 (20-99); New Mexico, 3 (1-19); Arizona, 8 (100-249).

S.I.C. 2034, Dehydrated Fruits and Vegetables: Northeast and North Central—New York, 15 (250-499); New Jersey, 3 (100-249); Pennsylvania, 1 (1-19); Indiana, 1 (1-19); Illinois, 8 (250-499); Nebraska, 1 (1-19); South and West—Virginia, 1 (1-19); Georgia, 1 (250-499); Mississippi, 1 (1-19); Louisiana, 1 (1-19); Idaho, 4 (100-249); Arizona, 1 (1-19); Oregon, 2 (20-99).

S.I.C. 2035, Pickles and Sauces: New England—Maine, 2 (20-99); Rhode Island, 2 (20-99); North Central—Indiana, 26 (1,000-2,499); Minnesota, 14 (100-249); Iowa, 13 (250-499); Nebraska, 3 (20-99); Kansas, 6 (100-249); South Atlantic—Delaware, 5 (100-249); District of Columbia, 3 (20-99); West Virginia, 1 (1-19); Florida, 7 (20-99); East South Central—Kentucky, 3 (250-499); Tennessee, 6 (20-99); Mississippi, 2 (100-249); West South Central—Arkansas, 4 (100-249); Oklahoma, 7 (20-99); Mountain—Montana, 1 (1-19); Idaho, 1 (1-19); New Mexico, 1 (1-19); Arizona, 1 (20-99); Utah, 4 (100-249); Pacific—Washington, 15 (250-499); Oregon, 9 (100-249).

S.I.C. 2036, Fresh or Frozen Packaged Fish: New England—Maine, 9 (250-499); New Hampshire, 2 (20-99); Rhode Island, 1 (20-99); Middle Atlantic—New Jersey, 10 (250-499); Pennsylvania, 5 (250-499); North Central—Ohio, 3 (20-99); Wisconsin, 3 (20-99); Minnesota, 1 (1-19); South Atlantic—North Carolina, 8 (20-99); South Carolina, 2 (1-19); East South Central—Kentucky, 1 (1-19); Tennessee, 1 (1-19); Alabama, 2 (20-99); Mississippi, 7 (20-99).

S.I.C. 2037, Frozen Fruits and Vegetables: New England—Maine, 2 (20-99); Massachusetts, 4 (20-99); Middle Atlantic—New Jersey, 6 (1,543); Pennsylvania, 11 (500-999); North Central—Ohio, 1 (100-249); Indiana, 1 (1-19); Illinois, 3 (1-19); Wisconsin, 2 (20-99); Minnesota, 2 (500-999); Iowa, 1 (1-19); Missouri, 4 (1-19); South Atlantic—Virginia, 4 (250-499); North Carolina, 1 (20-99); South Carolina, 1 (1-19); Georgia, 2 (20-99); East South Central—Kentucky, 3 (20-99); West South Central—Louisiana, 4 (250-499); Oklahoma, 1 (20-99); Idaho, 2 (500-999); New Mexico, 1 (1-19); Utah, 2 (20-99).

## CANNING, PRESERVING, AND FREEZING

20C-9

Table 3.—DETAILED STATISTICS FOR THE UNITED STATES: 1954

(For explanation of line captions see Introduction)

Item	Canned seafood (S.I.C. 2031)	Cured fish (S.I.C. 2032)	Canned fruits and vegetables (S.I.C. 2033)	Dehydrated fruits and vegetables (S.I.C. 2034)
Primary products specialization ratio <sup>1</sup> .....	96	97	90	95
Coverage ratio <sup>2</sup> .....	94	91	94	97
Number of establishments, total.....	239	90	1,758	148
With 1-19 employees.....	88	67	760	84
With 20-99 employees.....	121	20	715	42
With 100 employees and over.....	30	3	283	22
All employees:				
Number (average for year).....	15,131	1,726	119,836	7,011
Payroll.....\$1,000..	37,062	5,709	354,746	22,026
Production workers:				
Number (average for year).....	14,125	1,425	105,613	6,102
Man-hours.....1,000..	20,995	2,803	206,076	11,678
Wages.....\$1,000..	31,147	3,686	276,063	16,477
Value added by manufacture.....do...	70,387	10,512	830,019	55,176
Cost of materials, etc.....do...	168,011	25,024	1,398,928	137,024
Value of shipments.....do...	238,382	35,536	2,228,947	192,200
Value added by resales.....do...	3,050	802	11,014	166
Cost of products bought and resold.....do...	23,965	3,061	55,452	2,158
Sales of products bought and resold.....do...	27,016	3,864	66,467	2,324
Total inventories, beginning of year.....do...	49,745	5,878	662,219	52,117
Total inventories, end of year.....do...	69,673	5,832	667,973	53,574
Capital expenditures, new.....do...	2,083	646	49,916	3,421
Total employment, by month:				
January.....	13,144	1,678	79,419	(NA)
February.....	12,280	1,606	76,566	(NA)
March.....	11,636	1,665	78,379	5,920
April.....	12,823	1,943	81,313	(NA)
May.....	15,462	1,982	87,383	5,231
June.....	16,944	1,642	96,649	(NA)
July.....	18,187	1,481	156,968	(NA)
August.....	19,558	1,597	216,436	7,448
September.....do...	17,881	1,772	222,506	(NA)
October.....do...	16,445	1,727	141,816	(NA)
November.....do...	14,510	1,749	108,866	9,445
December.....do...	12,696	1,870	91,726	7,448
Cost of materials, fuel, electricity and contract work, total.....\$1,000..	167,995	25,024	1,398,928	137,024
Materials, parts, containers, and supplies consumed.....do...	165,876	24,694	1,376,720	135,482
Fuels consumed, total.....do...	870	192	13,775	802
Bituminous coal and anthracite:				
Quantity.....1,000 short tons..	13	6	669	4
Value.....\$1,000..	157	62	5,711	38
Coke:				
Quantity.....1,000 short tons..	( <sup>3</sup> )	( <sup>3</sup> )	2	( <sup>3</sup> )
Value.....\$1,000..	1	2	32	1
Fuel oil:				
Quantity.....1,000 barrels..	82	20	1,249	64
Value.....\$1,000..	271	72	3,771	293
Gas:				
Quantity.....million cubic feet..	783	57	10,163	1,045
Value.....\$1,000..	274	44	3,369	385
Other fuels:				
Value.....do...	167	12	892	85
Electric energy:				
Purchased:				
Quantity.....million kwh..	33	5	390	31
Cost.....\$1,000..	483	108	6,242	459
Generated.....million kwh..	( <sup>4</sup> )	( <sup>4</sup> )	19	...
Cost of contract work.....\$1,000..	766	30	2,191	281
Manufacturers' inventories:				
Beginning of year, total.....do...	49,745	5,878	662,219	52,117
Finished products.....do...	44,138	4,300	552,029	28,032
Work-in-process.....do...	( <sup>5</sup> )	( <sup>5</sup> )	15,328	7,387
Materials, supplies, fuel, etc.....do...	5,357	1,289	94,861	16,697
End of year, total.....do...	69,673	5,832	667,973	53,574
Finished products.....do...	64,394	4,300	560,284	30,404
Work-in-process.....do...	( <sup>5</sup> )	( <sup>5</sup> )	16,154	5,712
Materials, supplies, fuel, etc.....do...	4,806	1,184	91,535	17,458
Expenditures for plant and equipment, total.....do...	2,484	649	56,281	3,446
Capital expenditures, new.....do...	2,083	646	49,916	3,421
New structures and additions to plant.....do...	621	( <sup>5</sup> )	16,504	1,462
New machinery and equipment.....do...	1,462	( <sup>5</sup> )	33,412	1,958
Expenditures for used plant and equipment.....do...	( <sup>5</sup> )	( <sup>5</sup> )	6,364	( <sup>5</sup> )
Horsepower rating of power equipment at end of 1954:				
Horsepower of prime movers and electric motors driven by purchased energy, total.....1,000 hp..	46	3	500	30
Engines, etc. driving electric generators.....do...	2	( <sup>6</sup> )	25	1
Engines, etc. not driving electric generators.....do...	9	( <sup>6</sup> )	81	3
Electric motors driven by purchased energy.....do...	35	3	395	26
Electric motors driven by energy generated at the establishment.....do...	( <sup>6</sup> )	...	13	...

See footnotes at end of table.



## MANUFACTURES--INDUSTRY STATISTICS

Table 3.—DETAILED STATISTICS FOR THE UNITED STATES: 1954—Continued  
(For explanation of line captions see Introduction)

Item	Pickles and sauces (S.I.C. 2035)		Packaged seafood (S.I.C. 2036)	Frozen fruits and vegetables (S.I.C. 2037)	
	All establish- ments	Establishments with 90% or more primary product specialization	All establish- ments	All establish- ments	Establishments with 90% or more primary product specialization
Primary product specialization ratio <sup>1</sup> .....	80	xxx	94	88	xxx
Coverage ratio <sup>2</sup> .....	75	xxx	95	84	xxx
Number of establishments, total.....	717	582	295	266	212
With 1-19 employees.....	497	434	160	98	87
With 20-99 employees.....	161	115	108	104	79
With 100 employees and over.....	59	33	27	64	46
All employees:					
Number (average for year).....	21,895	13,133	12,200	21,436	13,949
Payroll.....\$1,000..	67,084	38,125	27,190	59,238	38,068
Production workers:					
Number (average for year).....	18,230	11,244	11,232	18,638	12,427
Man-hours.....1,000..	35,977	21,932	18,779	36,104	23,926
Wages.....\$1,000..	47,594	27,958	21,549	45,879	30,448
Value added by manufacture.....	140,925	70,051	45,697	148,517	98,891
Cost of materials, etc.....	340,582	189,304	118,968	268,623	166,658
Value of shipments.....	481,507	259,355	164,625	417,140	265,549
Value added by resales.....	4,373	3,518	1,607	1,641	754
Cost of products bought and resold.....	17,208	13,299	10,534	16,182	10,440
Sales of products bought and resold.....	21,581	16,817	12,141	17,824	11,195
Total inventories, beginning of year.....	98,769	47,474	20,531	88,793	55,654
Total inventories, end of year.....	96,566	47,817	21,723	107,880	63,463
Capital expenditures, new.....	7,579	3,478	2,813	10,638	5,112
Total employment, by month:					
January.....	17,796	(NA)	11,528	15,479	(NA)
February.....	15,071	(NA)	11,687	14,391	(NA)
March.....	18,148	11,361	11,643	14,913	8,800
April.....	18,743	(NA)	10,616	17,559	(NA)
May.....	19,813	12,525	9,845	19,505	12,305
June.....	20,839	(NA)	9,767	23,224	(NA)
July.....	23,069	(NA)	10,755	27,249	(NA)
August.....	36,759	17,183	11,456	31,411	20,612
September.....	31,576	(NA)	12,777	32,030	(NA)
October.....	22,529	(NA)	15,374	23,822	(NA)
November.....	17,827	11,446	15,688	19,850	12,908
December.....	17,571	(NA)	15,259	17,799	(NA)
Cost of materials, fuel, electricity and contract work, total.....\$1,000..	340,582	189,304	118,968	268,623	166,658
Materials, parts, containers, and supplies consumed.....	330,485	186,872	116,157	260,556	161,680
Fuels consumed, total.....	2,071	1,062	597	3,329	1,608
Bituminous coal and anthracite:					
Quantity.....1,000 short tons..	86	(NA)	9	17	(NA)
Value.....\$1,000..	777	(NA)	93	165	(NA)
Coke:					
Quantity.....1,000 short tons..	2	(NA)	...	...	...
Value.....\$1,000..	20	(NA)	...	...	...
Fuel oil:					
Quantity.....1,000 barrels..	229	(NA)	85	935	(NA)
Value.....\$1,000..	751	(NA)	390	2,482	(NA)
Gas:					
Quantity.....million cubic feet..	1,451	(NA)	213	990	(NA)
Value.....\$1,000..	445	(NA)	81	409	(NA)
Other fuels:					
Value.....do....	78	(NA)	33	273	(NA)
Electric energy:					
Purchased:					
Quantity.....million kwh..	83	40	40	262	173
Cost.....\$1,000..	1,339	692	664	3,272	2,212
Generated.....million kwh..	( <sup>3</sup> )	( <sup>3</sup> )	...	8	1
Sold:					
Quantity.....million kwh..	...	...	...	12	...
Value.....\$1,000..	...	...	...	12	...
Cost of contract work.....	687	678	1,550	1,466	1,158
Manufacturers' inventories:					
Beginning of year, total.....	98,769	47,474	20,531	88,793	55,654
Finished products.....	51,827	21,469	15,161	73,572	46,408
Work-in-process.....	17,734	10,602	961	4,009	2,172
Materials, supplies, fuel, etc.....	29,207	15,402	4,408	11,211	7,073
End of year, total.....	96,566	47,817	21,723	107,880	63,463
Finished products.....	50,228	21,293	16,386	89,190	52,967
Work-in-process.....	17,091	11,086	1,201	7,602	3,862
Materials, supplies, fuel, etc.....	29,246	15,437	4,136	11,087	6,634
Expenditures for plant and equipment, total.....	7,822	3,638	4,697	10,906	5,285
Capital expenditures, new.....	7,579	3,478	2,813	10,638	5,112
New structures and additions to plant.....	2,385	887	841	2,695	1,319
New machinery and equipment.....	5,193	2,591	1,971	7,943	3,793
Expenditures for used plant and equipment.....	( <sup>3</sup> )	( <sup>3</sup> )	1,884	( <sup>3</sup> )	( <sup>3</sup> )
Horsepower rating of power equipment at end of 1954:					
Horsepower of prime movers and electric motors driven by purchased energy, total.....1,000 hp..	63	26	18	166	114
Engines, etc. driving electric generators.....do....	1	1	1	11	4
Engines, etc. not driving electric generators.....do....	8	1	2	23	20
Electric motors driven by purchased energy.....do....	53	24	15	131	90
Electric motors driven by energy generated at the establishment.....do....	( <sup>6</sup> )	( <sup>6</sup> )	...	4	( <sup>6</sup> )

Note: Detailed figures may not add to the totals because of independent rounding.   xxx Not applicable.   NA Not available.

<sup>1</sup>The specialization ratio compares the given industry's shipments of its primary products to its total shipments of all products. (The primary products are listed in Tables 5B and 6A; the first 4-digits of the product code represent the industry code to which the product is primary.) Columns containing totals for establishments with 90% or more primary product specialization are shown only for those industries having a primary product specialization of less than 90%.

<sup>2</sup>The coverage ratio measures the extent to which the total shipments of products primary to the given industry are shipped by establishments classified in that industry.

<sup>3</sup>Less than 500 tons.

<sup>4</sup>Less than 500 thousand kwh.

<sup>5</sup>Less than \$500 thousand.

<sup>6</sup>Less than 500 hp.

Table 4.—SELECTED STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR THE UNITED STATES: 1954

(Value figures in thousands of dollars. For explanation of line captions see Introduction. Data which cannot be shown without disclosing information for individual companies have been combined with figures for other size classes. A (D) appears in the column where the figure has been omitted and the combined figure is underlined and shown in the size-class to the left)

Ind. code	Industry and item	Total, all estab- lish- ments	Establishments with an average of—									
			1-4 em- ployees	5-9 em- ployees	10-19 em- ployees	20-49 em- ployees	50-99 em- ployees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
2031	Canned seafood:											
	Number of establishments..	239	36	20	32	66	55	20	7	2	1	...
	Number of employees.....	15,131	80	145	476	2,348	3,793	3,103	2,423	<u>2,759</u>	(D)	...
	Value added by manufacture	70,387	488	704	1,836	9,200	12,370	10,702	13,920	<u>21,164</u>	(D)	...
2032	Cured fish:											
	Number of establishments..	90	31	21	15	16	4	3	...	...	...	...
	Number of employees.....	1,726	79	159	219	464	803	(D)	...	...	...	...
	Value added by manufacture	10,512	480	1,019	1,305	2,884	<u>4,823</u>	(D)	...	...	...	...
2033	Canned fruits & vegetables:											
	Number of establishments..	1,758	377	151	232	435	280	195	59	22	5	2
	Number of employees.....	119,836	885	1,076	3,386	14,112	19,537	31,361	19,793	13,929	<u>15,755</u>	(D)
	Value added by manufacture	830,019	5,798	6,158	15,763	68,849	97,084	215,984	133,728	116,211	<u>170,441</u>	(D)
2034	Dehydrated fruits & vegetables:											
	Number of establishments..	148	45	16	23	30	12	16	5	1	...	...
	Number of employees.....	7,011	108	117	328	975	871	2,672	<u>1,937</u>	(D)	...	...
	Value added by manufacture	55,176	811	667	1,919	6,635	5,689	27,426	<u>12,027</u>	(D)	...	...
2035	Pickles and sauces:											
	Number of establishments..	717	279	102	116	111	50	43	15	1	...	...
	Number of employees.....	21,895	685	723	1,690	3,514	3,339	6,413	<u>5,527</u>	(D)	...	...
	Value added by manufacture	140,925	3,479	5,350	8,075	18,504	20,945	38,783	<u>45,786</u>	(D)	...	...
2036	Packaged seafood:											
	Number of establishments..	295	49	39	72	68	40	20	6	1	...	...
	Number of employees.....	12,200	135	295	1,044	2,156	2,667	3,300	<u>2,600</u>	(D)	...	...
	Value added by manufacture	45,657	750	1,548	3,597	7,123	9,696	12,827	<u>10,112</u>	(D)	...	...
2037	Frozen fruits & vegetables:											
	Number of establishments..	266	41	24	33	50	54	48	11	3	2	...
	Number of employees.....	21,436	102	161	459	1,684	3,902	7,109	3,474	<u>4,542</u>	(D)	...
	Value added by manufacture	148,517	829	883	2,026	8,325	24,816	53,918	23,914	<u>33,803</u>	(D)	...

Note: Detailed figures may not add to the totals because of independent rounding.

Table 5A.—INDUSTRY-PRODUCT ANALYSIS—SUMMARY OF INDUSTRY AND PRIMARY PRODUCT SHIPMENTS, SPECIALIZATION RATIOS AND COVERAGE RATIOS FOR THE UNITED STATES: 1954 AND 1947

Industry code	Industry and census year	Value of shipments					Value of primary products shipped			
		Total	Primary products	Secondary products	Miscellaneous receipts	Primary product specialization ratio <sup>1</sup>	Total (made in all industries)	Made in this industry	Made in other industries	Coverage ratio <sup>2</sup>
		(\$1,000) (A)	(\$1,000) (B)	(\$1,000) (C)	(\$1,000) (D)	Col. B Col. B+C (Percent) (E)	(\$1,000) (F)	(\$1,000) (G)	(\$1,000) (H)	Col. G Col. F (Percent) (I)
2031	Canned seafood.....1954..	238,382	225,100	10,594	2,688	96	238,404	225,100	13,304	94
	.....1947..	226,519	203,505	20,755	2,259	91	211,974	203,505	8,469	96
2032	Cured fish.....1954..	35,536	34,294	969	273	97	37,621	34,294	3,327	91
	.....1947..	31,077	29,413	761	903	97	33,392	29,413	3,979	88
2033	Canned fruits and vegetables.1954..	2,228,947	1,989,764	224,809	14,374	90	2,112,507	1,989,764	122,743	94
	.....1947..	1,640,754	1,487,710	148,029	5,015	91	1,576,537	1,487,710	88,827	94
2034	Dehydrated fruits and vegetables.....1954..	192,200	180,164	10,074	1,962	95	185,497	180,164	5,333	497
	.....1947..	51,079	47,674	2,024	1,381	96	52,857	47,674	5,183	490
2035	Pickles and sauces.....1954..	481,507	385,114	93,822	2,571	80	516,716	385,114	131,602	75
	.....1947..	357,860	298,433	54,951	4,476	84	432,511	298,433	134,078	69
2036	Packaged seafood <sup>3</sup> .....1954..	164,625	150,558	8,925	5,142	94	158,049	150,558	7,491	95
	.....1947..	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
2037	Frozen fruits and vegetables <sup>3</sup> 1954..	417,140	363,135	50,408	3,597	88	431,252	363,135	68,117	84
	.....1947..	155,076	132,901	16,073	6,102	89	159,087	132,901	26,186	84

NA Not available.

<sup>1</sup>The specialization ratio compares the given industry's shipments of its primary products to its total shipments of all products. (The primary products are listed in Tables 5B and 6A; the first 4-digits of the product code represent the industry code to which the product is primary.)<sup>2</sup>The coverage ratio measures the extent to which the total shipments of products primary to the given industry are shipped by establishments classified in that industry.<sup>3</sup>1947 data for Industry 2036, Packaged Seafood, included with Industry 2037, Frozen Fruits and Vegetables. See Table 1, footnote 11. The 1947 shipments figures for Industry 2037 are overstated by about 20 percent due to this change in definition (see text for industry). The coverage and specialization ratios for 1947 are, however, approximately the same as those which would have been derived had the 1947 data been retabulated to reflect the changed definition of Industry 2037.<sup>4</sup>The coverage ratios for this industry would be substantially smaller if total commercial production, including production in wholesale establishments, were compared to shipments of Industry 2034 (see text for industry).



## CANNING, PRESERVING, AND FREEZING

20C-13

Table 5B.—INDUSTRY-PRODUCT ANALYSIS—SHIPMENTS BY PRODUCT CLASS AND INDUSTRY, FOR THE UNITED STATES: 1954

(In thousands of dollars. The first column shows the total value of shipments of the specified industry divided among: (a) products classified in the industry (primary products), (b) products classified in other industries (secondary products) and (c) miscellaneous receipts. The value of shipments of the primary products of the specified industry reported by establishments not classified in that industry is shown under the caption "Other Industries." Industries accounting for significant amounts of the primary products listed are shown in separate columns provided that the figures for individual companies are not thereby disclosed. The last column shows the total value of shipments of the primary products of the industry by all manufacturing industries)

Prod. class code	Canned seafood industry	Canned seafood (S.I.C. 2031)	Other industries	All industries
	Total shipments and receipts of the industry.....	238,382	xxx	xxx
20310	Canned fish and other seafood, except frozen.....	225,100	<sup>1</sup> 13,304	238,404
	Secondary products.....	10,594	xxx	xxx
20361	Frozen packaged fish and other seafood.....	3,744	xxx	xxx
28893	Marine animal oil mill products.....	3,760	xxx	xxx
	Other secondary products.....	3,090	xxx	xxx
	Miscellaneous receipts.....	2,688	xxx	xxx
	Contract and commission work.....	1,683	xxx	xxx
	Other.....	1,005	xxx	xxx
Prod. class code	Cured fish industry	Cured fish (S.I.C. 2032)	Other industries	All industries
	Total shipments and receipts of the industry.....	35,536	xxx	xxx
20320	Cured fish and other seafood.....	34,294	<sup>2</sup> 3,327	37,621
	Secondary products.....	969	xxx	xxx
	Miscellaneous receipts.....	273	xxx	xxx
Prod. class code	Canned fruits and vegetables industry	Canned fruits and vegetables (S.I.C. 2033)	Other industries	All industries
	Total shipments and receipts of the industry.....	2,228,947	xxx	xxx
	Primary products.....	1,989,764	122,743	2,112,507
20331	Canned fruits.....	440,883	<sup>3</sup> 12,287	453,170
20332	Canned seasonal vegetables.....	486,345	414,531	500,876
20333	Canned nonseasonal vegetables and specialties.....	282,275	<sup>5</sup> 19,074	307,349
20334	Canned fruit juices.....	139,567	<sup>6</sup> 27,639	167,206
20335	Canned vegetable juices.....	60,610	<sup>7</sup> 3,912	64,522
20336	Canned baby foods.....	(D)	(D)	148,746
20337	Canned soups and poultry products.....	<sup>8</sup> 77,085	<sup>9</sup> 15,970	293,055
20338	Jams, jellies, and preserves.....	132,059	<sup>9</sup> 27,897	159,956
20330	Canned fruits and vegetables, not specified by kind.....	(D)	(D)	17,627
	Secondary products.....	224,809	xxx	xxx
20310	Canned fish and other seafood, except frozen.....	6,606	xxx	xxx
20351	Catsup and other tomato sauces.....	67,647	xxx	xxx
20352	Pickles and other pickled products.....	13,997	xxx	xxx
20353	Mustard and other meat sauces, except tomato.....	6,387	xxx	xxx
20354	Salad dressings, including mayonnaise.....	3,527	xxx	xxx
20371	Frozen fruits and juices.....	42,407	xxx	xxx
20372	Frozen vegetables.....	12,894	xxx	xxx
20133	Canned meats, except dog and cat food.....	10,855	xxx	xxx
20954	Other flavoring agents, except chocolate syrup.....	3,639	xxx	xxx
20995	Roasted coffee.....	3,238	xxx	xxx
20996	Vinegar and cider.....	11,457	xxx	xxx
20997	Other food preparations, including mincemeat.....	14,378	xxx	xxx
	Other secondary products.....	27,777	xxx	xxx
	Miscellaneous receipts.....	14,374	xxx	xxx
	Contract and commission work.....	11,434	xxx	xxx
	Other.....	2,940	xxx	xxx
Prod. class code	Pickles and sauces industry	Pickles and sauces (S.I.C. 2035)	Other industries	All industries
	Total shipments and receipts of the industry.....	481,507	xxx	xxx
	Primary products.....	385,114	131,602	516,716
20351	Catsup and other tomato sauces.....	45,319	<sup>10</sup> 68,639	113,958
20352	Pickles and other pickled products.....	116,375	<sup>11</sup> 19,223	135,598
20353	Mustard and other meat sauces, except tomato.....	31,177	<sup>12</sup> 15,521	46,698
20354	Salad dressings, including mayonnaise.....	174,634	<sup>13</sup> 27,063	201,697
20355	Unfinished pickles (salt stock).....	9,395	810	10,205
20350	Pickles and sauces, not specified by kind.....	8,214	346	8,560
	Secondary products.....	93,822	xxx	xxx
20331	Canned fruits.....	2,729	xxx	xxx
20332	Canned seasonal vegetables.....	3,834	xxx	xxx
20333	Canned nonseasonal vegetables and specialties.....	7,124	xxx	xxx
20334	Canned fruit juices.....	2,453	xxx	xxx
20335	Canned vegetable juices.....	3,600	xxx	xxx
20338	Jams, jellies, and preserves.....	9,979	xxx	xxx
20920	Shortening and salad oils, except margarine.....	15,710	xxx	xxx
20993	Sweetening sirups, and molasses, mixed or blended.....	3,369	xxx	xxx
20996	Vinegar and cider.....	4,620	xxx	xxx
20997	Other food preparations, n.e.c.....	10,121	xxx	xxx
	Other secondary products.....	30,283	xxx	xxx
	Miscellaneous receipts.....	2,571	xxx	xxx
	Contract and commission work.....	2,506	xxx	xxx
	Other.....	( <sup>14</sup> )	xxx	xxx

See footnotes at end of table.

## MANUFACTURES--INDUSTRY STATISTICS

Table 5B.—INDUSTRY-PRODUCT ANALYSIS—SHIPMENTS BY PRODUCT CLASS AND INDUSTRY, FOR THE UNITED STATES: 1954—Continued

Prod. class code	Dehydrated fruits and vegetables industry	Dehydrated fruits and vegetables (S.I.C. 2034)	Other industries	All industries
	Total shipments and receipts of the industry.....	192,200	xxx	xxx
20340	Dried and dehydrated fruits, and vegetables and soup mix.....	180,164	5,333	185,497
	Secondary products.....	10,074	xxx	xxx
	Miscellaneous receipts.....	1,962	xxx	xxx
Prod. class code	Packaged seafood industry	Packaged seafood (S.I.C. 2036)	Other industries	All industries
	Total shipments and receipts of the industry.....	164,625	xxx	xxx
	Primary products.....	150,558	7,491	158,049
20361	Frozen packaged fish and other seafood.....	97,656	<sup>15</sup> 6,295	103,951
20362	Fresh packaged fish and other seafood.....	52,448	1,104	53,552
20360	Packaged seafood, not specified by kind.....	454	92	546
	Secondary products.....	8,925	xxx	xxx
20310	Canned fish and other seafood, except frozen.....	4,355	xxx	xxx
20320	Cured fish and other seafood.....	2,179	xxx	xxx
	Other secondary products.....	2,391	xxx	xxx
	Miscellaneous receipts.....	5,142	xxx	xxx
	Contract and commission work.....	3,480	xxx	xxx
	Other.....	1,662	xxx	xxx
Prod. class code	Frozen fruit and vegetables industry	Frozen fruit and vegetables (S.I.C. 2037)	Other industries	All industries
	Total shipments and receipts of the industry.....	417,140	xxx	xxx
	Primary products.....	363,135	68,117	431,252
20371	Frozen fruits and juices.....	208,277	<sup>16</sup> 48,204	256,481
20372	Frozen vegetables.....	148,476	<sup>17</sup> 19,673	168,149
20370	Frozen fruits and vegetables, not specified by kind.....	6,382	240	6,622
	Secondary products.....	50,408	xxx	xxx
20331	Canned fruits.....	4,800	xxx	xxx
20332	Canned seasonal vegetables.....	6,088	xxx	xxx
20334	Canned fruit juices.....	18,375	xxx	xxx
20997	Other food preparations, n.e.c.....	8,560	xxx	xxx
28920	Essential oils.....	6,602	xxx	xxx
	Other secondary products.....	5,983	xxx	xxx
	Miscellaneous receipts.....	3,597	xxx	xxx
	Contract and commission work.....	2,376	xxx	xxx
	Other.....	1,221	xxx	xxx

xxx Not applicable.

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>Includes shipments of specified amounts (in thousands) by the following industries: \$6,606 by Industry 2033, Canned Fruits and Vegetables, and \$4,355 by Industry 2036, Packaged Seafood.<sup>2</sup>Includes \$2,179 thousand shipped by Industry 2036, Packaged Seafood.<sup>3</sup>Includes shipments of specified amounts (in thousands) by the following industries: \$2,729 by Industry 2035, Pickles and Sauces; and \$4,800 by Industry 2037, Frozen Fruits and Vegetables.<sup>4</sup>Includes shipments of specified amounts (in thousands) by the following industries: \$3,834 by Industry 2035, Pickles and Sauces; \$6,088 by Industry 2037, Frozen Fruits and Vegetables; and \$2,492 by Industry 2099, Food Preparations, N.E.C.<sup>5</sup>Includes shipments of specified amounts (in thousands) by the following industries: \$7,063 by Industry 2013, Prepared Meats and \$7,124 by Industry 2035, Pickles and Sauces.<sup>6</sup>Includes shipments of specified amounts (in thousands) by the following industries: \$2,453 by Industry 2035, Pickles and Sauces; and \$18,375 by Industry 2037, Frozen Fruits and Vegetables.<sup>7</sup>Includes shipments of \$3,600 thousand by Industry 2035, Pickles and Sauces.<sup>8</sup>Includes shipments of \$11,369 thousand by Industry 2099, Food Preparations, N.E.C.<sup>9</sup>Includes shipments of specified amounts (in thousands) by the following industries: \$9,979 by Industry 2035, Pickles and Sauces; and \$10,233 by Industry 2099, Food Preparations, N.E.C.<sup>10</sup>Includes \$67,647 thousand shipped by Industry 2033, Canned Fruits and Vegetables.<sup>11</sup>Includes shipments of specified amounts (in thousands) by the following industries: \$13,997 by Industry 2033, Canned Fruits and Vegetables; and \$3,006 by Industry 2099, Food Preparations, N.E.C.<sup>12</sup>Includes shipments of specified amounts (in thousands) by the following industries: \$6,387 by Industry 2033, Canned Fruits and Vegetables; and \$8,773 by Industry 2099, Food Preparations, N.E.C.<sup>13</sup>Includes shipments of specified amounts (in thousands) by the following industries: \$3,527 by Industry 2033, Canned Fruits and Vegetables; \$6,426 by Industry 2093, Margarine; and \$12,291 by Industry 2099, Food Preparations, N.E.C.<sup>14</sup>Less than \$100 thousand.<sup>15</sup>Includes \$3,744 thousand shipped by Industry 2031, Canned Seafood.<sup>16</sup>Includes shipments of specified amounts (in thousands) by following industries: \$42,407 by Industry 2033, Canned Fruits and Vegetables; and \$2,379 by Industry 2099, Food Preparations, N.E.C.<sup>17</sup>Includes shipments of specified amounts (in thousands) by the following industries: \$12,894 by Industry 2033, Canned Fruits and Vegetables; and \$5,604 by Industry 2099, Food Preparations, N.E.C.

## CANNING, PRESERVING, AND FREEZING

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Table 6A.--QUANTITY AND VALUE OF PRODUCTS PRODUCED BY ALL MANUFACTURING ESTABLISHMENTS, FOR THE UNITED STATES: 1954 AND 1947

Product code	Product	Unit of quantity	Total production			
			1954		1947	
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
2031---	Canned seafood <sup>1</sup> .....	Thousand pounds..	507,986	239,945	503,460	218,057
2031011	Canned fish and other seafood.....	...do.....	471,047	232,180	465,186	210,753
	Salmon (excluding Alaska pack).....	...do.....	51,282	28,923	63,842	31,987
	Sardines, Maine (herring).....	...do.....	59,579	18,153	57,544	27,678
	Sardines, California (pilchards).....	...do.....	60,214	9,818	74,367	16,538
	Tuna, solid meat.....	...do.....	217,263	135,327	79,575	61,231
	Tuna, flakes and grated.....	...do.....	3,461	2,230	37,694	29,378
	Mackerel, including jack mackerel.....	...do.....	16,478	2,509	78,973	15,019
	Whiting (silver hake).....	...do.....	...	...	10,616	1,423
	Anchovies.....	...do.....	9,866	2,773	6,246	1,377
	Other species of fish.....	...do.....	9,694	829	14,790	2,965
	Fish cakes and loaf.....	...do.....	4,381	1,295	12,659	3,271
	Roe, caviar and other fish products.....	...do.....	1,848	1,300	3,434	1,844
	Whole and minced clams (drained weight).....	...do.....	5,767	4,061	1,594	1,346
	Crabs.....	...do.....	2,166	2,447	2,726	2,705
	Oysters (drained weight).....	...do.....	6,266	5,975	5,780	4,304
	Shrimp (drained weight).....	...do.....	14,115	13,791	7,085	8,192
	Other seafood.....	...do.....	6,667	2,749	11,761	1,495
2031051	Canned clam chowder, broth, bouillon and juice.....	...do.....	36,939	7,765	34,574	7,304
2032---	Cured fish.....	.....	xxx	37,621	xxx	33,392
2032011	Smoked salmon.....	Thousand pounds..	11,689	6,838	9,830	5,546
2032021	Other smoked fish (herring, white fish, chub, cisco, etc.).....	...do.....	24,108	13,104	23,894	8,383
	Salted and pickled fish:					
2032031	Sold for further processing.....	...do.....	2,894	686	9,338	1,763
2032035	Sold for consumption.....	...do.....	53,251	12,399	53,754	14,439
2032000	Cured fish, not specified by kind.....	.....	xxx	4,594	xxx	3,261
2033---	Canned fruits and vegetables.....	.....	xxx	2,112,507	xxx	1,576,537
20331	Canned fruits.....	.....	xxx	453,170	xxx	368,636
2033111	Apples.....	.....	xxx	21,107	xxx	11,603
	Tin:					
	No. 303.....	Thousand dozen..	257	659	(NA)	11,603
	No. 2.....	...do.....	2,679	6,491		
	No. 10.....	...do.....	51,197	12,297		
	Miscellaneous tin.....	...do.....	148	371		
	Miscellaneous glass.....	...do.....	108	336		
	Container not specified.....	...do.....	472	953		
2033113	Apple sauce.....	.....	xxx	36,427	xxx	17,589
	Tin:					
	8 oz.....	Thousand dozen..	51,127	51,006	(D)	(D)
	No. 303 and 300 cylinder.....	...do.....	513,047	521,554	614	672
	No. 2.....	...do.....			10,716	13,495
	No. 10.....	...do.....	566	54,916	386	2,424
	Glass:					
	15 oz. and 303 (16 oz. and 17 oz.).....	...do.....	54,085	57,725	(D)	(D)
	Miscellaneous tin.....	...do.....	395	594	210	938
	Miscellaneous glass.....	...do.....	417	488		
	Container not specified.....	...do.....	63	144		
2033115	Apricots.....	.....	xxx	17,435	xxx	17,721
	Tin:					
	8 oz.....	Thousand dozen..	585	781	(D)	(D)
	8 Z tall or No. 55.....	...do.....	411	510	(D)	(D)
	No. 303.....	...do.....	1,617	3,136	(D)	(D)
	No. 1 tall.....	...do.....	(D)	(D)	2,064	3,455
	No. 2 1/2.....	...do.....	2,470	7,113	3,856	10,043
	No. 10.....	...do.....	579	5,097	378	2,705
	Miscellaneous tin and glass.....	...do.....	353	798	484	1,518
2033117	Berries, except cranberries.....	.....	xxx	10,296	xxx	7,831
	Tin:					
	8 oz., 8 Z tall and 8 Z short.....	Thousand dozen..	217	328	(D)	(D)
	No. 300 and 300 X.....	...do.....	1,109	2,981	402	1,002
	No. 303.....	...do.....	757	2,003	(NA)	(NA)
	No. 2.....	...do.....	306	1,068	1,468	3,562
	No. 10.....	...do.....	202	2,690	176	1,902
	Miscellaneous tin.....	...do.....	306	540	308	1,365
	Miscellaneous glass.....	...do.....	145	401		
	Container not specified.....	...do.....	95	285		

See footnotes at end of table.



## MANUFACTURES--INDUSTRY STATISTICS

Table 6A.—QUANTITY AND VALUE OF PRODUCTS PRODUCED BY ALL MANUFACTURING ESTABLISHMENTS, FOR THE UNITED STATES: 1954 AND 1947—Continued

Product code	Product	Unit of quantity	Total production			
			1954		1947	
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
2033--	Canned fruits and vegetables—Continued					
20331	Canned fruits—Continued					
2033121	Cherries, red pitted.....		xxx	17,543	xxx	13,370
	Tin:					
	8 oz. and 8 Z tall.....	Thousand dozen..	154	268	(D)	(D)
	No. 303.....	..do.....	1,831	4,258	(D)	(D)
	No. 2.....	..do.....	1,690	4,509	3,746	8,922
	No. 10.....	..do.....	490	6,129	341	4,085
	Miscellaneous tin.....	..do.....	161	664	96	251
	Miscellaneous glass.....	..do.....	337	976	26	112
	Container not specified.....	..do.....	233	739	xxx	xxx
2033123	Cherries, except red pitted and maraschino.....		xxx	11,470	xxx	5,137
	Tin:					
	8 Z tall or No. 55 and 8 oz.....	Thousand dozen..	729	1,189	(D)	(D)
	No. 303.....	..do.....	915	2,692	(D)	(D)
	No. 1 tall.....	..do.....	(D)	(D)	308	655
	No. 2.....	..do.....	(D)	(D)	268	736
	No. 2 1/2.....	..do.....	160	771	406	1,465
	No. 10.....	..do.....	124	2,002	96	1,097
	Glass:					
	7 3/16 oz.....	..do.....	137	639	...	...
	Miscellaneous tin.....	..do.....	227	621	274	1,184
	Miscellaneous glass.....	..do.....	912	2,803	xxx	xxx
	Container not specified.....	..do.....	xxx	753	xxx	xxx
2033125	Cranberries and cranberry sauce.....		xxx	21,320	xxx	20,461
	Tin:					
	No. 300 and 303.....	Thousand dozen..	11,028	20,886	7,906	14,938
	Miscellaneous tin and glass.....	..do.....	211	434	1,328	5,523
2033127	Figs.....		xxx	3,786	xxx	5,352
	Tin:					
	8 oz. and 8 Z tall.....	Thousand dozen..	341	414	(D)	(D)
	No. 303.....	..do.....	929	1,499	(D)	(D)
	No. 1 tall.....	..do.....	(D)	(D)	628	1,040
	No. 2 1/2.....	..do.....	(D)	(D)	692	1,910
	No. 10.....	..do.....	71	694	(D)	(D)
	Miscellaneous tin.....	..do.....	167	409	656	2,402
	Miscellaneous glass.....	..do.....	335	770	...	...
2033131	Grapefruit segments.....		xxx	12,110	xxx	12,376
	Tin:					
	8 oz. and 8 Z tall.....	Thousand dozen..	263	336	...	...
	No. 303, 300 cylinder and 303 cylinder.....	..do.....	5,718	9,277	...	...
	No. 2.....	..do.....	624	1,072	7,990	11,536
	No. 3 and No. 3 cylinder.....	..do.....	167	604	...	...
	Miscellaneous tin.....	..do.....	569	497	478	840
	Miscellaneous glass.....	..do.....	72	324	xxx	xxx
2033133	Mixed fruits (fruit for salads, fruit cocktail).....		xxx	74,687	xxx	73,080
	Tin:					
	8 oz.....	Thousand dozen..	2,747	3,573	(D)	(D)
	8 Z tall or No. 55.....	..do.....	3,064	5,003	1,544	1,900
	No. 300.....	..do.....	1,204	2,558	(D)	(D)
	No. 303.....	..do.....	9,993	22,359	(D)	(D)
	No. 1 tall.....	..do.....	(D)	(D)	12,556	26,926
	No. 2.....	..do.....	542	1,381	608	1,379
	No. 2 1/2.....	..do.....	7,801	26,386	10,420	35,090
	No. 10.....	..do.....	722	8,505	292	3,404
	Glass:					
	No. 303 and 16 or 17 oz.....	..do.....	266	831	(D)	(D)
	Miscellaneous tin.....	..do.....	419	946	1,092	4,381
	Miscellaneous glass.....	..do.....	xxx	2,514	...	...
	Container not specified.....	..do.....	xxx	631	...	...
2033135	Olives ripe and green ripe.....		xxx	14,921	xxx	15,950
	Tin:					
	8 oz. short and 8 Z tall.....	Thousand dozen..	308	464	(D)	(D)
	No. 1 tall.....	..do.....	(D)	(D)	490	1,459
	Pint.....	..do.....	606	1,714	(D)	(D)
	No. 303.....	..do.....	2,835	7,157	4,360	10,455
	No. 10.....	..do.....	180	1,407	157	2,317
	Miscellaneous tin.....	..do.....	733	1,423	404	1,398
	Miscellaneous glass.....	..do.....	669	2,074	74	321
	Container not specified.....	..do.....	xxx	682	xxx	xxx

See footnotes at end of table.

## CANNING, PRESERVING, AND FREEZING

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Table 6A.—QUANTITY AND VALUE OF PRODUCTS PRODUCED BY ALL MANUFACTURING ESTABLISHMENTS, FOR THE UNITED STATES: 1954 AND 1947—Continued

Product code	Product	Unit of quantity	Total production			
			1954		1947	
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
2033---	Canned fruits and vegetables—Continued					
20331	Canned fruits—Continued					
2033137	Olives, green, bottled, including stuffed.....		xxx	20,591	xxx	16,735
	Glass:					
	2 oz.....	Thousand dozen..	292	794		
	3 1/2 oz.....	..do.....	1,178	2,401		
	4 1/2, or 5 oz., 4 Z and 4 3/4 oz.....	..do.....	296	747		
	5 1/2 oz.....	..do.....	726	2,122		
	6 oz.....	..do.....	151	543		
	6 1/2 oz.—8 oz.....	..do.....	171	604		
	7 13/16 oz.....	..do.....	1,263	3,819		
	No. 1.....	..do.....	97	405	(NA)	(NA)
	12 oz., 12 1/2 or 14 oz.....	..do.....	740	2,524		
	16 oz., 15 oz., No. 303 and 18 oz.....	..do.....	270	1,261		
	1 quart.....	..do.....	93	835		
	Full gallon.....	..do.....	60	1,465		
	Miscellaneous tin.....	..do.....	50	200		
	Miscellaneous glass.....	..do.....	806	787		
	Container not specified.....	..do.....	xxx	2,084		
2033151	Peaches.....		xxx	104,406	xxx	96,399
	Tin:					
	8 oz. and 8 Z short.....	Thousand dozen..	1,985	2,353	688	599
	8 Z tall or No. 55.....	..do.....	2,482	2,987	1,172	961
	No. 300.....	..do.....	926	1,611	1,088	1,361
	No. 303 and 303 cylinder.....	..do.....	7,609	14,450	(D)	(D)
	No. 1 tall.....	..do.....	(D)	(D)	7,252	10,946
	No. 2.....	..do.....	186	469	586	1,116
	No. 2 1/2.....	..do.....	23,457	63,020	28,822	271,190
	No. 10.....	..do.....	1,795	15,296	1,202	8,136
	Glass:					
	No. 303.....	..do.....	227	390	(D)	(D)
	No. 2 1/2.....	..do.....	391	1,360	(2)	(2)
	Miscellaneous tin.....	..do.....	121	244	106	230
	Miscellaneous glass.....	..do.....	23	150	608	1,840
	Container not specified.....	..do.....	xxx	2,076	xxx	xxx
2033153	Pears.....		xxx	51,605	xxx	39,086
	Tin:					
	8 oz.....	Thousand dozen..	1,252	1,659	(D)	(D)
	8 Z tall or No. 55.....	..do.....	2,043	2,866	(D)	(D)
	No. 300 and 303 and No. 303 cylinder.....	..do.....	5,952	13,563	(D)	(D)
	No. 1 tall.....	..do.....	(D)	(D)	252	4,069
	No. 2.....	..do.....	(D)	(D)	380	881
	No. 2 1/2.....	..do.....	7,582	25,317	7,924	27,768
	No. 10.....	..do.....	669	7,104	424	4,739
	Miscellaneous tin.....	..do.....	294	442	500	1,629
	Miscellaneous glass.....	..do.....	181	469	xxx	xxx
	Container not specified.....	..do.....	xxx	185	xxx	xxx
2033155	Plums and prunes, all varieties.....		xxx	9,079	xxx	8,609
	Tin:					
	No. 303 cylinder and No. 2 1/2.....	Thousand dozen..	1,60	3,671	2,280	4,328
	No. 10.....	..do.....	235	1,626	193	1,296
	Glass:					
	No. 303 or 16 or 17 oz.....	..do.....	954	1,853	(D)	(D)
	Miscellaneous tin.....	..do.....	419	681	1,228	2,985
	Miscellaneous glass.....	..do.....	(D)	950	xxx	xxx
	Container not specified.....	..do.....	xxx	298	xxx	xxx
2033198	Other canned fruits.....		xxx	26,387	xxx	7,337
	Tin:					
	8 oz.....	Thousand dozen..	421	484	(D)	(D)
	8 Z tall or No. 55.....	..do.....	620	774	(D)	(D)
	No. 300.....	..do.....	121	307	(D)	(D)
	No. 1 tall.....	..do.....	792	1,238	(D)	(D)
	No. 303.....	..do.....	1,384	2,832	(D)	(D)
	No. 2.....	..do.....	1,566	4,820	1,100	2,720
	No. 2 1/2.....	..do.....	116	447	1,048	1,512
	No. 10.....	..do.....	128	1,468	142	1,046
	5 gallon and 30 lb.....	..do.....	56	671	(D)	(D)
	No. 3 1/2 oz. and 4 3/4 oz.....	..do.....	390	717	(D)	(D)
	Glass:					
	No. 7 13/16.....	..do.....	176	576	(D)	(D)
	No. 1.....	..do.....	87	345	(D)	(D)
	12 oz.....	..do.....	315	948	(D)	(D)
	16 oz.....	..do.....	186	866	(D)	(D)
	No. 303 - 16 or 17 oz.....	..do.....	222	860	(D)	(D)
	No. 2 1/2 and 30 oz.....	..do.....	244	610	(D)	(D)
	1 quart.....	..do.....	86	541	(D)	(D)
	Miscellaneous tin.....	..do.....	452	920	590	788
	Miscellaneous glass.....	..do.....	525	903	452	1,271
	Container not specified.....	..do.....	xxx	6,060	xxx	xxx

See footnotes at end of table.

Table 6A.--QUANTITY AND VALUE OF PRODUCTS PRODUCED BY ALL MANUFACTURING ESTABLISHMENTS, FOR THE UNITED STATES: 1954 AND 1947--Continued

Product code	Product	Unit of quantity	Total production			
			1954		1947	
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
2033-- 20332	Canned fruits and vegetables--Continued					
	Canned seasonal vegetables.....		xxx	500,876	xxx	375,112
2033211	Asparagus.....		xxx	38,416	xxx	24,195
	Tin:					
	8 oz.....	Thousand dozen...	514	845	(D)	(D)
	8 Z tall and 8 Z mushroom.....	do.....	1,505	2,695	452	666
	No. 1 picnic.....	do.....	3,450	9,027	3,620	7,342
	No. 211 cylinder.....	do.....	125	307	(D)	(D)
	No. 300.....	do.....	4,610	13,361	1,960	3,710
	No. 300 X.....	do.....	97	264		
	No. 303.....	do.....	469	1,399		
	No. 1 tall.....	do.....	425	948	(D)	(D)
	300 cylinder.....	do.....	322	1,049		
	No. 2.....	do.....	1,102	3,076	1,296	4,122
	No. 2 tall.....	do.....	173	566	1,798	5,761
	No. 5.....	do.....	26	357	(D)	(D)
	No. 10.....	do.....	301	2,764	90	1,105
	Miscellaneous tin.....	do.....	221	811		
	Miscellaneous glass.....	do.....	205	947	582	1,489
2033213	Beans, fresh lima.....		xxx	15,575	xxx	9,283
	Tin:					
	8 oz.....	Thousand dozen...	426	574		
	8 Z tall.....	do.....	1,125	1,448	(D)	(D)
	No. 303.....	do.....	5,315	10,065		
	No. 303 cylinder.....	do.....	264	517		
	No. 2.....	do.....	(D)	(D)	3,150	6,699
	No. 1 1/2.....	do.....	236	2,194	85	899
	Miscellaneous tin.....	do.....	452	777	806	1,725
2033215	Beans, green and wax.....		xxx	92,763	xxx	40,714
	Tin:					
	8 oz.....	Thousand dozen...	3,161	3,634		
	8 Z tall.....	do.....	3,272	3,907		
	No. 1 picnic.....	do.....	475	610	(D)	(D)
	No. 303.....	do.....	532,553	553,197		
	No. 303 cylinder.....	do.....	1,691	2,701		
	No. 2.....	do.....	525	1,095	17,068	26,127
	No. 2 tall.....	do.....	(D)	(D)	1,420	2,674
	No. 2 1/2.....	do.....	1,390	3,185	918	1,499
	No. 10.....	do.....	3,006	20,150	1,347	8,927
	Miscellaneous tin.....	do.....	971	1,802		
	Miscellaneous glass.....	do.....	184	705	794	1,487
	Container not specified.....	do.....	xxx	1,777	xxx	xxx
2033217	Beets.....		xxx	19,279	xxx	7,683
	Tin:					
	8 oz.....	Thousand dozen...	1,169	1,057		
	8 Z tall.....	do.....	1,123	1,112	(D)	(D)
	No. 303.....	do.....	7,409	8,934		
	No. 303 cylinder.....	do.....	271	278		
	No. 2.....	do.....	(D)	(D)	3,448	3,765
	No. 10.....	do.....	690	3,425	389	1,725
	Glass:					
	16 oz.....	do.....	1,495	2,371	(D)	(D)
	No. 303.....	do.....	1,048	1,356	1,152	1,493
	Miscellaneous tin.....	do.....	334	415		
	Miscellaneous glass.....	do.....	352	331	654	700
2033221	Carrots.....		xxx	5,666	xxx	2,166
	Tin:					
	8 oz.....	Thousand dozen...	276	286	(D)	(D)
	8 Z tall.....	do.....	216	230	(D)	(D)
	No. 303.....	do.....	1,730	2,043	(D)	(D)
	No. 2.....	do.....	(NA)	(NA)	742	832
	No. 10.....	do.....	419	2,570	256	1,115
	Miscellaneous tin.....	do.....	398	316		
	Miscellaneous glass.....	do.....	169	221	216	219
2033233	Corn, sweet.....		xxx	104,162	xxx	87,732
	Tin:					
	8 oz.....	Thousand dozen...	3,274	3,025	(D)	(D)
	8 Z tall and 8 Z short.....	do.....	11,382	10,515	(D)	(D)
	No. 1 picnic.....	do.....	553	590	1,940	1,999
	12 oz. and 12 oz. vacuum.....	do.....	15,585	22,300	10,186	15,999
	No. 300 and 303.....	do.....	42,081	56,079	4,536	6,579
	No. 303 cylinder.....	do.....	746	1,151	(D)	(D)
	38 oz. corn on the cob.....	do.....	365	1,091	(D)	(D)
	No. 2.....	do.....	(D)	(D)	35,143	52,501
	No. 10.....	do.....	1,022	7,055	995	5,749
	Miscellaneous tin and glass.....	do.....	53	768	3,876	4,905

See footnotes at end of table.



## CANNING, PRESERVING, AND FREEZING

20C-19

Table 6A.—QUANTITY AND VALUE OF PRODUCTS PRODUCED BY ALL MANUFACTURING ESTABLISHMENTS, FOR THE UNITED STATES: 1954 AND 1947—Continued

Product code	Product	Unit of quantity	Total production			
			1954		1947	
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
2033--- 20332 2033235	Canned fruits and vegetables—Continued Canned seasonal vegetables—Continued Mixed vegetables, succotash, carrots and peas, vegetable salad and other combinations.....		xxx	13,928	xxx	9,649
	Tin:					
	8 oz.....	Thousand dozen..	1,548	1,512		
	8 Z tall.....	..do.....	1,522	1,500	(D)	(D)
	No. 1 picnic.....	..do.....	289	305		
	303.....	..do.....	5,536	8,295	3,430	3,488
	No. 2.....	..do.....	(D)	(D)	3,200	4,588
	No. 10.....	..do.....	190	1,260	(D)	(D)
	Miscellaneous tin and glass.....	..do.....	676	1,056	1,022	1,573
2033237	Peas, fresh green and English.....		xxx	87,594	xxx	102,631
	Tin:					
	8 oz.....	Thousand dozen..	3,289	3,436	(D)	(D)
	8 Z short and 8 Z tall.....	..do.....	11,631	13,253	(D)	(D)
	No. 1 picnic.....	..do.....	1,281	1,537	5,080	5,223
	303.....	..do.....	534,593	555,960	17,408	26,405
	303 cylinder.....	..do.....	485	857	(D)	(D)
	No. 2.....	..do.....	206	366	36,670	52,364
	No. 10.....	..do.....	1,423	9,876	1,256	7,861
	Miscellaneous tin and glass.....	..do.....	1,019	1,563	8,156	10,778
	Container not specified.....		xxx	746	xxx	xxx
2033251	Peas, other (cowpeas, blackeye, crowder, etc.).....		xxx	7,649	xxx	(NA)
	Tin:					
	8 oz.....	Thousand dozen..	266	317		
	No. 300.....	..do.....	1,904	2,811		
	No. 303.....	..do.....	1,604	2,264		
	No. 300 cylinder.....	..do.....	338	399		
	No. 2.....	..do.....	442	512	xxx	(NA)
	No. 10.....	..do.....	127	824		
	Miscellaneous tin.....	..do.....	190	236		
	Container not specified.....		xxx	286		
2033253	Pumpkin and squash.....		xxx	4,244	xxx	6,890
	Tin:					
	300.....	Thousand dozen..	277	262	(D)	(D)
	303.....	..do.....	628	705	(D)	(D)
	No. 2.....	..do.....	(D)	(D)	494	520
	No. 2 1/2.....	..do.....	1,553	2,153	3,660	4,418
	No. 10.....	..do.....	130	711	371	1,666
	Miscellaneous tin.....	..do.....	295	413	238	286
2033255	Spinach.....		xxx	10,776	xxx	7,923
	Tin:					
	8 oz.....	Thousand dozen..	504	419	(D)	(D)
	No. 1 picnic.....	..do.....	632	581	(D)	(D)
	303.....	..do.....	4,015	4,567	(D)	(D)
	No. 2 tall.....	..do.....	(D)	(D)	1,264	1,591
	No. 2.....	..do.....	359	533	2,190	2,412
	No. 2 1/2.....	..do.....	1,289	1,983	1,318	1,881
	No. 10.....	..do.....	340	1,518	358	1,715
	Miscellaneous tin and glass.....	..do.....	920	1,175	228	324
2033271	Tomatoes (whole, plain packed and canned with puree and juice)....		xxx	67,914	xxx	71,659
	Tin:					
	8 oz.....	Thousand dozen..	680	579	(D)	(D)
	No. 1 picnic.....	..do.....	2,256	2,019	2,400	2,087
	No. 1 tall.....	..do.....	709	721	660	525
	No. 303.....	..do.....	513,894	521,992	(D)	(D)
	No. 2.....	..do.....	2,118	4,201	26,408	34,308
	No. 303 cylinder.....	..do.....	1,390	2,346	(D)	(D)
	No. 2 tall.....	..do.....	(D)	(D)	994	1,854
	No. 2 1/2.....	..do.....	55,770	512,721	10,300	20,364
	No. 10.....	..do.....	2,999	13,508	1,692	11,288
	Miscellaneous tin.....	..do.....	(D)	3,339		
	Miscellaneous glass.....	..do.....	(D)	92	526	733
	Container not specified.....		xxx	6,346	xxx	xxx

See footnotes at end of table.

Table 6A.—QUANTITY AND VALUE OF PRODUCTS PRODUCED BY ALL MANUFACTURING ESTABLISHMENTS, FOR THE UNITED STATES: 1954 AND 1947—Continued

Product code	Product	Unit of quantity	Total production			
			1954		1947	
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
2033---	Canned fruits and vegetables—Continued					
20332	Canned seasonal vegetables—Continued					
2033298	Other canned seasonal vegetables.....		xxx	18,774	xxx	4,587
	Tin:					
	5 Z.....	Thousand dozen...	759	1,002	(D)	(D)
	8 oz.....	.....do.....	644	944		
	300.....	.....do.....	644	711		
	303.....	.....do.....	6,227	7,985		
	No. 2.....	.....do.....	429	549	1,538	2,077
	No. 2 1/2.....	.....do.....	504	1,108		
	No. 10.....	.....do.....	431	2,528		
	Glass:				(D)	(D)
	16 oz.....	.....do.....	386	650		
	Miscellaneous tin.....	.....do.....	577	1,968	320	814
	Miscellaneous glass.....	.....do.....	(D)	222		
	Container not specified.....	.....do.....	xxx	1,107		
2033200	Canned seasonal vegetables, not specified by kind.....		xxx	14,136	xxx	xxx
20333	Canned nonseasonal vegetables and specialties.....		xxx	307,349	xxx	235,657
2033311	Beans with pork or sauce including baked.....		xxx	98,319	xxx	90,591
	Tin:					
	8 Z short.....	Thousand dozen...	3,751	3,198	(D)	(D)
	8 oz. and 9 oz.....	.....do.....	335	273	(D)	(D)
	No. 1 picnic.....	.....do.....	3,165	2,719	4,608	4,577
	11 oz.....	.....do.....	934	1,319	(D)	(D)
	300.....	.....do.....	30,725	36,875	30,990	37,887
	303.....	.....do.....	1,046	1,583	3,278	4,136
	300 cylinder.....	.....do.....	425	695	(D)	(D)
	No. 2.....	.....do.....	5,927	9,493	16,646	24,078
	Jumbo and 307.....	.....do.....	1,714	3,543	(D)	(D)
	No. 2 1/2.....	.....do.....	7,921	15,697	3,250	6,268
	No. 3 cylinder.....	.....do.....	162	575	(D)	(D)
	No. 10.....	.....do.....	425	2,569	313	2,125
	Glass:					
	No. 303.....	.....do.....	(D)	(D)	1,800	2,833
	Miscellaneous tin.....	.....do.....	9,799	14,872	4,172	8,687
	Miscellaneous glass.....	.....do.....	2,017	4,402		
	Container not specified.....	.....do.....	xxx	506		
2033313	Beans, other dry varieties, except soy.....		xxx	32,806	xxx	25,747
	Tin:					
	8 oz. short.....	Thousand dozen...	485	569	(D)	(D)
	No. 1 picnic.....	.....do.....	(D)	(D)	1,968	2,731
	300.....	.....do.....	10,605	11,745	2,748	3,313
	303.....	.....do.....	6,725	7,368	1,594	2,232
	No. 2.....	.....do.....	3,913	4,949	10,818	14,102
	No. 2 1/2.....	.....do.....	574	1,126	(D)	(D)
	No. 10.....	.....do.....	396	2,246	218	1,570
	Miscellaneous tin.....	.....do.....	3,022	3,696	508	787
	Container not specified.....	.....do.....	xxx	1,107	xxx	1,012
2033315	Hominy.....		xxx	4,515	xxx	7,099
	Tin:					
	300.....	Thousand dozen...	1,242	946	(D)	(D)
	303.....	.....do.....	885	717	(D)	(D)
	No. 2.....	.....do.....	1,305	1,202	3,548	3,129
	No. 2 1/2.....	.....do.....	908	1,168	3,778	2,986
	Miscellaneous tin and glass.....	.....do.....	228	482	1,160	984
2033317	Mushrooms.....		xxx	19,935	xxx	7,911
	Tin:					
	2 Z mushroom.....	Thousand dozen...	1,777	2,370	830	1,175
	4 Z mushroom.....	.....do.....	3,680	8,212	3,424	4,379
	8 Z mushroom.....	.....do.....	784	3,374	268	1,124
	Miscellaneous tin.....	.....do.....	1,266	5,735	122	1,233
	Container not specified.....	.....do.....	xxx	244	xxx	xxx
2033321	Pimientos.....		xxx	7,674	xxx	4,611
	Tin:					
	No. 4 Z pimiento.....	Thousand dozen...	659	1,217	3,860	2,240
	No. 5 Z pimiento.....	.....do.....	1,713	2,339	(D)	(D)
	No. 7 Z pimiento.....	.....do.....	479	969	574	785
	No. 2 1/2.....	.....do.....	102	701	140	711
	Miscellaneous tin.....	.....do.....	778	1,686	88	335
	Miscellaneous glass.....	.....do.....	352	762	96	540

See footnotes at end of table.

## CANNING, PRESERVING, AND FREEZING

20C-21

Table 6A.—QUANTITY AND VALUE OF PRODUCTS PRODUCED BY ALL MANUFACTURING ESTABLISHMENTS, FOR THE UNITED STATES: 1954 AND 1947—Continued

Product code	Product	Unit of quantity	Total production			
			1954		1947	
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
2033---	Canned fruits and vegetables—Continued					
20333	Canned nonseasonal vegetables and specialties—Continued					
2033331	Spaghetti with meat.....		xxx	9,350	xxx	
	Tin:					
	300.....	Thousand dozen...	1,641	6,411	12,570	
	Miscellaneous tin.....	...do.....	762	2,939		
2033333	Spaghetti without meat.....		xxx	23,518	xxx	21,058
	Tin:					
	300.....	Thousand dozen...	9,453	17,235	12,570	
	Miscellaneous tin.....	...do.....	4,271	6,283		
2033335	Sweet potatoes.....		xxx	11,887	xxx	3,485
	Tin:					
	8 Z tall.....	Thousand dozen...	353	409	(D)	(D)
	No. 2 vacuum and No. 2 squat.....	...do.....	507	1,010		
	No. 303.....	...do.....	1,025	1,712	528	1,969
	No. 2.....	...do.....	294	528		
	No. 3 vacuum.....	...do.....	1,893	3,975	1,316	1,002
	No. 2 1/2.....	...do.....	749	1,728	682	(D)
	No. 10.....	...do.....	238	1,303	(D)	(D)
	Miscellaneous tin.....	...do.....	890	1,222	476	514
2033351	Tomato paste.....		xxx	30,622	xxx	39,229
	Tin:					
	6 Z.....	Thousand dozen...	18,482	16,280	25,560	22,713
	6 1/4 oz.....	...do.....	1,524	1,236		
	7 oz.....	...do.....	626	672	(D)	(D)
	No. 2 1/2.....	...do.....	(D)	(D)	212	531
	No. 10.....	...do.....	1,278	11,831	1,241	14,126
	Miscellaneous tin.....	...do.....	446	603	610	1,859
2033353	Tomato pulp and puree (for sale as such).....		xxx	11,130	xxx	12,802
	Tin:					
	No. 1 picnic.....	Thousand dozen...	1,276	1,211	1,852	1,429
	No. 2 1/2.....	...do.....	1,414	2,880	(D)	(D)
	No. 10.....	...do.....	692	4,370	1,477	8,938
	5 gallon.....	...do.....	(D)	(D)	33	1,015
	Miscellaneous tin and glass.....	...do.....	1,625	2,669	878	1,420
2033355	Sauerkraut.....		xxx	15,953	xxx	8,705
	Tin:					
	300.....	Thousand dozen...	1,100	1,070	(D)	(D)
	303.....	...do.....	3,173	3,401	(D)	(D)
	No. 2.....	...do.....	1,055	1,199	2,256	2,169
	No. 2 1/2.....	...do.....	4,202	6,099	5,432	5,710
	No. 10.....	...do.....	269	1,108	185	635
	Miscellaneous tin.....	...do.....	986	999	198	191
	Miscellaneous glass.....	...do.....	504	879		
	Container not specified.....	...do.....	xxx	1,198	xxx	xxx
2033361	Canned Chinese food (Chow mein, chop suey, etc.).....		xxx	10,862	xxx	(NA)
	Tin:					
	303.....	Thousand dozen...	2,825	6,702	(NA)	(NA)
	No. 3 cylinder and No. 10.....	...do.....	293	2,416	(NA)	(NA)
	Miscellaneous tin.....	...do.....	421	1,189	(NA)	(NA)
	Container not specified.....	...do.....	xxx	555	(NA)	(NA)
2033398	Other canned nonseasonal vegetables.....		xxx	30,778	xxx	14,419
	Tin:					
	300.....	Thousand dozen...	7,646	12,627	2,522	2,996
	303.....	...do.....	1,538	2,005	(D)	(D)
	No. 2.....	...do.....	449	803	5,512	7,033
	No. 10.....	...do.....	249	1,759	272	1,766
	Glass:					
	303.....	...do.....	(D)	(D)	304	552
	Miscellaneous tin.....	...do.....	930	2,592	978	2,072
	Miscellaneous glass.....	...do.....	780	1,856		
	Container not specified.....	...do.....	xxx	9,136	xxx	xxx

See footnotes at end of table.



## MANUFACTURES--INDUSTRY STATISTICS

Table 6A.--QUANTITY AND VALUE OF PRODUCTS PRODUCED BY ALL MANUFACTURING ESTABLISHMENTS, FOR THE UNITED STATES: 1954 AND 1947--Continued

Product code	Product	Unit of quantity	Total production			
			1954		1947	
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
2033--	Canned fruits and vegetables--Continued					
20334	Canned fruit juices - canned single strength juices, not frozen.....		xxx	167,206	xxx	108,198
2033411	Apple juice.....		xxx	7,801	xxx	4,440
	Tin:					
	No. 3 cylinder.....	Thousand dozen...	5750	52,110	(D)	(D)
	Glass:					
	Quart.....	do.....	51,307	53,010	2,008	3,037
	Miscellaneous tin.....	do.....	1,074	1,145	892	773
	Miscellaneous glass.....	do.....	582	1,536	618	630
2033421	Grape juice.....		xxx	24,774	xxx	18,797
	Tin:					
	No. 3.....	Thousand dozen...	158	878	(D)	(D)
	5 gallon.....	do.....	(NA)	1,165	38	1,564
	Glass:					
	12 oz.....	do.....	802	1,761	(D)	(D)
	24 oz.....	do.....	3,180	10,688	(D)	(D)
	1 pint.....	do.....	(D)	(D)	3,020	6,950
	1 quart.....	do.....	(D)	(D)	2,054	8,893
	Full gallon.....	do.....	455	5,261	(D)	(D)
	Miscellaneous tin.....	do.....	839	1,416	822	1,390
	Miscellaneous glass.....	do.....	1,982	2,364		
	Container not specified.....	xxx	1,241	xxx	xxx	xxx
2033431	Grapefruit juice.....		xxx	21,803	xxx	20,049
	Tin:					
	1/4 oz.....	Thousand dozen...	2,171	1,077	(D)	(D)
	No. 2.....	do.....	53,804	53,265	9,442	6,671
	No. 3 cylinder.....	do.....	57,218	512,329	8,285	12,688
	Miscellaneous tin.....	do.....	5,976	4,911	880	690
	Container not specified.....	xxx	221	xxx	xxx	xxx
2033441	Orange juice.....		xxx	42,677	xxx	30,636
	Tin:					
	5 Z and 6 Z.....	Thousand dozen...	6,831	3,337	(D)	(D)
	7 oz.....	do.....	1,252	590	(D)	(D)
	16 oz. pimiento and 300 cylinder.....	do.....	1,597	1,876	(D)	(D)
	No. 2.....	do.....	4,924	5,824	20,350	9,045
	No. 3 cylinder.....	do.....	58,711	520,996	10,579	19,879
	Glass:					
	No. 10.....	do.....	51,185	53,114	(D)	(D)
	1 quart miscellaneous glass.....	do.....	1,214	483	(D)	(D)
	1/2 gallon.....	do.....	720	2,240	(D)	(D)
	Miscellaneous tin.....	do.....	3,996	4,175	1,482	1,712
	Container not specified.....	xxx	242	xxx	xxx	xxx
2033451	Orange and grapefruit juices, blended.....		xxx	10,532	xxx	14,312
	Tin:					
	No. 2.....	Thousand dozen...	1,560	1,503	6,136	5,357
	No. 3 cylinder.....	do.....	53,191	56,680	4,848	8,447
	Miscellaneous tin.....	do.....	1,211	1,709	740	508
	Miscellaneous glass.....	do.....	xxx	640		
2033461	Prune juice.....		xxx	23,027	xxx	7,845
	Tin:					
	12 oz.....	Thousand dozen...	984	1,293	(D)	(D)
	Glass:					
	24 oz.....	do.....	295	670		
	1 quart.....	do.....	6,322	19,326	3,210	7,151
	Miscellaneous tin and glass.....	do.....	711	946	532	694
	Container not specified.....	xxx	792	xxx	(NA)	(NA)

See footnotes at end of table.

## CANNING, PRESERVING, AND FREEZING

20C-23

Table 6A.—QUANTITY AND VALUE OF PRODUCTS PRODUCED BY ALL MANUFACTURING ESTABLISHMENTS, FOR THE UNITED STATES: 1954 AND 1947—Continued

Product code	Product	Unit of quantity	Total production			
			1954		1947	
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
2033--- 20334	Canned fruits and vegetables—Continued Canned fruit juices - canned single strength juices, not frozen					
2033498	—Continued Other fruit and berry juices and nectars.....		xxx	36,592	xxx	12,119
	Tin:					
	5 1/2 oz.....	Thousand dozen..	2,861	2,157		
	6 Z and 6 1/4 oz.....	do.....	4,336	3,085		
	8 oz.....	do.....	241	699	D)	D
	8 Z tall.....	do.....	1,261	927		
	12 oz.....	do.....	3,205	3,596		
	No. 211 cylinder.....	do.....	4,786	4,580		
	No. 2.....	do.....	(D)	(D)		
	No. 3 cylinder.....	do.....	2,019	5,522		
	No. 10.....	do.....				
	Full gallon.....	do.....	163	2,561	D)	(D)
	5 gallon.....	do.....	(NA)	1,673	D)	D)
	Miscellaneous tin.....	Thousand dozen..	2,260	3,822		
	Miscellaneous glass.....	do.....	616	1,588	1,856	2,131
	Container not specified.....		xxx	6,382	xxx	1,207
20335	Canned vegetable juices.....		xxx	64,522	xxx	39,147
2033511	Tomato juice and vegetable juice combinations containing at least 70% tomato juice.....		xxx	62,698	xxx	38,710
	Tin:					
	5 1/2 oz.....	Thousand dozen..	5,951	5,093	(D)	(D)
	6 Z.....	do.....	5,202	5,723	1,124	502
	8 Z tall.....	do.....	2,860	5,912	1,564	911
	12 oz. and 211 cylinder.....	do.....	5,825	6,618	772	639
	No. 1 picnic.....	do.....	(D)	(D)	1,408	1,200
	No. 300.....	do.....	2,085	1,949	3,384	2,888
	No. 303.....	do.....	904	1,052	(NA)	(NA)
	No. 2.....	do.....	6,158	7,386	9,184	9,173
	No. 2 tall.....	do.....	(NA)	(NA)	800	939
	303 cylinder and jumbo (also - 307).....	do.....	1,122	1,665	(NA)	(NA)
	No. 3.....	do.....	54,873	511,793	(NA)	(NA)
	No. 3 cylinder.....	do.....	58,470	522,754	6,537	14,438
	No. 10.....	do.....	221	997	687	2,533
	Miscellaneous tin.....	do.....	3,421	2,635	4,270	3,968
	Miscellaneous glass.....	do.....	271	706	1,126	1,549
	Container not specified.....		xxx	415	(NA)	(NA)
2033598	Other vegetable juices.....	Thousand dozen..	991	1,824	382	437
20336	Canned baby foods.....	do.....	(NA)	148,746	85,254	71,104
2033611	Fruits (include strained and chopped).....	do.....	(NA)	(NA)	34,644	27,046
2033631	Vegetables (include strained and chopped).....	do.....	(NA)	(NA)	21,804	16,542
2033651	Desserts (include strained and chopped).....	do.....	(NA)	(NA)	7,197	5,292
2033698	Other baby foods (include strained and chopped).....	do.....	(NA)	(NA)	21,609	22,224
2033600	Canned baby foods, not specified by kind.....	do.....	(NA)	(NA)	xxx	xxx
20337	Canned soups and poultry products.....	Thousand dozen..	180,446	293,055	166,936	210,468
2033711	Canned poultry, boned and unboned.....		(D)	(D)	(D)	(D)
2033751	Soups (except clam chowder).....		(D)	(D)	(D)	(D)
20338	Jams, jellies and preserves.....		xxx	159,956	xxx	152,636
	Jams and preserves, pure:					
2033811	Strawberry.....	Thousand pounds..	90,323	26,674	328,372	75,826
2033815	Other.....	do.....	159,278	39,856		
	Jellies, pure:					
2033821	Grape.....	do.....	65,180	15,006	154,146	36,978
2033825	Other.....	do.....	101,199	23,834		
2033831	Jellies, imitation.....	do.....	33,863	5,057	38,088	4,214
2033841	Marmalades, citrus, pure.....	do.....	12,073	3,006	42,475	6,470
2033851	Fruit butter.....	do.....	48,539	5,987	105,974	10,172
2033861	Maraschino cherries.....	Thousand gallons.	8,514	12,773	5,073	15,835
2033898	Jams, jellies and preserves, not specified by kind.....	do.....	xxx	27,763	xxx	4,841
2033000	Canned and preserved products, not specified by kind.....		xxx	17,627	xxx	15,571
2034011	Dried and dehydrated fruits and vegetables and soup mix <sup>3</sup> .....		xxx	185,497	xxx	52,257

See footnotes at end of table.

Table 6A.—QUANTITY AND VALUE OF PRODUCTS PRODUCED BY ALL MANUFACTURING ESTABLISHMENTS, FOR THE UNITED STATES: 1954 AND 1947—Continued

Product code	Product	Unit of quantity	Total production			
			1954		1947	
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
2035---	Pickles and sauces.....	.....	xxx	516,716	xxx	432,511
20351	Catsup and other tomato sauces.....	.....	xxx	113,958	xxx	94,945
2035111	Tomato sauces, not including pulp, puree, and paste.....	.....	xxx	40,944	xxx	16,478
	Tin:					
	6 oz.-8 oz.....	Thousand dozen...	3,859	4,227	7,028	8,388
	8 Z short, 8Z tall (and No. 55).....	.....do.....	38,997	28,418	10,140	6,141
	No. 1 picnic.....	.....do.....	1,172	2,444	(D)	(D)
	No. 10.....	.....do.....	284	1,859	69	526
	Glass:					
	10-12 oz.....	.....do.....	(NA)	(NA)	226	526
	Miscellaneous tin.....	.....do.....	1,227	1,881	242	401
	Miscellaneous glass.....	.....do.....	654	1,572	176	496
	Container not specified.....	.....	xxx	543	xxx	xxx
2035131	Catsup.....	.....	xxx	62,943	xxx	69,996
	Tin:					
	No. 10.....	Thousand dozen...	899	8,106	1,018	9,197
	Glass:					
	12 oz.....	.....do.....	3,285	4,674	34,698	59,093
	14 oz.....	.....do.....	30,142	49,675		
	Miscellaneous tin.....	.....do.....	(D)	137	182	396
	Miscellaneous glass.....	.....do.....	(D)	65	592	1,310
	Container not specified.....	.....	xxx	286	xxx	xxx
2035151	Chili sauce.....	.....	xxx	7,218	xxx	8,471
	Tin:					
	No. 10.....	Thousand dozen...	326	1,252	113	1,359
	Glass:					
	8 oz.....	.....do.....	407	639	(D)	(D)
	12 oz.....	.....do.....	2,236	4,766	3,162	6,595
	Miscellaneous tin.....	.....do.....	120	247	138	517
	Miscellaneous glass.....	.....do.....	102	257		
	Container not specified.....	.....	xxx	57	xxx	xxx
2035100	Catsup and other tomato sauces, not specified by kind.....	.....	xxx	2,853	xxx	xxx
20352	Pickles and pickle products.....	.....	xxx	135,598	xxx	88,912
	Pickles, cucumber:					
2035211	Dill.....	Thousand gallons.	35,987	30,227	21,422	18,140
2035213	Sour.....	.....do.....	10,183	6,439	6,318	5,124
2035215	Sweet.....	.....do.....	29,568	37,827	17,188	27,238
2035217	Fresh pack.....	.....do.....	25,884	25,668	11,596	11,354
2035231	Pickle products (including sour mixed, sweet relish, sour relish piccalilli, chow chow, vegetable relish, etc.).....	.....do.....	22,995	27,222	18,907	16,795
2035251	Pickles, other than cucumber or mixed pickles.....	.....do.....	2,894	3,180	6,551	4,358
2035261	Olives, green, bulk.....	.....do.....	3,884	5,035	1,833	3,598
2035200	Pickles and pickle products, not specified by kind.....	.....	xxx	xxx	xxx	2,305
20353	Mustard and other meat sauces, except tomato sauces.....	.....	xxx	46,698	xxx	21,858
2035311	Mustard, prepared.....	Thousand gallons.	20,070	19,925	16,149	12,327
2035351	Sauces for meat, other than tomato (Worcestershire, etc.).....	.....do.....	8,134	22,852	4,197	9,531
2035300	Mustard and other meat sauces, not specified by kind.....	.....	xxx	3,921	xxx	xxx
20354	Salad dressings, including mayonnaise.....	.....	xxx	201,697	xxx	201,990
	Salad dressing, mayonnaise type:					
2035411	In containers of 1 gallon or over.....	Thousand gallons.	9,802	17,273	39,262	80,335
2035415	In containers of less than 1 gallon.....	.....do.....	41,035	59,758		
	Mayonnaise:					
2035421	In containers of 1 gallon or over.....	.....do.....	7,353	13,071	33,319	93,246
2035425	In containers of less than 1 gallon.....	.....do.....	39,679	79,405		
2035431	French dressing.....	.....do.....	7,218	12,425	3,652	8,761
2035441	Other (Thousand Island, Russian dressing, tartar sauce, etc.).....	.....do.....	2,347	5,144	881	1,759
2035451	Sandwich spread (mayonnaise or salad dressing base).....	.....do.....	7,569	14,621	6,979	17,258
2035400	Salad dressing, not specified by kind.....	.....	xxx	xxx	xxx	631
2035511	Unfinished pickles (salt stock).....	Thousand gallons.	18,756	10,205	xxx	24,806
2035000	Pickles and sauces, kind not specified.....	.....	xxx	8,560		

See footnotes at end of table.



## CANNING, PRESERVING, AND FREEZING

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Table 6A.--QUANTITY AND VALUE OF PRODUCTS PRODUCED BY ALL MANUFACTURING ESTABLISHMENTS, FOR THE UNITED STATES: 1954 AND 1947--Continued

Product code	Product	Unit of quantity	Total production			
			1954		1947	
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
2036----	Packaged seafood (fresh and frozen).....	.....	xxx	158,049	xxx	30,852
2036111	Frozen seafood (fish, shrimp, oysters, etc.).....	Thousand pounds..	242,630	103,951	115,464	30,852
2036211	Fresh packaged seafood (fillets, steaks, shucked oysters, etc., not frozen).....	.....do.....	188,586	53,552	(NA)	(NA)
2036000	Packaged seafood, not specified by kind.....	.....do.....	xxx	546	(NA)	(NA)
2037----	Frozen fruits and vegetables.....	.....	xxx	431,252	xxx	128,235
20371	Frozen fruits and juices <sup>4</sup> .....	.....	xxx	256,481	xxx	55,467
	Frozen fruits and berries, including purees:					
2037111	Apples.....	Thousand pounds..	48,047	7,492	26,536	2,654
2037121	Apricots.....	do.....	4,953	878	(NA)	(NA)
2037131	Blackberries and dewberries.....	do.....	8,854	1,470	15,627	2,353
2037132	Blueberries.....	do.....	8,378	2,346	(NA)	(NA)
2037134	Raspberries, red.....	do.....	20,849	5,383	21,594	4,730
2037135	Strawberries.....	do.....	156,654	41,864	83,987	22,725
2037139	Other berries.....	do.....	7,483	1,873	21,882	4,062
2037141	Cherries, red sour.....	do.....	50,832	8,806	55,178	8,694
2037151	Peaches.....	do.....	29,067	4,885	26,969	3,360
2037165	Other fruit.....	do.....	37,038	4,803	38,905	4,343
	Frozen fruit and berry juices, concentrated:					
2037171	Orange.....	do.....	614,387	127,842	6,917	1,933
2037173	Grapefruit.....	do.....	16,818	2,581		
2037174	Orange and grapefruit.....	do.....	9,632	1,973		
2037176	Lemonade.....	do.....	104,928	17,952		
2037177	Orangeade.....	do.....	2,395	442		
2037178	Grape juice.....	do.....	35,222	13,245	xxx	613
2037179	Other fruit and berry juices.....	do.....	19,597	7,019		
2037100	Frozen fruits and juices, not specified by kind.....	.....do.....	xxx	5,627		
20372	Frozen vegetables.....	.....	xxx	168,149	xxx	68,932
2037211	Asparagus.....	Thousand pounds..	31,161	12,004	9,886	3,061
2037215	Beans, green and wax, all styles.....	do.....	120,094	24,542	30,872	6,238
2037221	Beans, fresh lima.....	do.....	123,038	26,811	67,555	16,873
2037225	Broccoli.....	do.....	66,591	14,374	10,280	2,405
2037231	Brussels sprouts.....	do.....	35,893	8,970	6,730	1,967
2037235	Cauliflower.....	do.....	18,044	3,960	5,777	1,488
2037241	Peas, fresh green.....	do.....	196,699	30,627	132,054	23,177
2037245	Spinach.....	do.....	64,944	8,954	19,628	2,892
2037251	Sweet corn, cut.....	do.....	81,912	12,041	35,846	5,353
2037298	Other vegetables.....	do.....	137,516	21,653	34,581	5,251
2037200	Frozen vegetables, n.e.c.....	.....do.....	xxx	4,213	xxx	227
2037000	Frozen fruits and vegetables, not specified by kind.....	.....	xxx	6,622	xxx	3,836

xxx Not applicable.

NA Not available.

D Withheld to avoid disclosure of figures for individual companies. Where a (D) appears for a particular can size, the value is included in the "Miscellaneous tin or glass" category for the product.

<sup>1</sup>Data from Fish and Wildlife Service, Department of the Interior. The total value differs slightly from the corresponding Census of Manufactures figures shown in Tables 5A and 5B, owing to differences in coverage, between the Fish and Wildlife Service survey and the Census of Manufactures.

<sup>2</sup>No. 2 1/2 glass combined with No. 2 1/2 tin.

<sup>3</sup>No detailed statistics were collected for this category owing to the fact that a large part of the total commercial output is packed in establishments classified in Wholesale Trade (S.I.C. 5049) and included in the Census of Business. See Introductory Text for Industry 2034.

<sup>4</sup>Not including products frozen on farms. Comparison with data published by the National Association of Frozen Food Packers indicates that farm production was of some importance for frozen fruits and vegetables but negligible for juices.

<sup>5</sup>Figures are subject to revision after further review. Revisions to this table will be issued as a supplementary report.

## MANUFACTURES—INDUSTRY STATISTICS

Table 6B.—VALUE OF PRODUCT CLASSES SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, BY DIVISIONS AND STATES FOR 1954, AND UNITED STATES TOTALS FOR EARLIER YEARS

(In thousands of dollars. Statistics are shown for selected product classes which are economically significant and production of which is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (Table 2) and they are not miscellaneous or "not specified by type" classes. For each product class, States are listed only if the value of shipments is more than \$1 million and the figure does not disclose individual company information. Additional States which had shipments of more than \$1 million of the individual product classes are listed in footnote 1.)

Product class, region, and State <sup>1</sup>	Value of shipments	Product class, region, and State <sup>1</sup>	Value of shipments	Product class, region, and State <sup>1</sup>	Value of shipments
<b>Canned fruits (20331)</b>		<b>Canned seasonal vegetables (20332)—</b>		<b>Canned nonseasonal vegetables and specialties (20333)—Continued</b>	
1954 United States, total.....	453,170	Continued			
1953 United States, total.....	457,106	West North Central.....	46,949	East South Central.....	11,316
1952 United States, total.....	447,705	Minnesota.....	38,324	Tennessee.....	9,272
1951 United States, total.....	467,563	Iowa.....	8,302		
1950 United States, total.....	417,139	South Atlantic.....	59,044	West South Central.....	19,492
1947 United States, total.....	368,636	Delaware.....	7,897	Arkansas.....	2,837
1954		Maryland.....	35,068	Louisiana.....	4,071
New England.....	12,846	Virginia.....	4,408	Oklahoma.....	1,438
Maine.....	2,636	Georgia.....	3,190	Texas.....	11,166
		Florida.....	7,684		
Middle Atlantic.....	57,775	East South Central.....	11,934	Mountain.....	2,443
New York.....	37,220	Tennessee.....	7,845	Colorado.....	1,206
New Jersey.....	7,357	Mississippi.....	1,161		
Pennsylvania.....	13,198	West South Central.....	32,037	Pacific.....	58,438
East North Central.....	43,084	Arkansas.....	10,619	Washington.....	2,187
Ohio.....	5,322	Louisiana.....	1,396	Oregon.....	2,048
Illinois.....	7,975	Oklahoma.....	2,627	California.....	54,202
Michigan.....	25,358	Texas.....	17,394		
Wisconsin.....	4,427	Mountain.....	16,636	<b>Canned fruit juices (20334)</b>	
South Atlantic.....	41,502	Idaho.....	6,477	1954 United States, total.....	167,206
Maryland.....	2,618	Colorado.....	3,164	1951 United States, total.....	174,705
Virginia.....	12,616	Utah.....	6,115	1950 United States, total.....	180,192
Georgia.....	1,245			1947 United States, total.....	108,198
Florida.....	18,482	Pacific.....	123,750	1954	
West South Central.....	3,850	Washington.....	23,832	New England.....	2,628
Texas.....	3,293	Oregon.....	30,947	Middle Atlantic.....	38,777
Mountain.....	2,450	California.....	68,971	New York.....	22,349
Utah.....	1,428	<b>Canned nonseasonal vegetables and specialties (20333)</b>		New Jersey.....	2,044
		1954 United States, total.....	307,349	Pennsylvania.....	14,384
Pacific.....	290,676	1947 United States, total.....	235,657	East North Central.....	13,853
Washington.....	33,686	1954		Illinois.....	5,327
Oregon.....	20,355	New England.....	13,835	Michigan.....	5,950
California.....	236,634	Middle Atlantic.....	86,082	South Atlantic.....	71,295
<b>Canned seasonal vegetables (20332)</b>		New York.....	18,171	Florida.....	70,413
1954 United States, total.....	500,876	New Jersey.....	32,702	West South Central.....	3,316
1947 United States, total.....	375,112	Pennsylvania.....	35,208	Mountain.....	360
1954		East North Central.....	75,239	Pacific.....	35,396
New England.....	3,521	Ohio.....	9,012	Washington.....	6,883
Maine.....	2,934	Indiana.....	32,051	California.....	27,653
Middle Atlantic.....	47,186	Illinois.....	27,686		
New York.....	28,434	Michigan.....	1,675	<b>Canned vegetable juices (20335)</b>	
New Jersey.....	5,917	Wisconsin.....	4,814	1954 United States, total.....	64,522
Pennsylvania.....	12,834	West North Central.....	15,771	1953 United States, total.....	79,105
East North Central.....	159,819	Minnesota.....	4,335	1952 United States, total.....	78,478
Ohio.....	8,735	Iowa.....	4,100	1951 United States, total.....	70,909
Indiana.....	14,079	South Atlantic.....	24,733	1950 United States, total.....	59,528
Illinois.....	37,207	Delaware.....	1,962	1947 United States, total.....	39,147
Michigan.....	11,089	Maryland.....	11,246	1954	
Wisconsin.....	88,708	Virginia.....	3,382	Middle Atlantic.....	9,824
		North Carolina.....	1,049	New York.....	1,303
		Georgia.....	6,386	New Jersey.....	6,505
				Pennsylvania.....	2,015

See footnotes at end of table.

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Table 6B.—VALUE OF PRODUCT CLASSES SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, BY DIVISIONS AND STATES FOR 1954, AND UNITED STATES TOTALS FOR EARLIER YEARS—Continued

Product class, region, and State <sup>1</sup>	Value of shipments	Product class, region, and State <sup>1</sup>	Value of shipments	Product class, region, and State <sup>1</sup>	Value of shipments
<u>Canned vegetable juices (20335)—Continued</u>		<u>Catsup and other tomato sauces (20351)—Continued</u>		<u>Pickles and other pickled products (20352)—Continued</u>	
East North Central.....	25,683	1950 United States, total.....	109,418	East South Central.....	6,833
Ohio.....	6,811	1947 United States, total.....	94,945	West South Central.....	8,489
Indiana.....	11,060			Mountain.....	2,324
Illinois.....	5,177	1945		Colorado.....	1,342
Michigan.....	2,434	New England.....	631	Pacific.....	20,803
Wisconsin.....	199	Middle Atlantic.....	24,825	Washington.....	2,357
South Atlantic.....	4,645	New York.....	6,394	Oregon.....	4,751
Maryland.....	2,208	New Jersey.....	10,634	California.....	13,694
Mountain.....	1,192	Pennsylvania.....	7,796	<u>Salad dressings, including mayonnaise (20354)</u>	
Pacific.....	22,622	East North Central.....	24,397	1954 United States, total.....	201,697
California.....	22,294	Ohio.....	12,268	1953 United States, total.....	197,937
<u>Jams, jellies, and preserves (20338)</u>		Indiana.....	9,103	1952 United States, total.....	184,643
1954 United States, total.....	159,956	Illinois.....	2,777	1951 United States, total.....	217,448
1947 United States, total.....	152,636	West North Central.....	1,367	1950 United States, total.....	175,060
1954		South Atlantic.....	1,374	1947 United States, total.....	201,990
New England.....	9,011	East South Central.....	439	1954	
Massachusetts.....	8,025	West South Central.....	1,504	New England.....	4,546
Middle Atlantic.....	45,219	Texas.....	1,455	Middle Atlantic.....	41,009
New York.....	25,689	Mountain.....	1,573	New York.....	10,900
New Jersey.....	6,107	Utah.....	1,005	New Jersey.....	28,498
Pennsylvania.....	13,422	Pacific.....	57,876	Pennsylvania.....	1,611
East North Central.....	44,653	California.....	57,876	East North Central.....	53,141
Ohio.....	14,822	<u>Pickles and other pickled products (20352)</u>		Ohio.....	4,578
Indiana.....	10,131	1954 United States, total.....	135,598	Indiana.....	8,707
Illinois.....	12,412	1953 United States, total.....	135,338	Illinois.....	36,973
West North Central.....	3,857	1952 United States, total.....	130,636	Michigan.....	1,819
Minnesota.....	1,650	1951 United States, total.....	136,247	Wisconsin.....	1,064
Missouri.....	1,374	1950 United States, total.....	114,441	West North Central.....	3,310
South Atlantic.....	10,236	1947 United States, total.....	88,912	Missouri.....	1,805
Maryland.....	2,686	1954		South Atlantic.....	28,748
Virginia.....	4,094	New England.....	4,595	Maryland.....	8,749
Florida.....	1,979	Massachusetts.....	3,463	Georgia.....	12,266
East South Central.....	7,895	Middle Atlantic.....	25,078	East South Central.....	6,292
Kentucky.....	2,970	New York.....	16,188	Kentucky.....	1,692
West South Central.....	11,720	New Jersey.....	2,650	Tennessee.....	2,618
Louisiana.....	6,528	Pennsylvania.....	6,239	Alabama.....	1,982
Oklahoma.....	2,684	East North Central.....	41,754	West South Central.....	22,071
Mountain.....	1,457	Ohio.....	6,420	Texas.....	16,679
Pacific.....	25,907	Illinois.....	11,089	Pacific.....	42,012
Washington.....	2,940	Michigan.....	12,281	California.....	36,496
California.....	22,189	Wisconsin.....	11,081	<u>Frozen packaged fish and other seafood (20361)</u>	
<u>Catsup and other tomato sauces (20351)</u>		West North Central.....	8,037	1954 United States, total.....	103,951
1954 United States, total.....	113,958	Minnesota.....	1,705	1947 United States, total.....	30,852
1953 United States, total.....	129,210	Iowa.....	2,836	1954	
1952 United States, total.....	120,984	Missouri.....	2,535	New England.....	33,144
1951 United States, total.....	135,481	South Atlantic.....	17,684	Massachusetts.....	30,263
		Maryland.....	4,687	Middle Atlantic.....	13,027
		Virginia.....	2,303	New York.....	5,649
		North Carolina.....	4,635	Pennsylvania.....	6,443
		Georgia.....	4,769		

See footnotes at end of table.



## MANUFACTURES—INDUSTRY STATISTICS

Table 6B.—VALUE OF PRODUCT CLASSES SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, BY DIVISIONS AND STATES FOR 1954, AND UNITED STATES TOTALS FOR EARLIER YEARS—Continued

Product class, region, and State <sup>1</sup>	Value of shipments	Product class, region, and State <sup>1</sup>	Value of shipments	Product class, region, and State <sup>1</sup>	Value of shipments
<u>Frozen packaged fish and other seafood (20361)—Continued</u>		<u>Fresh packaged fish and other seafood (20362)<sup>2</sup>—Continued</u>		<u>Frozen fruits and juices (20371)—Continued</u>	
East North Central.....	1,140	South Atlantic.....	21,458	West South Central.....	2,627
South Atlantic.....	24,842	Maryland.....	9,227	Louisiana.....	1,043
Maryland.....	2,449	Virginia.....	10,796	Mountain.....	1,027
Virginia.....	1,900	East South Central.....	415	Pacific.....	77,714
Georgia.....	14,982	West South Central.....	6,372	Washington.....	14,953
Florida.....	5,304	Louisiana.....	6,005	Oregon.....	13,742
East South Central.....	1,980	Pacific.....	7,156	California.....	49,018
West South Central.....	17,886	Washington.....	5,305	<u>Frozen vegetables (20372)</u>	
Louisiana.....	5,291	<u>Frozen fruits and juices (20371)</u>		1954 United States, total.....	168,149
Texas.....	12,595	1954 United States, total.....	256,481	1947 United States, total.....	68,932
Pacific.....	11,931	1947 United States, total.....	55,467	1954	
Washington.....	8,467	1954		Middle Atlantic.....	36,219
Oregon.....	2,146	New England.....	775	New York.....	14,814
California.....	1,317	Middle Atlantic.....	20,870	North Central.....	13,105
<u>Fresh packaged fish and other seafood (20362)<sup>2</sup></u>		New York.....	13,557	South Atlantic.....	15,663
1954 United States, total.....	53,552	Pennsylvania.....	6,381	Delaware.....	4,915
1954		North Central.....	14,972	Maryland.....	5,084
New England.....	9,479	Michigan.....	13,274	East South Central.....	2,661
Massachusetts.....	6,192	South Atlantic.....	136,935	West South Central.....	4,152
Middle Atlantic.....	8,478	Florida.....	132,379	Texas.....	1,756
New York.....	4,997	East South Central.....	1,500	Mountain.....	5,333
New Jersey.....	3,481	Tennessee.....	1,432	Pacific.....	88,949
North Central.....	192			Washington.....	27,508
				Oregon.....	15,533
				California.....	45,907

Note: The figures shown for 1950 to 1953 are sample estimates obtained from the Annual Survey of Manufactures for those years. Since the estimates are based on a sample they are subject to sampling variability, that is, they are not the same as figures which would have been obtained if complete censuses had been taken for those years. Measures of the sampling variability (standard errors) of the estimated total value of shipments of each product class are shown in the Annual Survey of Manufactures publications. Also shown are the standard errors of the relative change in shipments between some consecutive Annual Survey years which are the more significant measures when the series is studied for trend.

<sup>1</sup>For the specified product classes, shipments of over \$1 million were reported for the States listed but the exact figures are withheld to avoid disclosure of individual company figures: 20331, Massachusetts and West Virginia; 20332, Alabama; 20333, Maine, Massachusetts, Nebraska, Kansas, and Mississippi; 20334, Massachusetts, Ohio, Arkansas, and Texas; 20335, Delaware; 20338, Michigan, Wisconsin, Tennessee, Alabama, Arkansas, and Colorado; 20352, Minnesota, Kentucky, Alabama, Mississippi, Arkansas, Texas, and Colorado; 20354, Massachusetts, Virginia, South Carolina, Louisiana, and Washington; 20361, Maine; 20362, Maine; 20371, Virginia; 20372, Maine, New Jersey, Pennsylvania, Michigan, Minnesota, Virginia, Florida, Tennessee, Arkansas, and Idaho.

<sup>2</sup>This product was not covered in the Census of Manufactures prior to 1954.

## CANNING, PRESERVING, AND FREEZING

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Table 7.—MATERIALS CONSUMED, BY KIND: 1954

Code	Product description	Unit of measure	Quantity	Delivered cost (\$1,000)	Quantity	Delivered cost (\$1,000)	Quantity	Delivered cost (\$1,000)
			Industry 2033—Canned fruits and vegetables		Industry 2035—Pickles and sauces		Industry 2037—Frozen fruits and vegetables	
	Materials, containers and supplies, total.....	.....	xxx	1,376,720	xxx	336,485	xxx	260,556
	Fresh fruit:							
011211	Oranges.....	Tons....	720,072	27,230	...	...	1,584,753	58,247
011213	Grapes.....	...do..	175,640	16,719	...	...	12,854	1,353
011215	Apples.....	...do..	401,232	29,113	2,676	180	28,018	2,659
011217	Peaches.....	...do..	559,168	38,121	...	...	18,588	1,542
011219	Other fresh fruit.....	...do..	884,994	107,583	17,597	2,256	426,150	45,166
	Fresh vegetables:							
011311	Tomatoes.....	...do..	2,321,588	66,827	370,886	11,224	28,725	645
011331	Sweet corn.....	...do..	1,184,031	24,779	...	...	132,531	3,403
011351	Snap or wax beans.....	...do..	272,064	33,403	3,265	336	69,189	8,825
011371	Green peas.....	...do..	276,139	28,661	1,691	245	86,001	9,599
203411	Dried beans.....	...do..	175,791	35,309	5,094	954	...	...
203451	Dried fruits.....	...do..	35,286	9,594	3,196	770	126	24
206011	Sugar (cane and beet).....	Cwt....	18,227,461	170,509	11,901,292	116,572	11,132,244	110,412
970000	All other materials, ingredients, containers, and supplies consumed.....	.....	xxx	857,280	xxx	298,876	xxx	115,388
971000	Materials, etc., not specified by kind.....	.....	xxx	31,592	xxx	5,072	xxx	3,293
			Industry 2031—Canned sea food		Industry 2032—Cured fish		Industry 2036—Packaged sea food	
	Materials, containers and supplies, total.....	.....	xxx	165,876	xxx	24,694	xxx	116,157
091211	Fin fish, round.....	Tons....	297,219	95,533	43,657	19,005	102,132	39,303
970000	All other materials, ingredients, containers, and supplies consumed, including oysters, crabs, lobsters, etc.....	.....	xxx	68,454	xxx	4,865	xxx	72,223
971000	Materials, etc., not specified by kind.....	.....	xxx	1,889	xxx	824	xxx	4,631

xxx Not applicable.

<sup>1</sup>Consumption of sugar (cane and beet) in 1947 was as follows:

Code	Industry	Quantity (cwt.)	Delivered cost (\$1,000)
2033	Canned fruits and vegetables.....	8,134,060	67,504
2035	Pickles and sauces.....	1,558,290	13,379
2037	Frozen fruits and vegetables.....	396,760	3,304

## MANUFACTURES—INDUSTRY STATISTICS

Table 8.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY INDUSTRY SPECIALIZATION AND PRIMARY PRODUCT CLASS SPECIALIZATION, FOR THE UNITED STATES: 1954

(This table presents selected statistics for establishments classified according to their degree of specialization in products primary to the industry. The establishments are classified in two ways: (1) by industry specialization—the degree of specialization in all primary products of the industry; and (2) by product-class specialization—the degree of specialization in the largest product class of the establishment. The degree of "industry specialization" for an establishment represents the ratio of its primary product shipments to its total product shipments, primary and secondary. The degree of "product-class specialization" for an establishment represents the ratio of its largest product class shipments to its total product shipments, primary and secondary. Data are not shown for some industries, product classes, and specialization ranges for a variety of reasons, consequently, detailed figures frequently do not add to the totals. See Introduction for detailed explanation)

Ind. or product class No.	Industry or product class by percent of specialization	Establishments, number	All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
2033	CANNED FRUITS AND VEGETABLES, (entire industry).....	1,758	119,836	354,746	105,613	206,076	276,063	830,019	1,398,928	2,228,947
	Establishments with:									
	90% or more specialization.....	1,450	87,445	254,946	77,363	149,665	198,695	594,828	967,382	1,562,211
	75-89% specialization.....	117	15,265	46,158	13,667	27,166	37,300	101,209	196,273	297,483
	50-74% specialization.....	141	14,575	46,309	12,573	25,612	35,725	123,605	213,143	336,748
	All other <sup>1</sup> .....	50	2,549	7,332	2,008	3,631	4,343	10,375	22,128	32,504
20331	Canned fruits:									
	All establishments specializing in product class.	243	25,036	77,868	22,651	44,681	63,824	174,396	305,363	479,760
	Establishments with:									
	90% or more specialization.....	115	8,266	25,709	7,459	14,618	20,647	60,893	110,221	171,114
	75-89% specialization.....	33	4,697	14,571	4,347	8,774	12,469	32,460	57,140	89,600
	50-74% specialization.....	73	10,046	31,794	9,019	17,721	25,729	68,025	116,856	184,881
	Less than 50% specialization.....	22	2,026	5,793	1,824	3,566	4,978	13,018	21,145	34,163
20332	Canned seasonal vegetables:									
	All establishments specializing in product class.	742	38,455	91,927	34,542	65,465	73,720	185,830	296,900	482,731
	Establishments with:									
	90% or more specialization.....	562	22,866	52,376	20,676	39,051	42,372	109,805	168,775	278,580
	75-89% specialization.....	69	5,969	14,990	5,381	10,564	11,812	26,126	46,152	72,279
	50-74% specialization.....	83	5,826	13,874	5,167	9,434	10,994	26,695	49,069	75,765
	Less than 50% specialization.....	28	3,792	10,686	3,317	6,415	8,541	23,202	32,903	56,106
20333	Canned nonseasonal vegetables and specialties:									
	All establishments specializing in product class.	200	15,050	39,441	13,410	26,313	31,202	96,149	167,147	263,296
	Establishments with:									
	90% or more specialization.....	97	3,965	9,930	3,473	6,762	7,338	21,014	34,858	55,873
	75-89% specialization.....	28	1,666	4,180	1,419	2,725	3,137	9,874	18,197	28,071
	50-74% specialization.....	54	6,771	18,704	6,024	12,224	15,203	51,347	85,308	136,656
	Less than 50% specialization.....	21	2,647	6,626	2,493	4,600	5,523	13,912	28,783	42,695
20334	Canned fruit juices:									
	All establishments specializing in product class.	118	6,025	18,043	5,355	10,894	13,655	45,686	85,545	131,231
	Establishments with:									
	90% or more specialization.....	71	1,049	3,334	883	1,607	1,995	8,843	14,308	23,151
	75-89% specialization.....	17	2,002	6,435	1,808	3,717	5,104	17,992	29,182	47,174
	50-74% specialization.....	25	2,701	7,417	2,447	5,177	5,981	16,068	36,966	53,035
	Less than 50% specialization.....	5	272	856	215	392	575	2,782	5,088	7,871
20335	Canned vegetable juices:									
	All establishments specializing in product class.	34	1,890	6,127	1,618	3,569	4,936	15,661	24,921	40,583
	Establishments with:									
	90% or more specialization.....	16	548	1,481	469	1,143	1,230	3,494	6,421	9,916
	75-89% specialization.....	3	115	231	99	169	168	351	824	1,175
	50-74% specialization.....	8	440	1,206	369	733	885	3,588	4,273	7,862
	Less than 50% specialization.....	7	786	3,208	680	1,523	2,652	8,227	13,402	21,630
20337	Canned soups and poultry products:									
	All establishments specializing in product class.	38	14,416	55,412	12,030	23,486	42,484	148,409	212,372	360,781
	Establishments with:									
	90% or more specialization.....	21	631	2,014	546	1,103	1,502	4,405	7,297	11,702
20338	Jams, jellies, and preserves:									
	All establishments specializing in product class.	169	5,149	17,140	4,139	7,779	10,799	35,189	106,034	141,223
	Establishments with:									
	90% or more specialization.....	110	2,551	8,300	2,153	3,887	5,549	18,689	55,529	74,219
	75-89% specialization.....	13	350	954	268	551	605	1,952	5,860	7,813
	50-74% specialization.....	35	1,724	6,324	1,319	2,563	3,677	11,684	38,194	49,879
	Less than 50% specialization.....	11	523	1,560	398	775	966	2,862	6,450	9,312
2035	PICKLES AND SAUCES, (entire industry).....	717	21,895	67,084	18,230	35,977	47,594	140,925	340,582	481,507
	Establishments with:									
	90% or more specialization.....	582	13,133	38,125	11,244	21,932	27,958	70,051	189,304	259,355
	75-89% specialization.....	32	2,097	7,466	1,602	3,459	4,566	11,175	21,523	32,698
	50-74% specialization.....	83	5,186	16,476	4,276	8,469	11,937	45,337	96,965	142,303
	All other <sup>1</sup> .....	20	1,477	5,016	1,306	2,116	3,132	14,360	32,790	47,150
20351	Catsup and other tomato sauces:									
	All establishments specializing in product class.	78	2,739	8,272	2,405	5,041	6,664	18,517	37,425	55,942
	Establishments with:									
	90% or more specialization.....	50	1,126	3,125	969	1,837	2,326	5,823	13,130	18,953
	75-89% specialization.....	5	363	1,088	303	656	832	1,276	2,674	3,950

See footnote at end of table.



## CANNING, PRESERVING, AND FREEZING

20C-31

Table 8.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY INDUSTRY SPECIALIZATION AND PRIMARY PRODUCT CLASS SPECIALIZATION, FOR THE UNITED STATES: 1954—Continued

Ind. or product class No.	Industry or product class by percent of specialization	Establishments, number	All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
20352	PICKLES AND SAUCES—Continued									
	Pickles and other pickled products:									
	All establishments specializing in product class.	287	10,599	28,767	9,061	18,078	21,167	49,921	87,710	137,631
	Establishments with:									
	90% or more specialization.....	206	5,063	12,888	4,432	8,849	9,859	23,617	39,226	62,844
	75-89% specialization.....	34	2,109	6,378	1,799	3,665	4,661	11,132	19,429	30,562
	50-74% specialization.....	38	2,615	7,540	2,152	4,224	5,043	10,989	20,195	31,185
	Less than 50% specialization.....	9	811	2,160	677	1,339	1,603	4,181	8,858	13,040
20353	Mustard and other meat sauces, except tomato:									
	All establishments specializing in product class.	92	1,690	5,413	1,402	2,691	3,585	13,558	23,182	36,741
	Establishments with:									
	90% or more specialization.....	73	1,044	3,157	869	1,702	2,080	7,113	13,208	20,321
	75-89% specialization.....	5	12	52	10	21	20	108	163	272
	50-74% specialization.....	9	236	771	189	336	559	3,417	4,891	8,309
	Less than 50% specialization.....	5	397	1,432	332	631	924	2,918	4,919	7,838
20354	Salad dressings, including mayonnaise:									
	All establishments specializing in product class.	134	5,214	20,453	4,003	7,521	13,261	51,331	179,312	230,643
	Establishments with:									
	90% or more specialization.....	92	2,323	8,921	1,917	3,587	6,296	15,060	86,626	101,686
	75-89% specialization.....	12	567	2,045	444	854	1,308	3,567	13,226	16,794
	50-74% specialization.....	23	1,608	6,873	1,181	2,235	4,288	23,347	54,759	78,107
	Less than 50% specialization.....	7	714	2,613	460	844	1,367	9,355	24,699	34,055
20355	Unfinished pickles, (salt stock):									
	All establishments specializing in product class.	39	698	1,687	580	1,161	1,229	2,691	4,002	6,693
	Establishments with:									
	90% or more specialization.....	31	434	944	363	714	699	1,532	2,835	4,367
	75-89% specialization.....	3	86	232	78	165	200	543	477	1,021
	50-74% specialization.....	5	177	510	138	281	329	615	689	1,304
2036	PACKAGED SEAFOOD, (entire industry).....	295	12,200	27,190	11,232	18,779	21,549	45,657	118,968	164,625
	Establishments with:									
	90% or more specialization.....	264	10,149	22,282	9,356	15,929	17,445	38,469	99,499	137,969
	75-89% specialization.....	5	106	387	101	196	368	533	1,488	2,021
	50-74% specialization.....	17	1,696	3,997	1,552	2,293	3,326	5,665	17,215	22,881
	All other <sup>1</sup> .....	9	247	522	222	358	409	988	764	1,753
20361	Frozen packaged fish and other seafood:									
	All establishments specializing in product class.	120	6,376	15,739	5,792	10,756	12,045	29,745	79,356	109,102
	Establishments with:									
	90% or more specialization.....	90	4,581	10,272	4,187	7,572	7,713	21,175	56,626	77,802
	75-89% specialization.....	8	333	1,078	305	605	730	1,339	5,057	6,397
	50-74% specialization.....	19	1,350	3,889	1,202	2,361	3,164	6,459	15,407	21,867
	Less than 50% specialization.....	3	110	499	97	217	436	771	2,264	3,036
20362	Fresh packaged fish and other seafood:									
	All establishments specializing in product class.	158	5,381	10,220	5,043	7,367	8,517	14,415	37,278	51,694
	Establishments with:									
	90% or more specialization.....	140	4,203	8,253	3,917	5,976	6,802	11,806	27,647	39,453
	75-89% specialization.....	7	420	879	398	782	741	985	2,293	3,279
2037	FROZEN FRUITS AND VEGETABLES, (entire industry).....	266	21,436	59,238	18,638	36,104	45,879	148,517	268,623	417,140
	Establishments with:									
	90% or more specialization.....	212	13,949	38,068	12,427	23,926	30,448	98,891	166,658	265,549
	75-89% specialization.....	26	3,586	10,387	2,918	5,770	7,407	20,530	47,802	68,332
20371	Frozen fruits and juices:									
	All establishments specializing in product class.	126	8,364	24,494	7,033	13,640	18,081	69,701	171,190	240,891
	Establishments with:									
	90% or more specialization.....	78	2,634	7,682	2,323	4,378	6,037	30,485	77,457	107,942
	75-89% specialization.....	17	2,114	6,710	1,660	3,284	4,575	10,270	37,656	47,926
	50-74% specialization.....	26	3,212	9,462	2,703	5,539	7,014	26,455	50,352	76,808
	Less than 50% specialization.....	5	402	639	345	438	455	2,490	5,724	8,214
20372	Frozen vegetables:									
	All establishments specializing in product class.	104	12,497	33,289	11,090	21,480	26,621	75,411	91,605	167,016
	Establishments with:									
	90% or more specialization.....	63	6,962	18,786	6,202	12,475	15,050	41,022	48,604	89,626
	75-89% specialization.....	21	2,828	7,316	2,477	4,599	5,719	19,335	23,320	42,655

<sup>1</sup>This class includes data for establishments with less than 50 percent specialization in the primary products of the industry and establishments engaged exclusively in contract work defined in the industry. Miscellaneous small statistical adjustments are also included.



## Grain Mill Products

This report shows 1954 Census of Manufactures statistics for establishments classified into each of the following industries:

Code	Title
2041--	Flour and Meal
2042--	Prepared Animal Feeds
2043--	Cereal Breakfast Foods
2044--	Rice Milling
2045--	Flour Mixes

This group includes the principal grain-consuming industries. Statistics on grains used (Table 7) are presented separately for each of the industries included in the group; similar data for other industries using grain (Industry 2094, Corn Wet Milling, and Group 208, Beverages) are shown in other reports.

Establishments in this group of industries, particularly Industries 2041 and 2042, frequently are engaged in supplementing their manufacturing activities with sales of grain and other commodities produced elsewhere. The value of such resales has been excluded from the value of shipments, cost of materials, and value added by manufacture; however, these activities are reflected in other industry statistics mainly employment and inventories. Establishments engaged both in manufacturing and resale activities were included in the Census of Manufactures if the value added by manufacturing exceeded the value added by resales.

The titles for Industries 2043, 2044 and 2045 have been revised from those shown in reports of the 1947 Census. The definitions of the industries, however, have not been changed.

2041--Flour and Meal (Full Standard Industrial Classification Title: Flour and Other Grain-Mill Products)

This industry comprises establishments primarily engaged in milling flour or meal from grain, except rice (Industry 2044, Rice Milling). Such flour and grain mills may also produce cracked grain used as cereal or stock dry feed, or blended and prepared flours, principally from products ground in the same establishment. Important products of this industry include wheat flour (white; semolina; farina; granular; graham; whole-wheat-blended, phosphated, enriched, self-rising, and other prepared flour); rye, buckwheat, corn, and other flour; prepared flour mixes and corn meal; corn grits and flakes for brewers' use; and bran and middlings.

Establishments primarily engaged in manufacturing prepared flour mixes are classified in Industry 2041 if the principal raw material is flour milled in the same establishment; if the flour is milled elsewhere, such blending plants are classified in Industry 2045, Blended and Prepared Flour. Establishments primarily engaged in manufacturing prepared animal feeds from grain are classified in Industry 2042, Prepared Animal Feeds. Establishments primarily engaged in custom milling and other agricultural services are not included in the Census of Manufactures.

For a detailed list of primary products of Industry 2041, refer to Table 6A, product codes 2041111 to 2041498 and codes 2045011 to 2045049.

The value of shipments of Industry 2041, Flour and Meal, in 1954 totaled \$1,859 million. This included shipments of primary products (flour and meal) valued at \$1,734 million, shipments of secondary products valued at \$119 million, and miscellaneous receipts (mainly custom milling of grain owned by others) of \$6 million. Excluded from these totals are \$143 million of products bought and resold without further processing (merchandising).

Industry 2041 shipments of flour (including flour mixes) and meal (primary products) in 1954 represented 94 percent of its total manufactured product shipments (primary and secondary). In 1947, this primary product specialization ratio was 92 percent. Secondary products shipped by Industry 2041 in 1954 consisted principally of prepared animal feed (except dog and cat food), \$106 million.

Industry 2041 shipments of flour and meal in 1954 represented 84 percent of these products valued at \$2,056 million shipped by all industries. In 1947, this coverage ratio was 92 percent. In 1954, the total value of flour mixes produced in manufacturing industries amounted to \$403 million. Of this total, 48 percent or \$194 million was produced in flour mills; the remaining 52 percent was produced from purchased flour,<sup>1</sup> mainly in Industry 2045, Flour Mixes. The 1954 Census coverage ratio for Industry 2041 would be increased from 84 percent to 93 percent if applied only to flour and meal made in flour and grain mills. The comparable ratio for 1947 would be 95 percent. Other industries shipping flour and meal in 1954 consisted mainly of Industry 2042, Prepared Animal Feeds, \$79 million; and Industry 2043, Cereal Breakfast Foods, \$44 million.

2042--Prepared Animal Feeds (Full Standard Industrial Classification Title: Prepared Feeds for Animals and Fowls)

This industry comprises establishments primarily engaged in manufacturing prepared feeds for animals and fowls. Prepared feeds include those made from milled grains; animal, marine, and vegetable proteins; alfalfa meal, bone meal, calcium carbonate, manganese, and other mineral supplements; fish liver oils, distillers' solubles, and other vitamin supplements. Mills primarily engaged in the custom grinding of feeds or other agricultural services are excluded from the scope of the Census of Manufactures. For a detailed list of primary products of Industry 2042, refer to Table 6A, product codes 2042111 to 2042498.

The value of shipments of Industry 2042, Prepared Animal Feeds, in 1954 totaled \$2702 million. This included shipments of primary products (prepared animal feeds) valued at \$2546 million, shipments of secondary products valued at \$125 million, and miscellaneous receipts of \$2 million. Excluded from these totals are \$279 million of grain and other commodities bought and resold without further processing (merchandising). Establishments engaged both in manufacturing and resale activities were included in the Census of Manufactures only if the value added by manufacturing exceeded the value added by resales.

Industry 2042 shipments of prepared animal feeds (primary products) in 1954 represented 95 percent of its total manufactured product shipments (primary and secondary). In 1947, this primary product specialization ratio was also 95 percent. Secondary products shipped by this industry in 1954 consisted principally of wheat flour, corn meal, flour mixes, cereal preparations, and other grain-mill products, valued at \$69 million.

Industry 2042 shipments of prepared animal feeds in 1954 represented 90 percent of these products valued at \$2843 million shipped by all manufacturing industries. In 1947, this coverage ratio was 89 percent. Other industries shipping prepared animal feeds in 1954 consisted mainly of Industry 2041, Flour and Meal, \$106 million; Industry 2883, Soybean Oil Mills, \$60 million; Industry 2011, Meat Packing Plants, \$56 million; and Industry 2043, Cereal Breakfast Foods, \$30 million.

<sup>1</sup>The term "purchased" includes transfers from other manufacturing plants owned by the same company.



**2043—Cereal Breakfast Foods** (Full Standard Industrial Classification Title: Cereal Preparations)

This industry comprises establishments primarily engaged in manufacturing breakfast foods, coffee substitutes, and other cereal preparations from grain. Principal products of the industry are breakfast cereals made of wheat, corn, or rice, and cereal preparations to be cooked before serving, such as farina and oatmeal. Establishments primarily engaged in manufacturing cracked grain for human consumption are classified in Industry 2041, Flour and Meal, and those engaged chiefly in grinding, cracking or rolling grains for animal feed in Industry 2042, Prepared Animal Feeds. For a detailed list of primary products of Industry 2043, refer to Table 6A, product codes 2043011 to 2043098.

The value of shipments of Industry 2043, Cereal Breakfast Foods, in 1954 totaled \$346 million. This included shipments of primary products (cereal breakfast foods) valued at \$265 million, shipments of secondary products valued at \$80 million, and miscellaneous receipts of \$1 million.

Industry 2043 shipments of cereal breakfast foods (primary products) in 1954 represented 77 percent of its total manufactured product shipments (primary and secondary). In 1947, this primary product specialization ratio was 68 percent. Secondary products shipped in this industry in 1954 consisted mainly of prepared animal feeds, \$30 million; and flour and meal, \$44 million.

Industry 2043 shipments of cereal breakfast foods in 1954 represented 80 percent of these products valued at \$331 million shipped by all manufacturing industries. In 1947, this coverage ratio was 87 percent. Other industries shipping cereal breakfast foods in 1954 consisted mainly of Industry 2045, Flour Mixes, and Industry 2042, Prepared Animal Feeds.

**2044—Rice Milling** (Full Standard Industrial Classification Title: Rice Cleaning and Polishing)

This industry comprises establishments primarily engaged in cleaning and polishing rice, and in manufacturing rice flour or meal. Important products of this industry include brown rice, milled rice (including polished rice), rice polish, rice bran, and rice flour. For a detailed list of primary products of Industry 2044, refer to Table 6A, product codes 2044011 to 2044098.

The value of shipments of Industry 2044, Rice Milling, in 1954 totaled \$267 million and consisted almost entirely of primary products (milled rice and byproducts). In 1947, the primary product specialization ratio was also 100 percent. Industry 2044 accounted for all of the milled rice and byproducts manufactured and shipped by manufacturing industries in 1954. In 1947, this coverage ratio was also 100 percent.

**2045—Flour Mixes** (Full Standard Industrial Classification Title: Blended and Prepared Flour)

This industry comprises establishments primarily engaged in the preparation of self-rising or blended flour from purchased flour. Important products of this industry include plain blended flour, and phosphated, self-rising, and other kinds of prepared flour such as biscuit, cake, doughnut, and pancake flour. Establishments primarily engaged in milling flour from grain are classified in Industry 2041, Flour and Meal. For a detailed list of primary products of Industry 2045, refer to Table 6A, product codes 2045011 to 2045049.

The value of shipments of Industry 2045, Flour Mixes, in 1954 totaled \$254 million. This included shipments of primary products (flour mixes) valued at \$180 million and shipments of secondary products valued at \$74 million. Excluded from these totals are \$13 million of products bought and resold without further processing (merchandising).

Industry 2045 shipments of flour mixes (primary products) in 1954 represented 71 percent of its total product shipments (primary and secondary). In 1947, this primary product specialization ratio was 81 percent. Secondary products shipped by this industry in 1954 consisted mainly of cereal preparations and grain-mill products, \$51 million.

Industry 2045 shipments of flour mixes in 1954 represented 45 percent of the flour mixes valued at \$403 million, shipped by all industries. In 1947, this coverage ratio was 17. As indicated in the text for Industry 2041, flour mills accounted for 48 percent of these products shipped by manufacturing industries. The 1954 Census coverage ratio for Industry 2045 would be increased from 45 percent to 86 percent if applied to flour mixes made only from purchased flour (excluding flour mills). The comparable ratio for 1947 would be 67 percent. The principal other industry shipping flour mixes, in 1954, consisted of Industry 2043, Cereal Breakfast Foods, \$13 million.

The general statistics (employment, payrolls, value of shipments, cost of materials, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products, and, for that matter, their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (Tables 1-4) with product statistics (Table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in Table 5A which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry made as secondary products by establishments classified in other industries.

## GRAIN-MILL PRODUCTS

20D-3

Table 1.—GENERAL STATISTICS FOR THE UNITED STATES: 1954 AND EARLIER YEARS

(For explanation of column captions see Introduction)

Industry and census year	Establishments, number	All employees		Production workers		Value added by manufacture <sup>2</sup> (\$1,000)	Cost of materials, etc. <sup>3</sup> (\$1,000)	Value of shipments <sup>4</sup> (\$1,000)
		Number <sup>1</sup>	Payroll (\$1,000)	Number <sup>1</sup>	Wages (\$1,000)			
Flour and meal (S.I.C. 2041):								
1954.....	803	28,969	119,844	21,447	83,813	315,143	1,543,745	1,858,888
1953 <sup>2</sup> .....	(NA)	31,204	121,783	23,916	89,867	360,329	1,599,249	1,959,578
1952 <sup>2</sup> .....	(NA)	34,661	134,840	26,120	95,658	386,051	1,843,066	2,229,117
1951 <sup>2</sup> .....	(NA)	34,664	128,435	26,547	90,129	378,608	1,794,966	2,173,574
1950 <sup>2</sup> .....	(NA)	34,397	118,016	26,358	81,548	346,608	1,530,593	1,877,201
1949 <sup>5</sup> .....	(NA)	35,706	113,978	27,425	78,421	284,774	1,518,543	1,803,317
1947.....	1,243	39,597	119,533	30,821	86,000	410,774	2,115,872	2,526,646
1939 <sup>6</sup> .....	2,143	35,978	49,375	24,771	28,370	143,882	506,061	649,943
1937.....	2,238	32,977	44,008	26,390	30,186	133,599	722,711	856,310
1935.....	2,193	33,805	41,860	26,495	27,105	136,997	716,222	853,219
1933.....	1,932	28,713	31,374	23,207	22,591	134,332	432,671	567,003
1931.....	2,412	(NA)	22,840	27,298	136,950	461,091	598,041	598,041
1929.....	4,022	35,792	55,667	27,028	35,072	191,396	868,873	1,060,269
1927.....	4,035	40,128	59,791	29,982	37,559	176,049	972,711	1,148,760
1925 <sup>7</sup> .....	4,413	42,775	62,693	31,988	39,700	172,636	1,125,379	1,298,015
1923.....	5,232	48,029	68,035	35,194	41,704	162,605	885,972	1,048,577
1921.....	6,485	48,137	68,818	35,378	43,143	185,930	993,810	1,179,740
1919.....	10,708	63,832	82,901	45,481	50,888	253,253	1,799,181	2,052,434
1914.....	10,788	52,966	40,963	39,718	24,593	125,410	752,270	877,680
1909.....	11,691	51,484	33,981	39,453	21,464	116,008	767,576	883,584
1904.....	10,051	46,525	27,175	39,110	19,822	93,062	619,971	713,033
1899.....	9,476	37,748	21,543	32,226	16,285	73,279	428,117	501,396
Prepared animal feeds (S.I.C. 2042):								
1954.....	2,292	59,890	225,199	41,290	138,520	584,135	2,118,132	2,702,267
1953 <sup>2</sup> .....	(NA)	54,845	200,340	38,870	125,409	522,794	1,875,862	2,398,656
1952 <sup>2</sup> .....	(NA)	56,571	200,837	40,777	132,176	554,849	2,228,677	2,783,526
1951 <sup>2</sup> .....	(NA)	56,238	189,008	39,710	121,734	514,200	1,932,808	2,447,008
1950 <sup>2</sup> .....	(NA)	58,505	176,598	40,032	112,146	498,921	1,703,225	2,202,146
1949 <sup>5</sup> .....	(NA)	55,206	162,457	38,449	98,329	414,705	1,536,394	1,951,099
1947.....	2,688	55,152	142,562	40,115	93,124	393,049	1,719,192	2,112,241
1939.....	1,383	24,177	31,803	15,401	16,253	99,240	302,640	401,880
1937.....	1,126	19,190	24,486	14,397	15,839	76,706	338,505	415,211
1935.....	942	15,427	18,348	11,606	11,068	58,040	230,622	288,662
1933.....	710	11,340	11,496	8,791	7,866	39,273	122,070	161,343
1931.....	796	(NA)	8,449	9,402	47,187	162,734	209,921	209,921
1929.....	750	14,384	22,400	10,223	12,821	74,833	327,920	402,753
1927 <sup>8</sup> .....	447	11,378	17,475	7,632	9,703	55,117	244,676	299,793
Cereal preparations (S.I.C. 2043):								
1954 <sup>9</sup> .....	46	11,534	51,002	9,149	38,062	172,283	173,559	345,843
1953 <sup>2</sup> .....	(NA)	12,027	49,385	9,776	38,357	178,177	197,184	375,361
1952 <sup>2</sup> .....	(NA)	14,129	54,282	11,404	40,697	190,001	237,430	427,431
1951 <sup>2</sup> .....	(NA)	14,212	51,345	11,678	39,075	177,414	238,219	415,633
1950 <sup>2</sup> .....	(NA)	13,663	46,083	10,535	33,801	159,847	201,953	361,800
1947.....	64	11,276	30,689	9,496	25,160	130,188	154,478	284,666
1939.....	70	9,033	13,647	7,458	9,857	70,349	58,034	128,383
1937 <sup>10</sup> .....	71	(NA)	(NA)	7,725	10,419	65,680	85,181	150,861
1935.....	110	9,204	11,531	7,890	8,526	64,248	82,433	146,681
1933.....	103	8,135	9,064	7,115	7,270	56,011	55,015	111,026
1931.....	111	(NA)	(NA)	7,018	9,005	72,156	69,427	141,583
1929.....	121	8,158	12,231	6,488	8,876	73,751	101,472	175,223
1927.....	77	7,210	11,032	6,028	8,417	63,815	91,748	155,563
1925.....	90	(NA)	(NA)	6,168	7,942	57,502	92,577	150,079
1923.....	92	7,627	10,438	6,410	7,878	48,287	84,458	132,745
1921.....	82	7,853	12,189	5,749	7,178	43,482	74,559	118,041
1919.....	105	10,874	14,258	7,634	8,509	41,835	117,838	159,223
1914 <sup>11</sup> .....	137	7,513	6,094	5,177	3,134	23,218	36,767	59,985
Rice milling (S.I.C. 2044):								
1954.....	80	3,964	13,367	3,129	8,397	42,359	224,502	266,861
1947.....	88	4,072	9,999	3,267	6,700	43,432	181,309	224,741
1939.....	72	3,218	3,094	2,346	1,533	8,561	33,802	42,363
1937.....	61	2,781	2,592	2,218	1,356	8,037	38,816	46,853
1935.....	68	2,609	2,664	2,025	1,312	9,899	34,214	44,113
1933.....	50	1,988	1,646	1,636	1,022	7,986	22,697	30,683
1931.....	55	(NA)	(NA)	1,503	1,276	8,547	31,813	40,360
1929.....	60	2,116	2,658	1,589	1,449	10,350	38,444	48,794
1927.....	60	2,146	2,752	1,524	1,546	7,649	46,481	54,130
1925.....	63	1,881	2,220	1,296	1,098	7,651	45,847	53,498
1923.....	69	2,365	2,520	1,764	1,379	6,855	40,213	47,068
1921.....	76	2,644	3,107	1,940	1,707	7,034	34,179	41,213
1919.....	86	3,209	3,441	2,113	1,932	13,404	76,634	90,038

See footnotes at end of table.

## MANUFACTURES—INDUSTRY STATISTICS

Table 1.—GENERAL STATISTICS FOR THE UNITED STATES: 1954 AND EARLIER YEARS  
(For explanation of column captions see Introduction)

Industry and census year	Establish- ments, number	All employees		Production workers		Value added by manufacture <sup>2</sup> (\$1,000)	Cost of materials, etc. <sup>3</sup> (\$1,000)	Value of shipments <sup>4</sup> (\$1,000)
		Number <sup>1</sup>	Payroll (\$1,000)	Number <sup>1</sup>	Wages (\$1,000)			
Rice milling—Con.								
1914.....	59	1,691	1,284	1,253	646	2,423	20,616	23,039
1909.....	71	1,739	1,177	1,239	564	2,870	19,501	22,371
1904.....	74	1,928	1,189	1,492	641	2,982	13,315	16,297
1899.....	80	820	448	651	266	1,148	7,576	8,724
Flour mixes (S.I.C. 2045):								
1954.....	131	5,585	25,446	4,366	16,982	103,134	151,001	254,136
1947.....	123	3,120	8,953	2,364	5,245	24,249	54,193	78,442
1939.....	78	1,105	1,419	706	593	3,928	13,966	17,894
1937 <sup>12</sup> .....	41	(NA)	(NA)	408	373	3,909	9,725	13,634

NA Not available.

<sup>1</sup>For the period 1949-1954, figures are based on employment for the payroll periods ended nearest the 15th of March, May, August and November. (However, in the case of the "Rice milling" industry a different method was used for 1954: All employees represents the average of 12 monthly figures, and production workers was calculated by subtracting from the all employees total the average number of nonproduction employees for March, May, August and November). For 1947, figures represent the average of 12 monthly figures. For earlier years, the production worker average was calculated as in 1947, but the all employees figure represents the sum of the annual average number of production workers and the number of nonproduction workers reported for one payroll period (usually in October).

<sup>2</sup>Value of products less cost of materials, supplies, fuel, electric energy and contract work. See Introduction, "Value Added by Manufacture."

<sup>3</sup>Figures for years prior to 1935 do not include cost of contract work.

<sup>4</sup>For 1929 and 1947-1954, value of shipments; for all other years, value of production. See Introduction, "Value of Shipments."

<sup>5</sup>The figures for 1949-1953 represent estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period. Estimates with a standard error in excess of 15 percent generally have been omitted from this table.

<sup>6</sup>The figures for 1939 include data for two establishments making soy flour. Although soy flour is now classified in the "Soybean oil mills" industry, the data for these two establishments have been included in the 1939 figures for "Flour and meal" to avoid disclosure of their figures.

<sup>7</sup>The figures for 1899-1925 are not strictly comparable with those for later years because they include data for establishments which make prepared animal feeds from grain ground in the same establishment. Such establishments have been classified in "Prepared animal feeds" since 1927.

<sup>8</sup>The figures for years prior to 1927 are not sufficiently comparable with those for later years to be shown in this table because they do not include data for manufacturers of prepared feeds who grind the grain consumed.

<sup>9</sup>This industry contains a number of small establishments some of which may have been misclassified as to industry. This would not affect the statistics other than the number of establishments.

<sup>10</sup>The figures for 1937-1954 exclude data for self-rising flour, whereas the figures for earlier years include data for this product. Value added in 1937, including data for self-rising flour, was \$69.6 million.

<sup>11</sup>Prior to 1914, "Cereal preparations" was combined with "Food preparations, n.e.c."

<sup>12</sup>The figures for 1937 are for self-rising flour only. Blended flour made from purchased flour was not classified as a manufactured product prior to 1937. No comparable figures are available prior to 1937.



## GRAIN-MILL PRODUCTS

20D-5

Table 2.—GENERAL STATISTICS BY REGIONS AND STATES: 1954 AND 1947  
(For explanation of column captions see Introduction)

Industry, region, and State <sup>1</sup>	1954											1947	
	Establish- ments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
	Total	20 or more em- ployees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
Flour and meal (S.I.C. 2041), total.....	803	260	28,969	119,844	21,447	47,919	83,813	315,143	1,543,745	1,858,888	15,240	39,597	410,774
Northeast.....	85	16	2,840	13,987	2,316	5,316	11,013	30,379	209,543	239,922	1,065	3,373	52,280
New York.....	24	10	2,282	11,942	1,874	4,335	9,647	26,901	188,644	215,546	815	2,577	47,341
Pennsylvania.....	56	4	481	1,721	381	851	1,173	2,810	16,565	19,375	220	723	(D)
East North Central.....	127	43	5,998	27,225	4,332	9,512	17,726	73,435	275,138	348,574	3,995	6,876	61,685
Ohio.....	32	7	726	2,885	560	1,153	2,040	7,138	47,654	54,793	403	1,147	(D)
Michigan.....	24	9	785	3,785	476	1,108	2,128	6,663	34,401	41,064	822	889	5,866
West North Central.....	114	80	7,667	32,578	5,966	13,522	24,439	88,244	547,562	635,807	4,028	13,667	157,328
Minnesota.....	31	21	2,236	10,128	1,819	4,111	7,903	20,920	179,495	200,416	684	3,696	40,021
Iowa.....	6	4	294	1,227	243	550	1,001	4,530	26,214	30,745	125	400	(D)
Missouri.....	21	13	1,537	6,602	1,152	2,622	4,811	17,775	114,018	131,794	551	3,384	35,979
Nebraska.....	12	7	595	2,224	475	1,039	1,711	7,030	33,513	40,543	604	1,257	12,992
Kansas.....	37	30	2,698	11,216	2,014	4,611	8,043	34,832	179,110	213,942	1,991	4,367	55,734
South Atlantic.....	217	30	2,709	7,961	1,871	4,123	4,591	18,744	60,712	79,457	1,278	2,859	18,088
Delaware.....	7	...	47	122	42	93	110	134	1,362	1,496	23	16	(D)
Maryland.....	10	2	307	1,258	222	558	903	7,297	17,854	25,151	164	483	6,996
North Carolina.....	75	11	836	2,234	545	1,220	1,228	3,303	14,953	18,257	(D)	688	(D)
East South Central.....	120	20	2,530	8,601	1,733	3,943	5,350	23,743	84,632	108,376	1,340	2,442	18,437
Kentucky.....	36	6	787	2,721	563	1,360	1,904	9,143	25,633	34,777	329	989	(D)
Alabama.....	17	1	399	1,354	223	496	705	5,017	16,198	21,215	505	(D)	(D)
West South Central.....	51	25	2,747	10,343	1,906	4,245	6,801	27,743	135,669	163,412	2,000	4,970	50,209
Texas.....	30	14	1,783	6,419	1,192	2,608	4,131	16,738	78,185	94,924	726	3,033	29,955
Mountain.....	49	22	1,734	7,021	1,275	3,006	5,197	19,433	83,571	103,005	574	2,109	17,753
Montana.....	7	5	263	1,173	207	489	914	3,779	17,756	21,535	26	415	3,848
Idaho.....	8	7	330	1,203	281	665	1,005	2,194	10,210	12,404	94	331	2,903
Colorado.....	13	5	434	1,647	319	717	1,251	3,913	22,188	26,102	125	689	(D)
Utah.....	13	3	481	2,182	332	851	1,593	8,432	28,246	36,678	269	491	4,296
Pacific.....	40	24	2,742	12,125	2,046	4,248	8,692	33,418	146,914	180,333	957	3,301	34,994
Washington.....	14	9	1,254	5,495	975	1,967	4,144	15,545	66,122	81,668	510	1,575	16,253
Oregon.....	12	10	693	2,977	498	1,070	2,031	6,263	40,366	46,629	155	895	11,674
California.....	14	5	795	3,653	572	1,210	2,516	11,609	40,426	52,036	290	831	7,067
Prepared animal feeds (S.I.C. 2042), total.....	2,292	685	59,890	225,199	41,290	91,220	138,520	584,135	2,118,132	2,702,267	36,812	55,152	393,049
New England.....	47	26	1,710	6,667	1,288	2,726	4,313	24,201	102,533	126,734	(D)	1,870	15,200
Maine.....	9	5	242	799	200	416	550	3,926	4,893	8,819	108	61	(D)
Massachusetts.....	19	10	583	2,171	422	879	1,373	7,186	25,096	32,283	231	822	(D)
Middle Atlantic.....	269	70	7,352	31,968	5,055	11,028	19,894	74,407	313,821	388,228	3,179	8,290	72,300
New York.....	107	43	4,709	22,156	3,204	7,050	13,942	52,360	218,897	271,258	1,773	5,056	51,032
New Jersey.....	27	6	538	2,011	344	702	1,091	6,533	23,319	29,852	272	932	6,906
Pennsylvania.....	135	21	2,104	7,801	1,506	3,275	4,860	15,513	71,604	87,118	1,133	2,302	14,362
East North Central.....	400	108	11,028	43,765	7,626	16,332	27,977	132,320	410,253	542,573	5,698	11,641	80,079
Ohio.....	97	34	3,313	13,307	2,305	5,018	8,721	31,242	149,382	180,624	1,947	3,115	23,880
Indiana.....	76	20	2,180	8,926	1,470	3,251	5,787	24,072	68,708	92,780	1,556	1,862	11,408
Illinois.....	116	36	3,912	15,786	2,653	5,458	9,858	64,588	151,677	216,265	1,266	5,407	36,202
Michigan.....	50	6	615	1,826	495	1,048	1,305	3,830	9,785	13,616	373	518	(D)
Wisconsin.....	61	12	1,006	3,919	701	1,554	2,303	8,585	30,700	39,286	556	739	(D)
West North Central.....	493	136	12,548	47,318	8,663	19,570	29,708	122,062	384,914	506,976	10,392	10,061	76,118
Minnesota.....	82	23	2,599	10,385	1,925	4,559	6,698	24,006	72,466	96,472	2,393	1,747	16,112
Iowa.....	142	44	3,510	13,194	2,016	4,214	6,506	33,242	93,489	126,731	2,206	2,091	17,581
Missouri.....	92	24	2,956	10,452	2,083	4,437	7,136	30,832	122,079	152,912	2,396	2,725	22,188
South Dakota.....	11	2	173	770	107	237	334	1,359	4,623	5,983	101	141	(D)
Nebraska.....	95	25	2,107	7,942	1,638	3,960	5,803	23,250	63,407	86,657	2,594	1,441	(D)
South Atlantic.....	313	98	7,513	23,502	5,111	11,360	13,201	54,620	259,517	314,137	6,214	5,732	33,570
Delaware.....	12	8	750	3,179	505	1,019	1,866	10,702	47,426	58,128	2,729	324	(D)
Maryland.....	29	13	766	2,598	530	1,174	1,556	4,600	28,749	33,349	621	657	(D)
Virginia.....	49	15	1,021	3,110	643	1,450	1,563	6,882	34,906	41,789	693	1,095	5,813
North Carolina.....	94	20	1,838	5,154	1,227	2,802	2,892	13,398	63,318	76,716	728	1,395	8,227
South Carolina.....	23	6	570	1,655	407	884	854	3,501	12,696	16,198	233	314	1,692
Georgia.....	72	21	1,689	4,978	1,258	2,793	3,050	11,821	55,646	67,467	917	915	5,495
Florida.....	28	12	761	2,514	480	1,108	1,309	3,576	14,716	18,292	241	791	(D)
East South Central.....	175	47	4,570	14,878	3,290	7,470	9,520	39,926	173,142	213,068	1,682	4,173	27,345
Kentucky.....	46	14	859	2,668	641	1,463	1,820	4,934	33,753	38,687	347	584	3,341
Tennessee.....	60	19	1,934	6,616	1,348	2,951	3,960	20,457	82,292	102,750	552	2,124	15,534
Alabama.....	35	7	1,063	3,551	774	1,976	2,424	7,651	35,813	43,464	236	917	4,704
Mississippi.....	34	7	713	2,043	526	1,078	1,315	6,883	21,283	28,167	546	548	3,766
West South Central.....	232	88	6,766	22,414	4,565	10,596	12,646	49,474	193,726	243,174	3,929	5,175	28,664
Arkansas.....	34	14	858	2,534	607	1,391	1,504	5,320	30,914	36,235	471	594	3,244
Texas.....	131	51	4,183	14,101	2,736	6,421	7,889	31,589	116,546	148,110	2,637	3,225	18,591

See footnotes at end of table.

Table 2.—GENERAL STATISTICS BY REGIONS AND STATES: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Industry, region, and State <sup>1</sup>	1954											1947	
	Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
	Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
Prepared animal feeds, etc.—Continued:													
Mountain.....	116	27	1,873	6,458	1,318	2,968	4,108	14,172	41,534	55,707	(D)	1,758	12,511
Colorado.....	49	9	688	2,164	539	1,257	1,588	5,276	13,187	18,464	721	705	(D)
New Mexico.....	13	3	249	791	164	359	497	1,863	5,437	7,300	284	117	908
Pacific.....	247	85	6,525	28,225	4,370	9,167	17,152	72,949	238,717	311,667	3,183	6,452	47,262
Washington.....	31	9	719	2,964	530	1,089	2,041	8,606	32,303	40,910	498	749	(D)
Oregon.....	37	15	860	3,577	580	1,259	2,293	6,762	25,724	32,487	307	875	(D)
California.....	179	61	4,945	21,683	3,259	6,818	12,816	57,579	180,689	238,270	2,377	4,828	37,711
Cereal preparations (S.I.C. 2043), total.	46	27	11,534	51,002	9,149	18,211	38,062	172,283	173,559	345,843	4,403	11,276	130,188
Northeast.....	11	7	1,163	4,554	991	2,040	3,681	11,751	9,096	20,847	435	2,014	22,533
New York.....	4	3	821	3,363	727	1,485	2,883	8,465	6,428	14,893	379	1,543	(D)
East North Central.....	11	9	7,142	32,616	5,598	10,884	24,201	112,552	89,174	201,727	3,170	6,670	79,743
Michigan.....	7	6	6,079	27,569	4,825	9,272	20,548	96,990	67,105	164,095	2,923	4,768	(D)
West North Central.....	15	9	2,811	12,084	2,212	4,581	8,765	40,904	69,924	110,829	717	2,275	24,477
Minnesota.....	4	3	264	1,130	164	327	546	6,335	5,690	12,025	49	257	(D)
West.....	9	2	416	1,746	347	706	1,413	7,075	5,363	12,438	80	215	2,286
Rice milling (S.I.C.—2044), total.....	80	58	3,964	13,367	3,129	7,145	8,397	42,359	224,502	266,861	3,538	4,072	43,432
South.....	72	51	3,458	11,015	2,722	6,280	6,834	33,100	166,697	199,797	3,072	3,628	34,461
Louisiana.....	40	25	1,349	3,750	1,113	2,547	2,566	15,501	62,950	78,452	889	1,772	14,267
Texas.....	16	13	1,304	4,765	1,001	2,269	2,759	8,554	55,209	63,763	1,073	1,078	14,017
Pacific.....	8	7	505	2,352	406	864	1,562	9,259	57,805	67,064	465	444	8,971
California.....	8	7	505	2,352	406	864	1,562	9,259	57,805	67,064	465	444	8,971
Flour mixes (S.I.C. 2045), total.....	131	34	5,585	25,446	4,366	8,834	16,982	103,134	151,001	254,136	5,353	3,120	24,249
New England.....	7	3	152	564	111	222	345	1,860	2,634	4,495	48	(D)	(D)
Middle Atlantic.....	22	6	1,731	8,534	1,340	2,881	5,906	29,900	45,016	74,917	1,360	(D)	(D)
New York.....	16	4	1,426	7,413	1,143	2,489	5,368	25,374	39,447	64,821	1,304	1,006	(D)
East North Central.....	32	10	2,202	10,268	1,726	3,499	6,846	43,502	57,622	101,124	2,562	457	4,604
Illinois.....	17	7	1,533	7,609	1,208	2,407	4,892	31,511	35,953	67,464	631	382	(D)
Michigan.....	9	1	100	403	63	133	197	976	2,779	3,755	47	(D)	(D)
West North Central.....	17	5	436	1,585	369	564	944	7,898	11,490	19,389	314	99	1,159
Minnesota.....	4	1	28	100	25	47	77	128	771	899	10	(D)	(D)
South.....	26	2	238	682	176	340	362	1,314	5,779	7,094	352	829	4,412
North Carolina.....	4	1	52	196	39	63	72	440	799	1,240	(D)	11	(D)
Texas.....	5	...	33	136	20	43	43	256	397	653	10	158	802
West.....	27	8	823	3,812	642	1,326	2,578	18,657	28,457	47,115	715	(D)	(D)
Oregon.....	4	...	27	68	24	40	55	277	426	704	9	...	...

Note: Detailed figures may not add to the totals because of independent rounding.

<sup>1</sup> Withheld to avoid disclosing figures for individual companies.<sup>2</sup> General statistics for some producing States are not shown separately in the table (See INTRODUCTION "Confidentiality of Data for Individual Companies"). Such States are shown below with the number of establishments in each State for 1954 and, in parentheses, the number of employees or the employment-size range for that State for 1954:

S.I.C. 2041, Flour and Meal: Northeast—New Hampshire, 1 (20-99); Rhode Island, 2 (1-19); Connecticut, 1 (1-19); New Jersey, 1 (20-99); East North Central—Indiana, 33 (1,220); Illinois, 26 (2,500-4,999); Wisconsin, 12 (250-499); West North Central—North Dakota, 4 (100-249); South Dakota, 3 (100-249); South Atlantic—District of Columbia, 1 (20-99); Virginia, 69 (500-999); West Virginia, 4 (20-99); South Carolina, 20 (100-249);

Georgia, 28 (250-499); Florida, 3 (20-99); East South Central—Tennessee, 64 (1,000-2,499); Mississippi, 3 (1-19); West South Central—Arkansas, 3 (1-19); Louisiana, 2 (20-99); Oklahoma, 16 (500-999); Mountain—Wyoming, 2 (20-99); New Mexico, 4 (20-99); Arizona, 1 (20-99); Nevada, 1 (1-19).

S.I.C. 2042, Prepared Animal Feeds: New England—New Hampshire, 4 (20-99); Vermont, 9 (500-999); Rhode Island, 2 (20-99); Connecticut, 4 (100-249); West North Central—North Dakota, 3 (1-19); Kansas, 68 (1,000-2,499); South Atlantic—District of Columbia, 1 (1-19); West Virginia, 5 (100-249);

West South Central—Louisiana, 24 (500-999); Oklahoma, 43 (500-999); Mountain—Montana, 6 (100-249); Idaho, 12 (100-249); Arizona, 18 (250-499); Utah, 17 (100-249); Nevada, 1 (1-19).

S.I.C. 2043, Cereal Preparations: Northeast—Vermont, 1 (20-99); Massachusetts, 2 (100-249); Middle Atlantic—New Jersey, 1 (20-99); Pennsylvania, 3 (20-99); East North Central—Ohio, 1 (500-999); Indiana, 2 (100-249); Illinois, 1 (1-19); West North Central—Iowa, 3 (1,000-2,499); Missouri, 4 (500-999); Nebraska, 2 (250-499); Kansas, 2 (1-19); West—Montana, 1 (1-19); Washington, 2 (20-99); California, 6 (250-499).

S.I.C. 2044, Rice Milling: South—Tennessee, 1 (20-99); Arkansas, 15 (500-999).

S.I.C. 2045, Flour Mixes: New England—Massachusetts, 3 (20-99); Rhode Island, 1 (1-19); Connecticut, 3 (20-99); Middle Atlantic—New Jersey, 3 (100-249); Pennsylvania, 3 (100-249); East North Central—Ohio, 4 (500-999); Indiana, 1 (1-19); Wisconsin, 1 (1-19); West North Central—Iowa, 1 (1-19); Missouri, 7 (100-249); Nebraska, 5 (250-499); South—Virginia, 1 (1-19); West Virginia, 1 (1-19); South Carolina, 1 (1-19); Georgia, 1 (1-19); Florida, 4 (1-19); Tennessee, 6 (20-99); Mississippi, 1 (1-19); Louisiana, 2 (1-19); West—Idaho, 2 (1-19); Utah, 1 (20-99); Washington, 3 (20-99); California, 17 (500-999).

## GRAIN-MILL PRODUCTS

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Table 3.—DETAILED STATISTICS FOR THE UNITED STATES: 1954  
(For explanation of line captions see Introduction)

Item	Flour and meal (S.I.C. 2041) all establishments	Prepared animal feeds (S.I.C. 2042) all establishments	Cereal breakfast foods (S.I.C. 2043)	
			All establishments	Establishments with 90% or more primary product specialization
Primary product specialization ratio <sup>1</sup> .....	94	95	77	xxx
Coverage ratio <sup>2</sup> .....	84	90	80	xxx
Number of establishments, total.....	803	2,292	46	31
With 1-19 employees.....	543	1,607	19	15
With 20-99 employees.....	175	544	13	9
With 100 employees and over.....	85	141	14	7
All employees:				
Number (average for year).....	28,969	59,890	11,534	7,284
Payroll.....\$1,000..	119,844	225,199	51,002	32,779
Production workers:				
Number (average for year).....	21,447	41,290	9,149	5,692
Man-hours.....1,000..	47,919	91,220	18,211	11,089
Wages.....\$1,000..	83,813	138,520	38,062	23,802
Value added by manufacture.....do...	315,143	584,135	172,283	116,841
Cost of materials, etc.....do...	1,543,745	2,118,132	173,559	83,246
Value of shipments.....do...	1,858,888	2,702,267	345,843	200,088
Value added by resales.....do...	15,088	42,696	5,439	33
Cost of products bought and resold.....do...	128,251	236,471	14,445	68
Sales of products bought and resold.....do...	143,339	279,168	19,885	101
Total inventories, beginning of year.....do...	219,098	185,993	33,678	19,473
Total inventories, end of year.....do...	237,356	187,854	32,328	19,970
Capital expenditures, new.....do...	15,240	36,812	4,403	3,067
Number of employees for selected months:				
March.....	28,673	57,870	11,491	7,279
May.....	28,091	60,755	11,506	7,392
August.....	29,407	61,459	11,936	7,427
November.....	29,703	59,474	11,204	7,042
Cost of materials, fuel, electricity and contract work,				
total.....\$1,000..	1,543,745	2,118,132	173,559	...
Materials, parts, containers, and supplies consumed.....do...	1,531,792	2,096,383	170,458	81,264
Fuels consumed, total.....do...	2,258	7,875	1,513	1,139
Bituminous coal and anthracite:				
Quantity.....1,000 short tons..	113	135	65	(NA)
Value.....\$1,000..	783	1,120	541	(NA)
Coke:				
Quantity.....1,000 short tons..	( <sup>3</sup> )	( <sup>3</sup> )	...	...
Value.....\$1,000..	6	17	...	...
Fuel oil:				
Quantity.....1,000 barrels..	166	588	52	...
Value.....\$1,000..	642	2,205	207	...
Gas:				
Quantity.....million cubic feet..	1,585	10,000	1,701	...
Value.....\$1,000..	508	3,050	740	...
Other fuels:				
Value.....do...	319	1,483	25	(NA)
Electric energy:				
Purchased:				
Quantity.....million kwh..	877	750	135	68
Cost.....\$1,000..	9,190	10,945	1,495	787
Generated.....million kwh..	28	6	40	40
Sold:				
Quantity.....million kwh..	...	1	3	3
Value.....\$1,000..	...	5	26	26
Cost of contract work.....do...	505	2,929	89	53
Manufacturers' inventories:				
Beginning of year, total.....do...	219,098	185,994	33,678	19,473
Finished products.....do...	45,715	57,977	8,480	5,694
Work-in-process.....do...	3,120	5,966	1,008	984
Materials, supplies, fuel, etc.....do...	170,262	122,051	24,189	12,795
End of year, total.....do...	237,356	187,854	32,328	19,970
Finished products.....do...	45,320	60,074	7,776	5,383
Work-in-process.....do...	3,918	7,001	1,161	1,137
Materials, supplies, fuel, etc.....do...	188,118	120,779	23,390	13,450
Expenditures for plant and equipment, total.....do...	15,962	40,392	4,461	3,116
Capital expenditures, new.....do...	15,253	36,841	4,403	3,067
New structures and additions to plant.....do...	6,278	13,429	627	( <sup>4</sup> )
New machinery and equipment.....do...	8,975	23,411	3,776	2,598
Expenditures for used plant and equipment.....do...	708	3,551	( <sup>4</sup> )	( <sup>4</sup> )
Horsepower rating of power equipment at end of 1954:				
Horsepower of prime movers and electric motors driven by				
purchased energy, total.....1,000 hp..	394	692	87	45
Engines, etc. driving electric generators.....do...	26	23	8	8
Engines, etc. not driving electric generators.....do...	12	33	( <sup>5</sup> )	( <sup>5</sup> )
Electric motors driven by purchased energy.....do...	356	636	79	37
Electric motors driven by energy generated at the				
establishment.....do...	12	3	20	20

See footnotes at end of table.



## MANUFACTURES—INDUSTRY STATISTICS

Table 3.—DETAILED STATISTICS FOR THE UNITED STATES: 1954—Continued

(For explanation of line captions see Introduction)

Item	Rice milling (S.I.C. 2044) all establishments	Flour mixes (S.I.C. 2045)	
		All establishments	Establishments with 90% or more primary product specialization
Primary products specialization ratio <sup>1</sup> .....	99	71	xxx
Coverage ratio <sup>2</sup> .....	100	45	xxx
Number of establishments, total.....	80	131	90
With 1-19 employees.....	22	97	72
With 20-99 employees.....	51	21	12
With 100 employees and over.....	7	13	6
All employees:			
Number (average for year).....	3,964	5,585	2,190
Payroll.....\$1,000..	13,367	25,446	8,579
Production workers:			
Number (average for year).....	3,129	4,366	1,666
Man-hours.....1,000..	7,145	8,834	3,131
Wages.....\$1,000..	8,397	16,982	5,168
Value added by manufacture.....do...	42,359	103,134	34,875
Cost of materials, etc.....do...	224,502	151,001	57,776
Value of shipments.....do...	266,861	254,136	92,651
Value added by resales.....do...	127	2,386	570
Cost of products bought and resold.....do...	6,782	10,653	2,563
Sales of products bought and resold.....do...	6,909	13,039	3,133
Total inventories, beginning of year.....do...	80,319	20,638	9,426
Total inventories, end of year.....do...	79,647	21,996	9,161
Capital expenditures, new.....do...	3,538	5,353	2,944
Total employment, by month:			
January.....	4,003	(NA)	(NA)
February.....	3,885	(NA)	(NA)
March.....	3,615	5,416	2,202
April.....	3,387	(NA)	(NA)
May.....	3,391	5,396	2,063
June.....	3,385	(NA)	(NA)
July.....	3,633	(NA)	(NA)
August.....	4,510	5,744	2,140
September.....	4,801	(NA)	(NA)
October.....	4,949	(NA)	(NA)
November.....	4,241	5,785	2,347
December.....	3,762	(NA)	(NA)
Cost of materials, fuel, electricity and contract work, total.....\$1,000..	224,502	151,001	57,776
Materials, parts, containers, and supplies consumed.....do...	223,465	149,883	57,327
Fuels consumed, total.....do...	271	376	95
Bituminous coal and anthracite:			
Quantity.....1,000 short tons..	( <sup>3</sup> )	20	(NA)
Value.....\$1,000..	1	153	(NA)
Coke:			
Quantity.....1,000 short tons..	( <sup>3</sup> )	( <sup>3</sup> )	(NA)
Value.....\$1,000..	4	2	(NA)
Fuel oil:			
Quantity.....1,000 barrels..	9	39	(NA)
Value.....\$1,000..	44	123	(NA)
Gas:			
Quantity.....million cubic feet..	890	209	(NA)
Value.....\$1,000..	215	89	(NA)
Other fuels:			
Value.....do...	7	9	(NA)
Electric energy:			
Purchased:			
Quantity.....million kwh..	57	50	12
Cost.....\$1,000..	727	556	174
Cost of contract work.....do...	39	187	180
Manufacturers' inventories:			
Beginning of year, total.....do...	80,319	20,638	9,426
Finished products.....do...	41,989	7,879	4,872
Work-in-process.....do...	1,670	( <sup>4</sup> )	( <sup>4</sup> )
Materials, supplies, fuel, etc.....do...	36,659	12,451	4,467
End of year, total.....do...	79,647	21,996	9,161
Finished products.....do...	42,968	8,465	4,510
Work-in-process.....do...	2,509	( <sup>4</sup> )	( <sup>4</sup> )
Materials, supplies, fuel, etc.....do...	34,169	13,197	4,542
Expenditures for plant and equipment, total.....do...	3,539	6,335	3,839
Capital expenditures, new.....do...	3,538	5,353	2,944
New structures and additions to plant.....do...	1,605	1,452	756
New machinery and equipment.....do...	1,932	3,901	2,188
Expenditures for used plant and equipment.....do...	( <sup>4</sup> )	982	894
Horsepower rating of power equipment at end of 1954:			
Horsepower of prime movers and electric motors driven by pur-			
chased energy, total.....1,000 hp..	58	25	7
Engines, etc. driving electric generators.....do...	5	( <sup>5</sup> )	...
Engines, etc. not driving electric generators.....do...	7	1	( <sup>5</sup> )
Electric motors driven by purchased energy.....do...	46	24	7
Electric motors driven by energy generated at the establishment.....do...	1	( <sup>5</sup> )	...

Note: Detailed figures may not add to the totals because of independent rounding. NA Not available. xxx Not applicable.

<sup>1</sup>The specialization ratio compares the given industry's shipments of its primary products to its total shipments of all products. (The primary products are listed in Tables 5B and 6A; the first 4-digits of the product code represent the industry code to which the product is primary.) Columns containing totals for establishments with 90% or more primary product specialization are shown only for those industries having a primary product specialization of less than 90%. <sup>2</sup>The coverage ratio measures the extent to which the total shipments of products primary to the given industry are shipped by establishments classified in that industry. <sup>3</sup>Less than 500 tons. <sup>4</sup>Less than \$500 thousand. <sup>5</sup>Less than 500 hp.

## GRAIN-MILL PRODUCTS

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Table 4.—SELECTED STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR THE UNITED STATES: 1954

(Value figures in thousands of dollars. For explanation of line captions see Introduction. Data which cannot be shown without disclosing information for individual companies have been combined with figures for other size classes. A (D) appears in the column where the figure has been omitted and the combined figure is underlined and shown in the size-class to the left)

Ind. code	Industry and item	Total, all establishments	Establishments with an average of—									
			1-4 employees	5-9 employees	10-19 employees	20-49 employees	50-99 employees	100-249 employees	250-499 employees	500-999 employees	1,000-2,499 employees	2,500 employees and over
2041	Flour and meal:											
	Number of establishments..	803	301	135	107	102	73	71	9	4	1	...
	Number of employees.....	28,969	722	961	1,525	3,342	5,116	10,889	2,892	<u>3,518</u>	(D)	...
	Value added by manufacture	315,143	4,532	5,043	8,296	26,209	57,047	126,564	35,144	<u>52,306</u>	(D)	...
2042	Prepared animal feeds:											
	Number of establishments..	2,292	720	453	434	379	165	118	22	1	...	...
	Number of employees.....	59,890	1,959	3,199	6,320	11,790	11,253	17,528	<u>7,838</u>	(D)	...	...
	Value added by manufacture	584,135	14,001	19,926	42,125	94,781	98,292	223,900	<u>91,108</u>	(D)	...	...
2043	Cereal preparations:											
	Number of establishments..	46	10	6	3	9	4	5	3	3	2	1
	Number of employees.....	11,534	23	49	40	307	268	902	3,114	(D)	<u>6,828</u>	(D)
	Value added by manufacture	172,283	99	265	438	3,964	2,952	<u>13,074</u>	<u>40,431</u>	(D)	<u>111,058</u>	(D)
2044	Rice milling:											
	Number of establishments..	80	11	4	7	27	24	6	1	...	...	...
	Number of employees.....	3,964	22	22	117	907	1,593	<u>1,300</u>	(D)	...	...	...
	Value added by manufacture	42,359	178	287	777	10,163	17,770	<u>13,181</u>	(D)	...	...	...
2045	Flour mixes:											
	Number of establishments..	131	55	21	21	12	9	8	3	2	...	...
	Number of employees.....	5,585	137	148	290	456	659	<u>3,893</u>	(D)	(D)	...	...
	Value added by manufacture	103,134	1,272	1,187	1,965	5,519	10,303	<u>82,885</u>	(D)	(D)	...	...

Note: Detailed figures may not add to the totals because of independent rounding.

## MANUFACTURES—INDUSTRY STATISTICS

Table 5A.—INDUSTRY-PRODUCT ANALYSIS—SUMMARY OF INDUSTRY AND PRIMARY PRODUCT SHIPMENTS, SPECIALIZATION RATIOS AND COVERAGE RATIOS  
FOR THE UNITED STATES: 1954 AND 1947

Industry code	Industry and census year	Value of shipments					Value of primary products shipped			
		Total	Primary products	Secondary products	Miscel- laneous receipts	Primary product speciali- zation ratio <sup>1</sup>	Total (made in all industries)	Made in this industry	Made in other industries	Coverage ratio <sup>2</sup>
		(\$1,000) (A)	(\$1,000) (B)	(\$1,000) (C)	(\$1,000) (D)	Col. B Col. A (Percent) (E)	(\$1,000) (F)	(\$1,000) (G)	(\$1,000) (H)	Col. G Col. F (Percent) (I)
2041	Flour and meal.....1954..	1,858,888	<sup>3</sup> 1,733,739	118,662	6,487	94	<sup>3</sup> 2,056,224	<sup>3</sup> 1,733,739	<sup>3</sup> 322,485	84
	1947..	2,526,646	2,308,664	203,504	14,478	92	2,509,336	2,308,664	200,672	92
2042	Prepared animal feeds.....1954..	2,702,267	2,545,521	125,098	31,648	95	2,843,114	2,545,521	297,593	90
	1947..	2,112,241	1,968,478	114,138	29,625	95	2,213,471	1,968,478	244,993	89
2043	Cereal breakfast foods.....1954..	345,843	264,751	80,365	727	77	330,970	264,751	66,219	80
	1947..	284,666	193,917	89,891	858	68	221,758	193,917	27,841	87
2044	Rice milling.....1954..	266,861	264,750	207	1,904	99	264,750	264,750	...	100
	1947..	224,741	224,162	...	579	100	224,162	224,162	...	100
2045	Flour mixes.....1954..	254,136	179,720	74,217	199	71	402,643	179,720	222,923	45
	1947..	78,442	61,437	13,947	3,058	81	363,999	61,437	302,562	17

<sup>1</sup>The specialization ratio compares the given industry's shipments of its primary products to its total shipments of all products. (The primary products are listed in Tables 5B and 6A; the first 4-digits of the product code represent the industry code to which the product is primary.)

<sup>2</sup>The coverage ratio measures the extent to which the total shipments of products primary to the given industry are shipped by establishments classified in that industry.

<sup>3</sup>Includes prepared flour and flour mixes which are primary both to Industry 2041 and Industry 2045.



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Table 5B.—INDUSTRY-PRODUCT ANALYSIS—SHIPMENTS BY PRODUCT CLASS AND INDUSTRY, FOR THE UNITED STATES: 1954

(In thousands of dollars. Each column shows for the industry listed in the column heading, the value of shipments divided between grain-mill products, other products, and miscellaneous receipts. Each figure represents the amount of the product class shown at the left shipped by the industry listed at the top of the column. The first four digits of the product class codes at the left represent the codes of the industries to which they are primary. However, product class 20450 is primary to Industry 2041 as well as to Industry 2045. All other product classes in a column represent products secondary to the specified industry)

Prod. class code	Class of products and miscellaneous receipts	Flour and meal (S.I.C. 2041)	Prepared animal feeds (S.I.C. 2042)	Cereal breakfast foods (S.I.C. 2043)	Rice milling (S.I.C. 2044)	Flour mixes (S.I.C. 2045)	Meat packing, plants (S.I.C. 2011)	Canned fruits and vegetables (S.I.C. 2033)	Soybean oil mills (S.I.C. 2883)	Other industries	All industries
	Total industry shipments.....	1,858,888	2,702,267	345,843	266,861	254,136	xxx	xxx	xxx	xxx	xxx
	Grain-mill products.....	1,847,272	2,633,678	340,679	264,957	230,004	56,344	9,461	67,087	45,576	5,495,058
20411	Wheat flour, except blended or prepared.....	1,228,382	34,127	(D)	...	(D)	...	...	...	838	1,270,709
20412	Wheat bran, shorts, and middlings.....	189,345	5,536	( <sup>1</sup> )	...	133	...	...	...	...	195,065
20413	Dry corn milling products.....	33,743	19,388	(D)	...	( <sup>1</sup> )	...	...	(D)	(D)	64,194
20414	Grain-mill products, n.e.c.....	88,219	9,146	15,242	...	( <sup>1</sup> )	...	...	(D)	(D)	123,613
20421	Poultry feeds.....	61,315	1,324,721	(D)	146	(D)	...	...	23,473	3,499	1,428,707
20422	Livestock feeds.....	37,130	786,279	(D)	( <sup>1</sup> )	174	(D)	...	23,805	7,947	865,605
20423	Dog and cat food.....	1,391	160,947	(D)	...	(D)	55,680	857	(D)	7,421	241,505
20424	Other prepared animal feeds.....	7,621	222,045	2,380	...	(D)	(D)	2,140	867	16,975	252,640
20420	Prepared animal feeds, not specified by kind.....	2,149	51,529	...	...	...	...	...	...	979	54,657
20430	Cereal breakfast foods.....	3,927	9,602	264,751	...	(D)	...	(D)	...	1,202	330,970
20440	Milled rice and byproducts.....	...	...	...	264,750	...	...	...	...	...	264,750
20450	Blended and prepared flour.....	194,050	10,358	13,307	...	179,720	...	(D)	...	(D)	402,643
	Other products.....	5,129	36,941	4,437	...	23,933	xxx	xxx	xxx	xxx	xxx
20150	Dressed poultry.....	( <sup>1</sup> )	3,945	...	...	...	xxx	xxx	xxx	xxx	xxx
20944	Corn oil.....	2,647	567	(D)	...	...	xxx	xxx	xxx	xxx	xxx
20997	Other food preparations, including mincemeat.....	(D)	(D)	(D)	...	7,724	xxx	xxx	xxx	xxx	xxx
28332	Inorganic and organic medicinals, un compounded, bulk.....	( <sup>1</sup> )	4,698	...	...	...	xxx	xxx	xxx	xxx	xxx
28711	Mixed fertilizers, complete and incomplete.....	( <sup>1</sup> )	2,744	...	...	...	xxx	xxx	xxx	xxx	xxx
28830	Soybean oil mill products.....	( <sup>1</sup> )	4,053	...	...	...	xxx	xxx	xxx	xxx	xxx
28861	Grease and tallow.....	...	(D)	...	...	...	xxx	xxx	xxx	xxx	xxx
28862	Feed and fertilizer byproducts.....	...	2,029	...	...	...	xxx	xxx	xxx	xxx	xxx
	Other secondary products.....	1,590	12,184	3,237	...	<sup>2</sup> 16,209	xxx	xxx	xxx	xxx	xxx
	Miscellaneous receipts.....	6,487	31,648	727	1,904	199	xxx	xxx	xxx	xxx	xxx
	Custom milling and other commission work.....	5,949	21,753	...	905	...	xxx	xxx	xxx	xxx	xxx
	Shell egg sales.....	...	5,062	...	...	...	xxx	xxx	xxx	xxx	xxx
	Other miscellaneous receipts.....	538	4,833	727	995	199	xxx	xxx	xxx	xxx	xxx

xxx Not applicable.

D Withheld to avoid disclosing information for individual companies.

<sup>1</sup>Less than \$100,000.<sup>2</sup>Of this figure, 45 to 50 percent consists of "Other flavoring sirups and concentrates," product code 20954.

Table 6A.--QUANTITY AND VALUE OF PRODUCTS SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, FOR THE UNITED STATES: 1954 AND 1947

Product code	Product	Unit of quantity	1954			1947		
			Production for all purposes (quantity)	Total shipments including interplant transfers		Production for all purposes (quantity)	Total shipments including interplant transfers	
				Quantity	Value (\$1,000)		Quantity	Value (\$1,000)
2041--- and 2045---	Flour and flour mill products, blended and prepared flour and flour mixes, total.....	.....	xxx	xxx	2,056,224	xxx	xxx	2,509,336
2041---	Flour and meal, total.....	.....	xxx	xxx	1,653,581	xxx	xxx	2,145,337
20411	Wheat flour except blended or prepared.....	Thousand sacks (cwt.)	221,405	212,564	1,270,709	305,499	271,404	1,598,178
2041111	White:							
2041115	Enriched.....	...do.....	60,982	56,422	359,080	} (NA)	254,318	1,501,146
	Plain.....	...do.....	144,731	140,493	809,831			
2041131	Whole wheat.....	...do.....	3,474	3,463	19,597	(NA)	4,714	26,614
2041151	Durum flour and semolina.....	...do.....	7,528	7,560	53,236	(NA)	9,164	50,928
2041198	Other wheat flour, including farina.....	...do.....	4,687	4,625	28,965	(NA)	3,208	19,490
2041211	Wheat bran, shorts, and middlings.....	Thousand tons	4,440	4,124	195,065	5,913	5,285	320,580
20413	Dry corn milling products.....	.....	xxx	xxx	64,194	xxx	xxx	65,694
	Corn meal for human consumption:							
2041311	Whole corn meal.....	Thousand sacks (cwt.)	(NA)	16,783	132,434	(NA)	5,997	33,628
2041315	Degermed corn meal.....	...do.....	(NA)	5,357	31,760	(NA)	5,841	32,066
2041351	Corn meal for animal feed.....	...do.....	(NA)	(1)	(1)	(NA)	(1)	(1)
20414	Other grain-mill products, except wheat flour and blends.....	.....	xxx	xxx	123,613	xxx	xxx	129,280
2041411	Rye flour.....	Thousand sacks (cwt.)	2,262	2,148	8,346	1,942	1,930	12,541
2041431	Corn grits and hominy for human consumption....	...do.....	(NA)	4,111	22,296	(NA)	4,841	24,929
2041435	Corn grits and flakes for brewer's use.....	...do.....	(NA)	7,079	31,068	(NA)	6,911	37,509
2041451	Hominy feed and by-products of dry corn milling (for animal feed).....	Thousand tons	(NA)	634	33,972	(NA)	529	36,117
2041471	Oat mill feed and other by-products of oats....	...do.....		316	9,726		237	11,346
2041498	Other grain mill products (rye offal, corn flour, buckwheat flour, etc.).....	.....	xxx	xxx	18,205	xxx	xxx	6,838
2041000	Grain mill products, not specified by kind.....	.....		...	...	xxx	xxx	31,605
			Unit of quantity	Total shipments including interplant transfers				
				1954		1947		
				Quantity	Value (\$1,000)	Quantity	Value (\$1,000)	
2042---	Prepared animal feeds, total <sup>3</sup> .....	.....		xxx	2,843,114	xxx		2,213,471
20421	Poultry feeds.....	Thousand sacks (cwt.)		307,907	1,428,707	234,380	}	1,855,981
2042111	Scratch feeds.....	...do.....		21,073	83,539	35,100		
	Chicken mash and pellets, under 25% protein:							
2042121	Layer and breeder.....	...do.....		97,700	432,172	86,360		
2042123	Starter.....	...do.....		22,735	108,114	19,200		
2042125	Grower.....	...do.....		26,828	121,310	23,460		
2042127	Broiler.....	...do.....		66,272	321,257	30,440		
2042131	Turkey mash and pellets, under 25% protein.....	...do.....		18,685	90,556	10,940		
2042141	Other poultry feeds, under 25% protein.....	...do.....		15,469	64,075	12,240		
	Supplements and concentrates, 25% protein and over:							
2042151	Chicken.....	...do.....		23,256	129,542	}	16,640	
2042155	Turkey.....	...do.....		7,889	40,910			
2042100	Poultry feeds, not specified by kind.....	...do.....		28,000	37,232	(4)		
20422	Livestock feeds.....	...do.....		201,809	865,605	179,900		
2042211	Dairy, under 25% protein.....	...do.....		76,605	302,059	93,280		
2042212	Dairy, 25% protein and over.....	...do.....		16,740	77,400	12,160		
2042221	Beef and range cattle.....	...do.....		30,089	116,360	8,720		
2042231	Pig and hog, under 25% protein.....	...do.....		18,261	85,663	15,420		
2042235	Pig and hog, 25% protein and over.....	...do.....		27,541	153,417	14,140		
2042241	Horse and mule.....	...do.....		6,802	25,127	10,680		
2042298	Other livestock feeds <sup>5</sup> .....	...do.....		16,471	65,849	16,560		
2042200	Livestock feeds, not specified by kind.....	...do.....		29,300	39,730	48,940		

See footnotes at end of table.

## GRAIN-MILL PRODUCTS

20D-13

Table 6A.—QUANTITY AND VALUE OF PRODUCTS SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, FOR THE UNITED STATES: 1954 AND 1947--Continued

Product code	Product	Unit of quantity	Total shipments including interplant transfers			
			1954		1947	
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
2042---	Prepared animal feeds--Continued					
20423	Dog and cat food.....		xxx	241,505	1,107,849	96,359
2042311	Canned.....	Thousand pounds.....	1,459,847	135,424	427,137	38,389
2042351	Biscuit, pellets, and meal.....	...do.....	947,678	95,504	680,712	57,970
2042398	Other (frozen, etc.).....	...do.....	85,568	5,588	(NA)	(NA)
2042300	Dog and cat food, not specified by kind.....		xxx	4,989	xxx	...
20424	Other prepared animal feeds.....		xxx	252,640	xxx	214,102
2042411	Grain ground, rolled, pulverized, chopped or crimped (for general feed use).....	Thousand sacks (cwt.)	26,136	88,926	31,680	6127,000
2042421	Mineral mixtures.....	Thousand pounds.....	424,397	17,753	399,799	18,257
	Alfalfa meal:					
2042431	Sun cured.....	Thousand tons.....	173	6,474	397	15,944
2042435	Dehydrated.....	...do.....	1,108	50,713	723	34,311
2042498	Other prepared animal feeds <sup>7</sup> .....		xxx	76,820	xxx	18,590
2042400	Other prepared animal feeds, not specified by kind.....		xxx	11,954	xxx	xxx
2042000	Prepared animal feeds, not specified by kind.....		xxx	54,657	xxx	47,029
2043---	Cereal breakfast foods, total.....		xxx	330,970	xxx	221,758
	Ready-to serve:					
2043011	Corn flakes and other corn breakfast foods.....	Thousand pounds.....	274,535	67,726	207,360	35,130
2043012	Wheat flakes and other wheat breakfast foods...	...do.....	331,599	80,825	306,632	60,059
2043019	Preparations of other grains and mixed grains..	...do.....	320,025	97,465	199,155	52,945
	To be cooked before serving:					
2043052	Farina and other wheat foods.....	...do.....	140,828	21,762	165,093	19,818
2043053	Rolled oats and oatmeal.....	...do.....	449,785	46,726	504,657	42,919
2043059	Preparations of other grains and mixed grains..	...do.....	88,972	5,685	103,304	6,956
2043098	Other cereal preparations and cereal preparations, not specified by kind <sup>8</sup> .....		xxx	10,781	xxx	3,931
2044---	Rice mill products, total.....		xxx	264,750	xxx	224,162
	Head rice:					
2044011	Packed in 100 pound bags and over.....	Thousand pounds.....	1,773,793	163,752	1,727,500	184,626
2044015	Packed in 3 pound containers or less.....	...do.....	378,975	45,748		
2044017	Packed in all other containers.....	...do.....	114,548	10,973		
2044021	Second heads.....	...do.....	255,653	14,283	234,000	15,972
2044031	Screenings.....	...do.....	129,971	6,543	159,400	9,979
2044041	Brewers rice.....	...do.....	179,227	11,091	89,300	5,227
2044051	Bran.....	...do.....	329,220	5,958	274,900	6,413
2044061	Polish.....	...do.....	21,738	489	22,300	665
2044098	Other rice mill products and rice mill products, not specified by kind.....		xxx	5,913	xxx	1,280
2045---	Prepared flour and flour mixes, total <sup>3</sup> .....		xxx	402,643	xxx	363,999
2045011	Phosphated flour.....	Thousand sacks (cwt.)	5,240	34,151	19,679	119,734
2045031	Self-rising flour.....	...do.....	10,306	70,489	14,994	101,608
2045041	Pancake and waffle mixes.....	...do.....	2,895	34,030	12,701	142,657
2045043	Cake mixes.....	...do.....	5,675	137,389		
2045045	Biscuit mixes.....	...do.....	1,576	23,885		
2045047	Pie crust mixes.....	...do.....	839	18,054		
2045049	Other prepared flour mixes.....	...do.....	5,782	84,645		

xxx Not applicable.

NA Not available.

<sup>1</sup>Code 2041351 has been combined with code 2041311.<sup>2</sup>Estimate based on value.<sup>3</sup>Does not include prepared feeds manufactured in retail and wholesale establishments (see text on industry).<sup>4</sup>Code 2042100 combined with code 2042200 for 1947.<sup>5</sup>Includes rabbit and other small animal feeds (except dog and cat food).<sup>6</sup>Estimate based on tonnage.<sup>7</sup>Includes miscellaneous feed materials not classified elsewhere, such as dried citrus pulp; also feed for birds, fish and other pets (except dog and cat food).<sup>8</sup>Includes cereal coffee substitute.



## MANUFACTURES—INDUSTRY STATISTICS

Table 6B.—VALUE OF PRODUCT CLASSES SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, BY DIVISIONS AND STATES FOR 1954, AND UNITED STATES TOTALS FOR EARLIER YEARS

(In thousands of dollars. Statistics are shown for selected product classes which are economically significant and production of which is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (Table 2) and they are not miscellaneous or "not specified by type" classes. For each product class, States are listed only if the value of shipments is more than \$1 million and the figure does not disclose individual company information. Additional States which had shipments of more than \$1 million of the individual product classes are listed in footnote 1)

Product class, region, and State <sup>1</sup>	Value of shipments	Product class, region, and State <sup>1</sup>	Value of shipments	Product class, region, and State <sup>1</sup>	Value of shipments
<u>Wheat flour, except blended or prepared (20411)</u>		<u>Wheat bran, shorts, and middlings (20412)—Continued</u>		<u>Poultry feeds (20421)—Continued</u>	
1954 United States, total.....	1,270,709	South Atlantic.....	6,104	East North Central.....	262,939
1953 United States, total.....	1,383,724	Maryland.....	1,400	Ohio.....	113,239
1952 United States, total.....	1,371,382	North Carolina.....	2,254	Indiana.....	50,082
1951 United States, total.....	1,376,193	East South Central.....	9,026	Illinois.....	84,610
1950 United States, total.....	1,273,741	Tennessee.....	5,802	Michigan.....	3,020
1947 United States, total.....	1,598,178	West South Central.....	16,752	Wisconsin.....	12,088
1954		Oklahoma.....	7,027	West North Central.....	207,598
Middle Atlantic.....	195,701	Texas.....	9,725	Minnesota.....	38,051
New York.....	183,142	Mountain.....	11,492	Iowa.....	41,682
East North Central.....	184,412	Montana.....	2,196	Missouri.....	82,794
Ohio.....	43,769	Utah.....	3,864	Nebraska.....	18,484
Indiana.....	12,959	Pacific.....	15,176	Kansas.....	21,982
Illinois.....	82,386	Washington.....	5,956	South Atlantic.....	218,536
Michigan.....	29,028	Oregon.....	4,734	Delaware.....	54,008
Wisconsin.....	16,270	California.....	4,485	Maryland.....	23,100
West North Central.....	519,166	Dry corn milling products (20413)		Virginia.....	28,276
Minnesota.....	171,127	1954 United States, total.....	64,194	West Virginia.....	1,477
Missouri.....	108,507	1947 United States, total.....	65,694	North Carolina.....	49,740
Nebraska.....	35,408	1954		South Carolina.....	9,231
Kansas.....	165,943	East North Central.....	9,392	Georgia.....	46,363
South Atlantic.....	17,687	Ohio.....	2,652	Florida.....	5,733
Maryland.....	2,360	Indiana.....	3,525	East South Central.....	137,461
Virginia.....	6,553	Illinois.....	2,000	Kentucky.....	24,840
North Carolina.....	4,929	West North Central.....	12,741	Tennessee.....	71,717
Georgia.....	2,069	Missouri.....	6,361	Alabama.....	28,954
East South Central.....	30,677	South Atlantic.....	11,815	Mississippi.....	11,949
Tennessee.....	17,045	Virginia.....	1,934	West South Central.....	109,205
West South Central.....	108,419	North Carolina.....	3,623	Arkansas.....	15,489
Oklahoma.....	40,651	Georgia.....	2,264	Louisiana.....	8,938
Texas.....	67,768	East South Central.....	16,280	Oklahoma.....	14,865
Mountain.....	80,890	Kentucky.....	3,535	Texas.....	69,912
Montana.....	19,097	Tennessee.....	6,586	Mountain.....	22,145
Utah.....	27,313	Alabama.....	5,632	Idaho.....	2,433
Pacific.....	133,757	West South Central.....	9,524	Colorado.....	5,558
Washington.....	60,409	Louisiana.....	1,275	Arizona.....	2,151
Oregon.....	37,649	Texas.....	7,028	Utah.....	10,055
California.....	35,699	Pacific.....	2,313	Pacific.....	173,259
<u>Wheat bran, shorts, and middlings (20412)</u>		<u>Poultry feeds (20421)</u>		Washington.....	28,547
1954 United States, total.....	195,065	1954 United States, total.....	1,428,707	Oregon.....	16,711
1953 United States, total.....	245,443	1954		California.....	128,001
1952 United States, total.....	292,892	New England.....	84,623	<u>Livestock feeds (20422)</u>	
1951 United States, total.....	281,181	New Hampshire.....	5,439	1954 United States, total.....	865,605
1950 United States, total.....	238,955	Vermont.....	54,542	New England.....	
1947 United States, total.....	320,580	Massachusetts.....	21,249	Massachusetts.....	23,543
1954		Connecticut.....	1,310	Vermont.....	16,356
Middle Atlantic.....	30,570	Middle Atlantic.....	212,938	Massachusetts.....	3,674
New York.....	27,899	New York.....	143,924	Middle Atlantic.....	115,781
East North Central.....	32,297	New Jersey.....	15,245	New York.....	80,061
Ohio.....	8,769	Pennsylvania.....	53,769	New Jersey.....	7,615
Illinois.....	14,419			Pennsylvania.....	28,104
Michigan.....	3,643			East North Central.....	208,304
West North Central.....	73,644			Ohio.....	55,328
Minnesota.....	24,484			Indiana.....	38,350
Nebraska.....	5,153			Illinois.....	98,784
Kansas.....	23,185			Michigan.....	2,049
				Wisconsin.....	13,793

See footnotes at end of table.

## GRAIN-MILL PRODUCTS

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Table 6B.--VALUE OF PRODUCT CLASSES SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, BY DIVISIONS AND STATES FOR 1954, AND UNITED STATES TOTALS FOR EARLIER YEARS--Continued

Product class, region, and State <sup>1</sup>	Value of shipments	Product class, region, and State <sup>1</sup>	Value of shipments	Product class, region, and State <sup>1</sup>	Value of shipments
<u>Livestock feeds (20422)</u> --Continued		<u>Dog and cat food (20423)</u> --Continued		<u>Other prepared animal feeds (20424)</u> --Continued	
West North Central.....	228,696	South Atlantic.....	6,154	Pacific.....	34,353
Minnesota.....	35,798	North Carolina.....	1,637	Washington.....	4,605
Iowa.....	72,278	East South Central.....	11,933	Oregon.....	3,866
Missouri.....	66,182	Tennessee.....	2,658	California.....	25,882
South Dakota.....	2,250	Alabama.....	3,706		
Nebraska.....	39,671	Mississippi.....	5,255	<u>Cereal breakfast foods (20430)</u>	
Kansas.....	12,427	West South Central.....	11,223	1954 United States, total.....	330,970
South Atlantic.....	68,403	Oklahoma.....	4,186	1953 United States, total.....	327,341
Delaware.....	2,891	Texas.....	6,730	1952 United States, total.....	319,982
Maryland.....	7,123	Mountain.....	4,154	1951 United States, total.....	301,984
Virginia.....	12,102	Pacific.....	36,410	1950 United States, total.....	254,383
North Carolina.....	17,957	Washington.....	3,970	1947 United States, total.....	221,758
South Carolina.....	4,088	Oregon.....	4,220		
Georgia.....	11,209	California.....	28,219	1954	
Florida.....	11,427	<u>Other prepared animal feeds (20424)</u>		Middle Atlantic.....	35,400
East South Central.....	56,274	1954 United States, total.....	252,640	New York.....	31,867
Kentucky.....	8,862	1947 United States, total.....	214,102	East North Central.....	197,607
Tennessee.....	25,903			Michigan.....	157,566
Alabama.....	14,271			West North Central.....	66,663
Mississippi.....	7,237			Iowa.....	33,357
West South Central.....	83,373			Pacific.....	26,950
Arkansas.....	11,552			California.....	25,324
Louisiana.....	6,426			<u>Blended and prepared flour (20450)</u>	
Oklahoma.....	13,537			1954 United States, total.....	402,643
Texas.....	51,857			1947 United States, total.....	363,999
Mountain.....	20,664			1954	
Montana.....	2,566			New England.....	3,823
Colorado.....	4,114			Middle Atlantic.....	50,122
New Mexico.....	2,595			New York.....	41,536
Arizona.....	5,824			New Jersey.....	6,128
Utah.....	2,913			Pennsylvania.....	2,458
Pacific.....	60,567			East North Central.....	148,817
Washington.....	11,902			Ohio.....	35,394
Oregon.....	10,846			Illinois.....	85,064
California.....	37,819			West North Central.....	48,325
<u>Dog and cat food (20423)</u>				Kansas.....	16,858
1954 United States, total.....	241,505			South Atlantic.....	40,892
1951 United States, total.....	177,934			Virginia.....	3,963
1950 United States, total.....	151,836			North Carolina.....	9,603
1947 United States, total.....	96,359			Georgia.....	3,652
1954				East South Central.....	42,398
New England.....	12,138			Kentucky.....	17,644
Middle Atlantic.....	35,158			Tennessee.....	19,519
New York.....	23,931			West South Central.....	26,791
New Jersey.....	5,632			Oklahoma.....	16,620
Pennsylvania.....	5,595			Texas.....	10,117
East North Central.....	99,121			Mountain.....	4,672
Ohio.....	20,667			Pacific.....	36,800
Indiana.....	3,137			Washington.....	3,481
Illinois.....	64,516			Oregon.....	1,312
Michigan.....	9,223			California.....	32,007
Wisconsin.....	1,577				
West North Central.....	25,211				
Minnesota.....	3,727				
Iowa.....	6,245				
Missouri.....	5,464				
Kansas.....	7,632				

Note: The figures shown for 1950 to 1953 are sample estimates obtained from the Annual Survey of Manufactures for those years. Since the estimates are based on a sample they are subject to sampling variability, that is, they are not the same as figures which would have been obtained if complete censuses had been taken for those years. Measures of the sampling variability (standard errors) of the estimated total value of shipments of each product class are shown in the Annual Survey of Manufactures publications. Also shown are the standard errors of the relative change in shipments between some consecutive Annual Survey years which are the more significant measures when the series is studied for trend.

<sup>1</sup>For the specified product classes, shipments of over \$1 million were reported for the States listed but the exact figures are withheld to avoid disclosure of individual company figures: 20411, New Jersey, Pennsylvania, Iowa, North Dakota, South Dakota, Kentucky, Alabama, Idaho, Wyoming, Colorado, and Arizona; 20413, Iowa, Nebraska, and California; 20421, Maine, and South Dakota; 20422, New Hampshire, West Virginia, and Idaho; 20423, Maine, Massachusetts, Nebraska, South Carolina, Montana, and Utah; 20424, Vermont and Montana; 20430, Massachusetts, New Jersey, Pennsylvania, Ohio, Indiana, Illinois, Minnesota, Missouri, Nebraska, and Washington; 20450, Massachusetts, Connecticut, Indiana, Michigan, Iowa, Missouri, Nebraska, South Carolina, Alabama, Mississippi, Colorado, and Utah.

## MANUFACTURES—INDUSTRY STATISTICS

Table 7.—MATERIALS CONSUMED, BY KIND: 1954 AND 1947

Code	Description of materials	Unit of measure	Industry 2041—Flour and Meal—1954		Industry 2042—Prepared Animal Feeds			
			Quantity	Delivered cost (\$1,000)	1954		1947	
					Quantity	Delivered cost (\$1,000)	Quantity	Delivered cost (\$1,000)
	Materials, ingredients, containers, and supplies, total.....		xxx	1,531,792	xxx	2,096,383	xxx	1,700,210
011111	Wheat.....	Thousand bushels	486,045	1,174,829	32,965	70,681	41,384	103,530
011115	Corn.....	do.....	54,320	89,820	205,450	351,283	137,503	292,337
011121	Oats.....	do.....	11,717	10,328	118,163	106,213	112,591	123,981
011125	Barley.....	do.....	3,156	4,064	36,430	46,381	30,553	48,463
011131	Sorghum grain.....	do.....	2,538	4,019	27,102	41,190	16,637	33,445
204111	Wheat flour.....	Cwt.....	2,806,071	15,284	1,697,191	8,174	xxx	(2)
206011	Sugar (cane and beet).....	do.....	1,128,416	9,421	245,904	1,838	xxx	(2)
288011	Fats and oils, all types.....	Thousand pounds.	42,766	8,109	151,429	12,872	xxx	(2)
288111	Cottonseed cake and meal.....	Ton.....	47,688	3,565	782,260	56,125	287,000	24,147
288311	Soybean cake and meal.....	do.....	88,065	8,412	3,549,701	304,605	2,392,000	199,258
288411	Other oil cake and meal.....	do.....	7,502	525	297,118	21,367	364,000	28,813
204121	Corn meal.....	Cwt.....	231,102	1,095	12,269,173	39,589	13,900,000	53,324
204131	Hominy feed and meal.....	Ton.....	11,632	630	414,401	24,335	346,000	25,424
203211	Fish scrap and meal.....	do.....	12,272	1,855	334,500	48,844	187,000	25,647
204141	Corn gluten feed and meal.....	do.....	9,896	696	686,651	45,109	667,000	46,184
204211	Alfalfa meal.....	do.....	48,699	2,382	978,899	56,414	1,019,000	54,776
204151	Mill feed and screenings.....	do.....	156,314	6,569	2,090,856	99,793	2,769,000	163,387
201021	Meat scrap and tankage.....	do.....	24,728	2,518	957,697	93,690	663,000	71,884
208211	Brewers and distillers grains.....	do.....	4,040	230	331,536	20,100	462,000	29,605
283311	Vitamin B-12 and antibiotic supplements.....	do.....	xxx	1,055	xxx	23,501	xxx	(2)
970000	All other materials, ingredients, containers and supplies, including materials, etc., not specified by kind.....		xxx	186,386	xxx	3,624,279	xxx	274,005
							xxx	102,000
					1954			
					Industry 2043—Breakfast Foods	Industry 2044—Rice Milling	Industry 2045—Flour mixes	
011111	Wheat.....	Thousand bushels	xxx	170,458	xxx	223,465	xxx	149,883
011115	Corn.....	do.....	7,880	18,159	xxx	xxx	xxx	xxx
011121	Oats.....	do.....	14,478	25,204	xxx	xxx	xxx	xxx
011125	Barley.....	do.....	29,723	26,285	xxx	xxx	xxx	xxx
011135	Rice, rough.....	Thousand pounds.	1,983	2,845	xxx	xxx	xxx	xxx
204111	Wheat flour.....	Cwt.....	xxx	xxx	4,152,643	204,088	xxx	xxx
206011	Sugar (cane and beet).....	do.....	245,056	1,282	xxx	xxx	5,793,149	32,695
288011	Fats and oils, all types.....	Thousand pounds.	677,997	5,819	xxx	xxx	2,345,701	20,785
204121	Corn meal.....	Cwt.....	xxx	xxx	xxx	xxx	72,756	14,250
970000	All other materials, ingredients, containers and supplies consumed.....		xxx	90,864	xxx	19,377	xxx	81,463

xxx Not applicable.

<sup>1</sup>Data for 1947 are available only for Industry 2042, Prepared Animal Feeds.<sup>2</sup>Included in "All other materials, etc.", code 970000.<sup>3</sup>"Materials, not specified by kind" as distinguished from "all other materials" could not be determined exactly for 1954 but is estimated at \$200 to \$250 million. The corresponding 1947 figure is \$102 million.



## GRAIN-MILL PRODUCTS

20D-17

Table 8.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY INDUSTRY SPECIALIZATION AND PRIMARY PRODUCT CLASS SPECIALIZATION, FOR THE UNITED STATES: 1954

(This table presents selected statistics for establishments classified according to their degree of specialization in products primary to the industry. The establishments are classified in two ways: (1) by industry specialization—the degree of specialization in all primary products of the industry; and (2) by product-class specialization—the degree of specialization in the largest product class of the establishment. The degree of "industry specialization" for an establishment represents the ratio of its primary product shipments to its total product shipments, primary and secondary. The degree of "product-class specialization" for an establishment represents the ratio of its largest product class shipments to its total product shipments, primary and secondary. Data are not shown for some industries, product classes, and specialization ranges for a variety of reasons, consequently, detailed figures frequently do not add to the totals. See Introduction for detailed explanation)

Ind. or product class No.	Industry or product class by percent of specialization	Establishments, number	All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
2041	FLOUR AND MEAL (entire industry).....	803	28,969	119,844	21,447	47,919	83,813	315,143	1,543,745	1,858,888
	Establishments with:									
	90% or more specialization.....	533	20,424	87,801	15,513	34,819	63,409	233,640	1,245,411	1,479,051
	75-89% specialization.....	77	3,154	12,435	2,302	4,923	8,496	32,554	125,843	158,797
	50-74% specialization.....	139	4,418	16,749	2,974	6,726	10,180	41,215	148,702	189,917
	All other <sup>1</sup> .....	54	972	2,858	656	1,450	1,727	7,332	23,789	31,122
20411	Wheat flour, except blended or prepared:									
	All establishments specializing in product class	371	19,958	85,847	14,938	33,566	61,735	221,788	1,263,762	1,485,550
	Establishments with:									
	90% or more specialization.....	39	649	2,665	551	1,271	2,065	8,257	39,019	47,277
	75-89% specialization.....	161	11,749	53,021	9,088	20,636	39,858	128,007	894,439	1,022,447
	50-74% specialization.....	109	5,770	23,696	4,123	9,023	15,807	69,128	266,456	335,585
	Less than 50% specialization.....	62	1,790	6,464	1,176	2,635	4,005	16,393	63,846	80,240
20413	Dry corn milling products:									
	All establishments specializing in product class	127	977	2,411	737	1,509	1,631	3,757	16,595	20,353
	Establishments with:									
	90% or more specialization.....	66	397	992	312	628	710	1,449	5,862	7,312
	75-89% specialization.....	10	82	175	51	97	105	263	883	1,146
	50-74% specialization.....	28	267	689	205	425	480	1,140	6,063	7,204
	Less than 50% specialization.....	23	231	554	167	358	334	903	3,787	4,691
20450	Blended and prepared flour: <sup>2</sup>									
	All establishments specializing in product class	58	4,350	18,212	3,064	7,015	11,757	61,827	144,884	206,711
	Establishments with:									
	75% or more specialization.....	7	959	4,402	573	1,315	2,265	17,100	33,534	50,635
	50-74% specialization.....	30	2,791	11,687	2,099	4,739	8,445	42,223	97,162	139,386
	Less than 50% specialization.....	21	599	2,122	390	960	1,045	2,502	14,187	16,690
2042	PREPARED ANIMAL FEEDS (entire industry).....	2,292	59,890	225,199	41,290	91,220	138,520	584,135	2,118,132	2,702,267
	Establishments with:									
	90% or more specialization.....	1,987	49,804	189,721	34,382	75,753	117,225	507,512	1,854,834	2,362,346
	75-89% specialization.....	110	3,550	12,249	2,501	5,719	7,436	21,069	93,488	114,557
	50-74% specialization.....	139	4,912	16,889	3,266	7,181	10,027	43,245	118,636	161,882
	All other <sup>1</sup> .....	56	1,623	6,330	1,139	2,566	3,829	12,307	51,175	63,482
20421	Poultry feeds:									
	All establishments specializing in product class	678	30,352	120,999	20,596	45,397	74,247	308,921	1,384,178	1,693,099
	Establishments with:									
	90% or more specialization.....	166	3,115	11,804	2,192	4,721	7,133	34,001	151,565	185,566
	75-89% specialization.....	122	5,786	22,298	3,904	8,710	13,651	68,630	316,452	385,083
	50-74% specialization.....	314	17,077	70,708	11,483	24,998	43,517	177,406	757,101	934,507
	Less than 50% specialization.....	76	4,373	16,188	3,015	6,967	9,944	28,882	159,060	187,943
20422	Livestock feeds:									
	All establishments specializing in product class	638	13,416	47,041	8,830	19,120	27,367	127,867	427,024	554,891
	Establishments with:									
	90% or more specialization.....	231	2,650	8,789	1,836	3,837	5,251	19,470	62,853	82,323
	75-89% specialization.....	84	1,825	6,788	1,094	2,340	3,177	11,407	45,754	57,162
	50-74% specialization.....	232	6,370	22,779	4,090	8,926	13,519	78,510	245,361	323,872
	Less than 50% specialization.....	91	2,570	8,684	1,809	4,016	5,419	18,479	73,053	91,533
20423	Dog and cat food:									
	All establishments specializing in product class	164	4,406	16,259	3,233	6,402	10,040	56,417	89,854	146,271
	Establishments with:									
	90% or more specialization.....	138	3,129	11,723	2,313	4,679	7,243	46,744	64,983	111,728
	75-89% specialization.....	10	537	1,831	410	731	1,082	3,636	6,584	10,221
	50-74% specialization.....	9	218	657	182	326	484	1,474	4,773	6,247
	Less than 50% specialization.....	7	521	2,047	326	665	1,229	4,562	13,512	18,075
20424	Other prepared animal feeds:									
	All establishments specializing in product class	473	7,794	27,236	5,900	14,297	18,741	63,391	109,020	172,411
	Establishments with:									
	90% or more specialization.....	360	5,291	18,192	4,135	10,345	12,864	41,262	66,186	107,448
	75-89% specialization.....	31	617	2,164	487	1,069	1,536	4,589	13,796	18,386
	50-74% specialization.....	51	1,327	5,197	923	2,117	3,419	14,748	17,577	32,326
	Less than 50% specialization.....	31	557	1,682	354	764	920	2,791	11,458	14,250
2043	CEREAL PREPARATIONS (entire industry).....	46	11,534	51,002	9,149	18,211	38,062	172,283	173,559	345,843
	Establishments with:									
	90% or more specialization.....	31	7,284	32,779	5,692	11,089	23,802	116,841	83,246	200,088
2045	FLOUR MIXES <sup>3</sup> (entire industry).....	131	5,585	25,446	4,366	8,834	16,982	103,134	151,001	254,136
	Establishments with:									
	90% or more specialization.....	90	2,190	8,579	1,666	3,131	5,168	34,875	57,776	92,651
	50-89% specialization.....	33	2,148	11,171	1,610	3,461	7,110	43,695	63,750	107,447
	All other <sup>1</sup> .....	8	1,247	5,696	1,089	2,241	4,702	24,562	29,474	54,037

<sup>1</sup>This class includes data for establishments with less than 50 percent specialization in the primary products of the industry and establishments engaged exclusively in contract work defined in the industry. Miscellaneous small statistical adjustments are also included.

<sup>2</sup>Represents flour mills in which the primary product is blended and prepared flour.

<sup>3</sup>Represents establishments specializing in the production of blended and prepared flour from purchased flour (including flour transferred from other plants of the same company).

## MANUFACTURES--INDUSTRY STATISTICS

Table 9.--GRAIN BIN STORAGE SPACE IN SELECTED MANUFACTURING INDUSTRIES, BY DIVISIONS AND STATES: 1954

(in thousands of bushels)

Division and State	Grain mill products industries total <sup>1</sup>	Flour and meal, Industry 2041	Prepared animal feeds, Industry 2042
United States, total.....	244,572	142,968	101,604
New England.....	1,277	(D)	(D)
Maine.....	(D)	...	(D)
New Hampshire.....	123	(D)	(D)
Vermont.....	723	...	723
Massachusetts.....	238	...	238
Rhode Island.....	(D)	...	(D)
Connecticut.....	(D)	...	(D)
Middle Atlantic.....	20,414	9,733	10,681
New York.....	16,992	8,113	8,879
New Jersey.....	1,005	(D)	(D)
Pennsylvania.....	2,417	(D)	(D)
East North Central.....	44,599	26,451	18,148
Ohio.....	15,342	8,001	7,341
Indiana.....	6,618	3,095	3,523
Illinois.....	13,982	9,978	4,00
Michigan.....	5,005	2,947	2,058
Wisconsin.....	3,652	2,430	1,222
West North Central.....	85,998	58,963	27,035
Minnesota.....	19,181	17,236	1,945
Iowa.....	14,421	2,440	11,981
Missouri.....	19,258	10,966	8,292
South Dakota.....	166	...	166
Nebraska.....	5,241	3,637	1,604
Kansas.....	27,731	24,684	3,047
South Atlantic.....	11,507	4,024	7,483
Delaware.....	1,575	(D)	(D)
Maryland.....	496	(D)	(D)
Dist. of Columbia.....	(D)	(D)	...
Virginia.....	2,176	1,291	885
West Virginia.....	257	(D)	(D)
North Carolina.....	4,177	1,412	2,765
South Carolina.....	1,059	297	762
Georgia.....	1,272	478	794
Florida.....	266	(D)	(D)
East South Central.....	9,837	6,989	2,848
Kentucky.....	3,880	2,661	1,219
Tennessee.....	4,317	3,020	1,297
Alabama.....	1,434	1,308	126
Mississippi.....	206	...	206
West South Central.....	27,709	14,695	13,014
Arkansas.....	486	...	486
Louisiana.....	360	(D)	(D)
Oklahoma.....	10,963	9,172	1,791
Texas.....	15,900	5,323	10,577
Mountain.....	18,219	13,415	4,804
Montana.....	2,022	(D)	(D)
Idaho.....	1,876	1,660	216
Wyoming.....	(D)	(D)	...
Colorado.....	5,267	(D)	(D)
New Mexico.....	1,468	(D)	(D)
Arizona.....	2,398	(D)	(D)
Utah.....	4,508	(D)	(D)
Pacific.....	25,012	8,648	16,364
Washington.....	6,204	4,035	2,169
Oregon.....	5,807	3,046	2,761
California.....	13,001	1,567	11,434

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>Includes small amounts reported by industries 2043 and 2045 (added to the figures shown for industry 2041). Represents manufacturing establishment storage capacity for small grains other than rice, except capacity in Industry 2094, Corn Wet-Milling and the alcoholic beverage industries (Group 208).







## Bakery Products

This report shows 1954 Census of Manufactures statistics for establishments classified in each of the following industries:

CODE	TITLE
2051--	Bread and Related Products
2052--	Biscuit and Crackers

Statistics from the 1954 Census of Business are also included for the retail trade classification "Bakeries, with baking on premises," code 5462.

2051--Bread and Related Products (Full Standard Industrial Classification Title: Bread and Other Bakery Products, Except Biscuit, Crackers and Pretzels).

This industry comprises establishments primarily engaged in manufacturing bread, cakes, sweet yeast goods, hand-made cookies, doughnuts, pies, pastries, and similar perishable bakery products, for off-premise sale. Establishments primarily engaged in producing "dry" bakery products such as biscuit, crackers, and pretzels are classified in Industry 2052, Biscuit and Crackers. For a detailed list of the primary products of Industry 2051, refer to Table 6A, product codes 2051111 to 2051711.

For 1954, all establishments producing bakery products primarily for direct sale to consumers on the premises were classified in retail trade, Industry 5462, and not in Industry 2051. The definition followed in the 1947 Census differed slightly in that an establishment producing for sale on the premises was included in Industry 2051 if it was part of a chain of such bakeries, but excluded if it was a single-unit bakery. The 1947 statistics have not been revised to reflect this change in definition. Comparability between 1947 and 1954 is not significantly affected for Industry 2051, but the effect on the statistics for the subindustry, "Retail Multi-Outlet Bakeries," is greater. The apparent decreases in the sub-industry from 1947 to 1954 are believed to be due largely to this change in definition.

Subindustries: The Standard Industrial Classification does not provide for separate industry data for the different types of bakeries included in Industry 2051. In order to provide additional detail to reflect the differences among bakeries, i.e., interrelationships of value and type of bakery products shipped, materials used, value added by manufacture, employment, etc., Industry 2051 has been divided into 4 subindustries as follows:

Wholesale Bakeries: Bakeries selling chiefly at wholesale to other business concerns, including grocers, restaurants, hotels, institutions and other establishments buying the products for resale. The principal products of this group of establishments are bread, bread type rolls, and cakes. The values reported are the wholesale selling prices received by the manufacturer.

Grocery Chain Bakeries: Bakeries owned and operated by grocery chain store companies and distributing their product through retail grocery stores owned by the same company. The values reported by this group of establishments are based on a transfer price which is nearly equivalent to the wholesale price.

House-to-house Bakeries: Bakeries selling chiefly through retail house-to-house routes. The values were reported generally at the retail price, although in a few instances, transfers of goods between establishments of some of the larger companies were expressed in terms of wholesale prices.

Retail multi-outlet Bakeries: Retail bakeries selling chiefly through nonbaking outlets operated by the same company. Statistics relating to the retail outlets are not included, except in those cases where one retail unit was at the same location as the bakery and included as a part of the manufacturing establishment. Bakeries operated by restaurant chains are included in this subindustry. The value of products reported is largely based on the retail prices received for the product. However, some of the larger concerns reported a "transfer value," the nearest available equivalent to a wholesale price.

This subindustry as defined for 1947 included establishments of multiunit enterprises with baking on the premises at each location; such establishments were classified in Retail Trade (SIC 5462) for 1954. Thus the 1947 figures for "retail multi-outlet bakeries" are not closely comparable to the 1954 figures.

The value of shipments of Industry 2051, Bread and Related Products, in 1954 totaled \$3,067 million. This included shipments of primary products (bread and related products) valued at \$2,995 million, shipments of secondary products valued at \$54 million, and miscellaneous receipts (mainly sale of scrap and refuse) of \$18 million. Receipts for merchandising (products bought and resold without further manufacture or processing) valued at \$278 million are excluded from the \$3,067 million value of shipments of Industry 2051. Data relating to these merchandising receipts are also excluded from the cost of materials and value added, but are included in other industry statistics, mainly employment and inventories.

Industry 2051 shipments of bread and related products in 1954 represented 98 percent of its total product shipments (primary and secondary). In 1947, this primary product specialization ratio was also 98 percent. Secondary products shipped by this industry in 1954 consisted mainly of biscuit, cracker and pretzel products, \$37 million, and other food products such as potato chips and other food preparation, \$17 million.

Industry 2051 shipments of bread and related products in 1954 represented 99 percent of these products, valued at \$3,012 million, shipped by all manufacturing industries. In 1947, this coverage ratio was also 99 percent.

2052--Biscuit and Crackers (Full Standard Industrial Classification Title: Biscuit, Crackers and Pretzels).

This industry comprises establishments primarily engaged in manufacturing biscuit (except raised biscuit), crackers, sponge goods, dry sweet goods, machine-made cookies, pretzels, and similar "dry" bakery products, such as cracker meal, matzoth, sugar wafers and zwieback and rusk (machine-made). Establishments primarily engaged in producing "perishable" bakery products are classified in Industry 2051, Bread and Related Products. For a detailed list of the primary products of Industry 2052, refer to Table 6A, product codes 2052011 to 2052051.

The value of shipments of Industry 2052, Biscuit and Crackers, in 1954 totaled \$757 million. This included shipments of primary products (biscuit and crackers) valued at \$735 million, shipments of secondary products valued at \$21 million, and miscellaneous receipts of \$1 million. Receipts for merchandising (products bought and resold without further manufacture

or processing) valued at \$50 million are excluded from the \$757 million value of shipments of Industry 2052. Data relating to these merchandising receipts are also excluded from the cost of materials and value added, but are included in other detailed industry statistics, mainly employment and inventories.

Industry 2052 shipments of biscuit, crackers and pretzels in 1954 represented 97 percent of its total product shipments (primary and secondary). In 1947, this primary product specialization ratio was 96 percent. Secondary products shipped by this industry in 1954 consisted mainly of bread and related products, \$7 million, and dog and cat food and other food and confectionery products valued at \$14 million.

Industry 2052 shipments of primary products (biscuit, crackers and pretzels) in 1954 represented 93 percent of these products, valued at \$787 million, shipped by all industries. In 1947, this coverage ratio was also 93 percent. The principal other industry shipping biscuit, crackers, and pretzels in 1954 was Industry 2051, Bread and Related Products, \$38 million.

5462--Retail Bakeries (Bakery Products Stores) with Baking on Premises.

These are retail establishments primarily engaged in selling bakery products, such as bread, cakes, or pies, over the counter. Stores, with baking on the premises at each location, which are operated by multiunit organizations are also included in Retail Trade in 1954.

Data for retail bakeries with baking on the premises were collected in the 1954 Census of Business. The information contained in Tables 6B and 7B of this report for such establishments is based on a probability sample of all establishments in this classification. Sampling techniques used are described in "The Sample Survey of Retail Stores" (Bureau of the Census Technical Paper No. 1) available from the Superintendent of Documents, Government Printing Office, Washington 25, D. C., for 20 cents per copy. Approximately 75 percent of the establishments in the sample supplied some or all of the information required for these tabulations. Totals were derived by assuming that the experience of those establishments which did not report the requested information was the same as those which did report such data.

The general statistics (employment, payrolls, value of shipments, cost of materials, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products, and, for that matter, their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (Tables 1-4) with product statistics (Table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in Table 5A which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry made as secondary products by establishments in other industries.



## BAKERY PRODUCTS

20E-3

Table 1.—GENERAL STATISTICS FOR THE UNITED STATES: 1954 AND EARLIER YEARS  
(For explanation of column captions see Introduction)

Industry and census year	Establishments, number	All employees		Production workers		Value added by manufacture <sup>2</sup> (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments <sup>3</sup> (\$1,000)
		Number <sup>1</sup>	Payroll (\$1,000)	Number <sup>1</sup>	Wages (\$1,000)			
Bread and other bakery products, including retail bakeries with baking on the premises (S.I.C. 2051, 5462):								
1944 <sup>4</sup> .....	18,714	<sup>5</sup> 319,777	1,131,946	(NA)	(NA)	(NA)	(NA)	3,711,299
1947.....	17,901	282,983	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1949.....	18,043	247,591	330,666	201,533	262,002	643,597	567,427	1,211,024
1937.....	16,874	231,258	304,309	210,597	265,354	588,598	629,267	1,217,865
1935.....	18,720	207,771	255,763	189,182	222,645	471,736	580,728	1,052,464
1933.....	14,483	169,378	195,446	155,229	174,423	399,340	370,992	770,332
1931.....	17,364	(NA)	(NA)	154,764	212,353	543,373	436,531	979,904
1929.....	20,410	183,926	279,770	166,970	240,354	621,622	629,999	1,251,621
1927.....	17,909	154,245	239,846	139,013	202,197	560,406	585,304	1,145,710
1925.....	17,490	142,235	216,008	128,034	187,660	462,920	560,743	1,023,668
1923.....	18,572	142,269	213,579	127,496	183,221	425,949	485,169	911,118
1921.....	20,024	132,611	195,824	117,026	169,829	386,895	515,568	902,463
1919.....	24,919	131,504	168,886	107,251	132,171	337,771	610,105	947,876
1914 <sup>6</sup> .....	25,797	113,976	79,681	99,016	66,072	171,825	230,584	402,409
Bread and other bakery products (S.I.C. 2051):								
1954, total.....	6,103	246,337	973,546	143,077	477,972	1,568,933	1,498,088	3,067,017
Wholesale bakeries.....	5,426	190,195	753,745	109,125	358,770	1,223,635	1,162,090	2,385,721
Grocery chain bakeries.....	142	16,233	60,078	14,382	50,964	107,974	157,877	265,851
House-to-house bakeries.....	217	28,094	120,962	11,434	40,594	175,517	122,033	297,551
Retail multi-outlet bakeries.....	318	11,813	38,760	8,134	27,642	61,805	56,087	117,892
1953 <sup>7</sup> .....	(NA)	238,911	905,931	144,273	481,965	1,528,757	1,423,235	2,951,992
1952 <sup>7</sup> .....	(NA)	264,519	940,982	158,272	485,423	1,572,270	1,500,758	3,073,028
1951 <sup>7</sup> .....	(NA)	257,951	869,031	156,032	448,022	1,454,504	1,468,256	2,922,760
1950 <sup>7</sup> .....	(NA)	246,463	781,545	151,696	406,327	1,313,402	1,291,225	2,604,627
1949 <sup>7</sup> .....	(NA)	246,036	751,049	152,267	396,445	1,272,817	1,290,585	2,563,402
1947.....	6,796	232,726	654,776	149,519	350,056	1,098,012	1,305,577	2,403,589
1939 <sup>8</sup> .....	10,325	<sup>9</sup> 217,000	<sup>9</sup> 298,000	<sup>10</sup> 180,202	<sup>10</sup> 236,576	573,837	491,498	1,065,335
Biscuit and crackers (S.I.C. 2052):								
1954.....	311	44,763	150,880	35,700	109,619	408,254	348,934	757,193
1953 <sup>7</sup> .....	(NA)	47,180	150,003	38,346	113,725	400,473	347,828	748,301
1952 <sup>7</sup> .....	(NA)	49,271	153,477	38,963	111,633	392,805	339,101	731,906
1951 <sup>7</sup> .....	(NA)	47,872	147,272	38,762	106,006	355,602	344,439	700,041
1950 <sup>7</sup> .....	(NA)	47,257	133,423	38,600	97,392	325,826	277,843	603,669
1949 <sup>7</sup> .....	(NA)	46,037	122,381	37,646	90,138	307,368	258,600	565,968
1947.....	326	46,058	109,223	37,526	78,361	264,973	275,249	540,222
1939.....	356	35,940	42,059	29,173	28,550	118,743	82,050	200,793
1937.....	319	31,877	35,146	28,791	28,641	110,543	97,755	208,298
1935.....	348	32,159	32,060	29,241	25,888	93,295	89,313	182,608
1933.....	347	29,475	26,238	27,153	22,250	92,972	56,473	149,445
1931.....	354	(NA)	(NA)	28,397	26,978	141,197	68,946	210,143
1929 <sup>5</sup> .....	375	38,556	44,676	33,871	34,208	167,389	107,101	274,490
1927.....	220	37,387	43,120	32,982	34,029	141,058	107,932	248,990
1925.....	194	36,918	41,129	32,377	31,946	137,259	107,268	244,527
1923.....	167	39,868	40,500	35,117	31,358	122,437	89,351	211,788
1921.....	149	36,435	38,571	31,474	29,110	104,463	83,046	187,509
1919.....	176	41,230	38,171	34,341	26,066	100,887	103,134	204,021
1914 <sup>6</sup> .....	166	30,082	16,953	25,036	10,794	45,810	43,674	89,484

NA Not Available.

<sup>1</sup>For the period 1949-1954, figures are based on employment for the payroll periods ended nearest the 15th of March, May, August and November. For 1947, they represent the average of 12 monthly figures. For earlier years, the production worker average was calculated as in 1947, but the figure for all employees represents the sum of the annual average number of production workers and the number of nonproduction workers reported for one payroll period (usually in October).

<sup>2</sup>Value of products less cost of materials, supplies, fuel, electric energy and contract work. See Introduction, "Value Added by Manufacture."

<sup>3</sup>For 1929 and 1947-1954, value of shipments; for all other years, value of production. See Introduction, "Value of Shipments."

<sup>4</sup>Excludes 3,932 "bakery products stores" with no paid employees and with sales of \$59,668,000.

<sup>5</sup>Includes 73,440 employees reported by retail bakeries covered in the 1954 Census of Business. This figure represents the number of employees as of the week ended nearest November 15, 1954 rather than the average for the year.

<sup>6</sup>No comparable figures available for earlier years.

<sup>7</sup>The figures for 1949-1953 represent estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period. Estimates with a standard error in excess of 15 percent generally have been omitted from this table.

<sup>8</sup>Figures were obtained from a retabulation of 1939 Census reports classified in accordance with present industry definitions and, except for production workers, are comparable with the figures for 1947-1954.

<sup>9</sup>Estimated by applying to retabulated data on number and wages of production workers the following ratios, respectively, computed from published 1939 statistics: (1) Total number of employees to number of production workers in establishments classified as "Wholesale" and "Wholesale and Retail" and (2) Wages paid to all employees to wages paid to production workers in the same categories.

<sup>10</sup>Figures are for wage earners, including driver-salesmen, and are not comparable with later years. Analysis of a sample of 1939 returns indicates that somewhat over 40 percent of these wage earners were driver-salesmen.

## MANUFACTURES - INDUSTRY STATISTICS

Table 2.—GENERAL STATISTICS BY REGIONS AND STATES: 1954 AND 1947

(For explanation of column captions see Introduction)

Industry, Region and State <sup>1</sup>	1954				1947	
	Establishments, number	All employees		Value of shipments (\$1,000)	Establishments, number	All employees, number
		Number	Payroll (\$1,000)			
bread and other bakery products, including retail bakeries with baking on the prem- ises (S.I.C. 2051, 5462), total.....	18,714	319,777	1,131,946	3,711,299	17,901	282,983
New England.....	1,739	26,120	85,668	281,481	1,532	23,234
Massachusetts.....	37	14,386	46,286	147,714	800	13,789
Rhode Island.....	174	2,618	8,982	29,499	182	2,195
Connecticut.....	386	5,387	18,702	59,261	323	4,080
Middle Atlantic.....	5,306	86,433	313,578	978,862	5,090	79,937
New York.....	2,801	43,617	162,232	510,718	2,479	37,279
New Jersey.....	1,004	13,728	49,472	150,872	902	12,963
Pennsylvania.....	1,471	29,088	101,873	317,271	1,619	29,695
East North Central.....	4,365	74,433	266,993	849,344	4,290	67,155
Ohio.....	1,067	22,812	82,456	252,653	1,044	20,412
Indiana.....	419	7,772	27,691	86,814	369	6,770
Illinois.....	1,449	21,199	76,434	253,498	1,502	19,681
Michigan.....	786	14,284	54,565	176,258	780	12,963
Wisconsin.....	644	8,364	25,846	80,119	595	7,329
West North Central.....	1,780	28,141	94,991	313,104	1,828	25,320
Minnesota.....	512	6,272	19,283	65,162	503	5,556
Iowa.....	306	4,649	16,001	53,436	279	4,121
Missouri.....	443	10,129	36,490	114,626	511	8,922
Nebraska.....	154	2,833	9,976	31,295	150	2,630
Kansas.....	198	2,476	8,300	29,184	212	2,494
South Atlantic.....	1,395	(D)	(D)	(D)	1,162	27,540
Maryland.....	274	5,512	18,068	66,431	268	5,111
District of Columbia.....	64	2,366	9,798	31,212	43	2,282
Virginia.....	178	4,589	14,462	54,132	157	3,839
West Virginia.....	111	2,933	10,801	35,059	126	2,767
North Carolina.....	163	5,457	16,400	63,165	146	4,165
South Carolina.....	70	2,025	6,162	22,237	71	1,664
Georgia.....	160	4,458	14,508	56,642	124	3,470
Florida.....	342	5,521	16,623	65,688	208	3,848
East South Central.....	488	12,885	41,356	152,086	446	10,894
Kentucky.....	157	3,187	11,330	39,353	150	3,000
Tennessee.....	151	4,952	15,794	61,179	138	3,895
Alabama.....	114	3,289	9,848	35,335	82	2,486
Mississippi.....	66	1,456	4,384	16,218	76	1,513
West South Central.....	1,049	(D)	(D)	(D)	1,108	17,272
Louisiana.....	196	4,747	15,414	54,663	214	3,689
Oklahoma.....	179	2,968	10,150	32,618	217	2,610
Texas.....	583	11,214	38,025	143,359	588	9,509
Mountain.....	604	7,671	24,978	91,741	584	6,761
Montana.....	98	972	2,876	10,895	84	829
Idaho.....	50	566	1,699	6,575	62	690
Wyoming.....	47	320	781	3,112	50	378
Colorado.....	167	2,556	8,500	29,234	167	2,306
New Mexico.....	61	754	2,136	8,163	65	597
Arizona.....	83	1,041	3,977	15,163	64	787
Utah.....	83	1,235	4,136	15,564	76	999
Nevada.....	25	224	872	3,034	16	175
Pacific.....	1,988	30,140	126,799	393,072	1,841	24,870
Washington.....	310	4,187	16,073	49,598	312	4,206
Oregon.....	202	2,654	10,137	34,956	208	2,729
California.....	1,476	23,298	100,588	308,517	1,321	17,935

See footnotes at end of table.

## BAKERY PRODUCTS

20E-5

Table 2.—GENERAL STATISTICS BY REGIONS AND STATES: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Industry, Region and State <sup>1</sup>	1954										1947		
	Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
	Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
Bread and other bakery products (S.I.C. 2051), total.....	6,103	2,024	246,337	973,546	143,077	293,871	477,972	1,568,933	1,498,088	3,067,017	75,725	232,726	1,098,012
New England.....	585	162	19,792	73,161	11,494	23,359	36,829	117,582	111,782	229,365	5,284	19,891	86,147
Maine.....	56	16	2,036	6,651	1,372	2,798	3,779	14,157	12,978	27,136	838	(D)	(D)
New Hampshire.....	28	6	652	2,389	356	794	1,132	4,188	3,403	7,592	99	829	4,015
Vermont.....	18	6	433	1,492	283	557	890	2,616	2,588	5,205	77	445	1,925
Massachusetts.....	281	84	10,753	39,486	6,073	12,217	19,531	60,232	59,177	119,410	2,950	11,854	(D)
Rhode Island.....	66	16	2,094	7,935	1,194	2,417	3,882	11,993	12,909	24,902	463	1,895	7,642
Connecticut.....	136	34	3,821	15,208	2,214	4,574	7,613	24,394	20,724	45,119	853	3,383	15,202
Middle Atlantic.....	1,507	430	62,960	256,025	36,787	75,879	132,861	389,268	358,813	748,081	15,275	64,473	310,123
New York.....	720	188	30,460	127,076	18,251	38,177	68,914	193,839	176,968	370,808	8,628	29,480	(D)
New Jersey.....	245	63	9,347	39,107	4,940	9,962	18,377	56,185	50,800	106,986	2,101	8,367	(D)
Pennsylvania.....	542	179	23,153	89,841	13,596	27,740	45,569	139,243	131,043	270,286	4,544	26,620	112,426
East North Central.....	1,307	451	54,912	226,317	31,763	65,457	110,184	354,620	333,441	688,062	16,759	54,268	248,705
Ohio.....	321	140	17,333	71,687	9,088	19,169	31,675	110,342	98,090	208,433	6,136	17,465	78,745
Indiana.....	189	59	6,303	24,593	3,717	7,372	11,753	37,824	37,038	74,862	1,749	(D)	(D)
Illinois.....	384	121	14,616	61,338	8,719	17,949	31,460	99,549	95,195	194,745	4,394	14,878	70,641
Michigan.....	275	77	11,260	48,268	7,044	14,743	25,648	75,930	75,649	151,579	3,031	10,707	50,728
Wisconsin.....	138	54	5,398	20,430	3,193	6,223	9,645	30,973	27,467	58,441	1,447	(D)	(D)
West North Central.....	589	185	21,593	83,732	12,238	24,350	39,463	138,971	126,598	265,569	7,275	20,120	91,513
Minnesota.....	111	42	3,977	15,367	2,239	4,632	7,387	26,255	22,109	48,365	901	3,888	17,629
Iowa.....	118	31	3,621	14,285	2,020	4,061	6,347	23,284	22,946	46,230	1,278	(D)	(D)
Missouri.....	157	58	8,557	33,434	4,942	9,266	16,048	53,239	49,850	103,090	3,031	7,616	34,795
Nebraska.....	49	14	2,211	8,978	1,082	2,282	3,796	14,607	12,165	26,773	973	(D)	(D)
Kansas.....	85	25	2,037	7,669	1,218	2,526	3,791	14,006	12,158	26,165	806	(D)	(D)
South Atlantic.....	518	257	27,957	98,331	16,803	36,123	47,344	169,562	187,263	356,826	12,341	24,807	113,043
Delaware.....	11	3	307	1,394	176	363	616	2,607	2,559	5,167	96	378	2,360
Maryland.....	80	38	4,207	15,625	2,699	5,852	8,264	26,439	29,409	55,849	1,301	4,398	19,531
District of Columbia.....	21	11	1,988	8,939	1,119	2,245	4,004	13,501	13,827	27,329	504	2,172	10,113
Virginia.....	71	39	3,792	12,884	2,335	4,818	6,406	22,178	25,607	47,785	994	(D)	(D)
West Virginia.....	68	33	2,712	10,419	1,506	3,388	4,682	16,902	16,648	33,550	850	2,581	(D)
North Carolina.....	81	54	5,016	15,540	3,050	6,459	7,524	27,321	32,065	59,386	1,844	(D)	(D)
South Carolina.....	31	11	1,784	5,751	1,023	2,317	2,479	9,228	11,275	20,503	4,165	1,445	(D)
Georgia.....	59	28	3,922	13,637	2,351	5,160	6,354	25,475	27,276	52,751	1,148	(D)	(D)
Florida.....	96	40	4,225	14,140	2,540	5,516	7,012	25,909	28,595	54,504	1,435	3,274	14,954
East South Central.....	225	104	11,383	38,694	6,791	13,896	18,503	66,398	73,370	139,768	3,677	9,734	41,554
Kentucky.....	58	26	2,580	10,159	1,545	3,207	4,892	16,547	18,057	34,605	817	2,542	10,534
Tennessee.....	78	37	4,579	15,144	2,795	5,492	7,377	27,959	30,133	58,092	1,383	3,552	16,388
Alabama.....	50	24	2,869	9,164	1,702	3,579	4,458	14,213	17,464	31,678	1,106	2,286	(D)
Mississippi.....	39	17	1,354	4,227	748	1,616	1,775	7,677	7,714	15,392	370	1,354	(D)
West South Central.....	524	171	18,143	64,857	10,298	21,968	29,560	115,497	116,398	231,894	6,033	15,137	70,851
Arkansas.....	59	20	1,614	5,327	889	1,741	2,338	10,493	8,885	19,378	560	1,297	(D)
Louisiana.....	99	36	4,164	14,308	2,369	5,131	6,750	24,333	25,440	49,772	2,112	(D)	(D)
Oklahoma.....	109	28	2,683	9,622	1,501	3,157	4,292	15,328	15,002	30,331	741	2,250	(D)
Texas.....	257	87	9,681	35,598	5,537	11,937	16,179	65,342	67,069	132,412	2,619	8,348	41,447
Mountain.....	281	78	6,090	22,031	3,844	7,939	11,703	40,440	38,672	79,113	2,069	(D)	(D)
Montana.....	46	12	739	2,410	493	1,068	1,497	4,594	4,477	9,071	214	686	3,356
Idaho.....	25	9	473	1,555	301	618	879	2,781	3,057	5,839	79	586	2,771
Wyoming.....	30	2	249	649	179	350	451	1,143	1,333	2,476	32	288	1,128
Colorado.....	74	26	2,139	7,771	1,308	2,694	3,785	13,807	12,379	26,186	578	(D)	(D)
New Mexico.....	28	7	545	1,732	371	803	1,011	2,989	3,432	6,422	266	487	2,156
Arizona.....	35	9	818	3,497	488	1,054	1,778	6,882	6,379	13,262	365	664	3,787
Utah.....	31	10	968	3,752	588	1,133	1,915	7,080	6,515	13,596	268	(D)	(D)
Nevada.....	12	3	156	664	112	216	384	1,163	1,097	2,260	264	137	603
Pacific.....	567	186	23,504	110,395	13,056	24,896	51,522	176,591	151,747	328,338	7,009	(D)	(D)
Washington.....	117	31	3,347	14,284	1,914	3,600	6,778	21,289	20,725	42,015	882	(D)	(D)
Oregon.....	67	25	2,101	8,881	1,224	2,295	4,562	16,386	13,408	29,795	736	(D)	(D)
California.....	383	130	18,055	87,229	9,917	19,000	40,181	138,915	117,613	256,527	5,390	13,668	85,630
Wholesale bakeries, total.....	5,426	1,641	190,195	753,745	109,125	225,379	358,770	1,223,635	1,162,090	2,385,721	60,591	163,845	794,254
New England.....	500	111	12,129	45,163	6,964	14,138	22,058	71,844	69,961	141,806	3,357	11,138	47,561
Maine.....	51	11	1,123	3,810	740	1,469	1,973	7,372	6,403	13,776	339	1,041	(D)
Massachusetts.....	232	55	6,076	22,439	3,400	6,963	10,882	34,316	36,067	70,384	1,900	5,916	25,075
Rhode Island.....	9	12	1,519	5,878	784	1,586	2,558	8,609	8,521	17,131	364	1,415	5,815
Connecticut.....	118	24	2,673	10,392	1,587	3,183	5,194	16,949	14,677	31,627	605	1,887	8,093

See footnotes at end of table.



## MANUFACTURES - INDUSTRY STATISTICS

Table 2.—GENERAL STATISTICS BY REGIONS AND STATES: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Industry, Region and State <sup>1</sup>	1954										1947		
	Establishments, number		All employees		Production workers			Value added by manufacture	Cost of materials, etc.	Value of shipments	Capital expenditures, new	All employees, number	Value added by manufacture
	Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)		(\$1,000)
Wholesale bakeries--													
Con.													
Middle Atlantic.....	1,295	316	43,057	173,285	25,874	53,938	91,759	268,796	243,103	511,899	9,711	39,079	197,338
New York.....	638	152	21,732	89,291	13,063	27,532	48,312	133,003	120,079	253,083	5,855	19,072	103,660
New Jersey.....	216	43	6,147	25,906	3,495	7,182	12,949	40,705	36,359	77,065	1,225	6,145	(D)
Pennsylvania.....	441	121	15,176	58,087	9,316	19,223	30,496	95,087	86,663	181,751	2,630	13,862	(D)
East North Central.....	1,148	363	42,819	180,126	23,875	49,309	82,427	280,563	259,480	540,044	12,881	36,321	170,144
Ohio.....	274	106	12,546	52,902	6,434	13,629	22,338	79,540	72,478	152,019	3,642	9,886	43,601
Indiana.....	173	50	5,417	21,585	3,129	6,266	9,927	33,354	31,452	64,806	1,663	3,935	(D)
Illinois.....	348	104	12,880	55,288	7,368	15,205	26,552	88,241	81,553	169,795	4,171	11,868	58,020
Michigan.....	237	61	7,566	32,821	4,414	9,219	15,798	53,470	51,836	105,307	2,170	7,027	34,188
Wisconsin.....	116	42	4,417	17,529	2,529	4,987	7,810	25,956	22,158	48,114	1,231	3,605	(D)
West North Central.....	545	159	18,032	70,603	9,950	20,007	31,977	116,496	105,760	222,256	6,499	15,711	73,234
Minnesota.....	99	35	3,154	12,233	1,739	3,582	5,572	20,896	17,588	38,485	714	2,827	(D)
Iowa.....	114	30	3,538	14,113	1,951	3,917	6,194	22,899	22,541	45,440	1,263	2,854	(D)
Missouri.....	142	47	6,225	24,729	3,493	6,703	11,397	39,012	36,295	75,308	2,525	5,417	25,122
South Dakota.....	39	8	650	2,269	407	873	1,174	4,057	3,731	7,789	162	548	(D)
Kansas.....	77	22	1,874	7,080	1,080	2,211	3,321	12,608	11,023	23,632	794	2,001	8,305
South Atlantic.....	469	221	23,621	83,155	13,777	29,912	38,119	141,512	152,398	293,910	11,206	20,005	94,018
Delaware.....	11	3	307	1,394	176	363	616	2,607	2,559	5,167	96	321	2,062
Maryland.....	67	27	2,860	10,589	1,779	3,882	5,161	16,015	18,616	34,632	998	2,653	11,666
Virginia.....	60	33	2,893	9,746	1,727	3,652	4,632	16,594	18,969	35,564	833	2,779	11,223
West Virginia.....	64	30	2,418	9,340	1,394	3,126	4,390	15,718	15,728	31,446	817	2,329	(D)
North Carolina.....	76	51	4,657	14,510	2,740	5,827	6,688	25,481	28,608	54,090	1,766	3,520	14,900
Georgia.....	56	25	3,427	11,952	1,990	4,412	5,273	22,920	23,425	46,346	1,086	2,590	13,416
Florida.....	89	35	3,808	13,009	2,192	4,820	6,073	23,480	23,579	47,060	1,088	2,819	13,618
East South Central.....	210	94	10,510	35,768	6,100	12,485	16,316	61,560	66,436	127,997	3,290	8,533	37,039
Kentucky.....	52	21	1,998	7,951	1,093	2,309	3,304	12,874	12,740	25,615	767	1,706	7,152
Tennessee.....	74	34	4,416	14,625	2,656	5,198	6,944	27,108	28,922	56,031	(D)	3,357	15,619
Alabama.....	50	24	2,869	9,164	1,702	3,579	4,458	14,213	17,464	31,678	1,106	2,173	9,259
Mississippi.....	34	15	1,225	4,026	647	1,397	1,608	7,363	7,308	14,672	(D)	1,297	(D)
West South Central.....	485	155	16,332	59,104	9,251	19,841	26,537	105,427	106,887	212,313	5,541	13,427	64,585
Arkansas.....	54	18	1,506	5,111	801	1,608	2,164	10,149	8,546	18,696	473	1,273	(D)
Louisiana.....	90	31	3,772	13,376	2,135	4,663	6,119	23,022	23,625	46,646	2,065	2,970	13,018
Oklahoma.....	103	27	2,502	9,034	1,422	3,010	4,067	14,391	14,457	28,849	692	2,148	(D)
Texas.....	238	79	8,551	31,582	4,892	10,558	14,187	57,864	60,257	118,122	2,309	7,036	36,480
Mountain.....	258	66	5,408	20,009	3,339	6,902	10,174	35,981	34,697	70,679	1,909	4,947	23,119
Montana.....	42	12	700	2,325	460	994	1,424	4,452	4,322	8,774	211	674	(D)
Idaho.....	25	9	473	1,555	301	618	879	2,781	3,057	5,839	79	577	(D)
Wyoming.....	30	2	249	649	179	350	451	1,143	1,333	2,476	32	(D)	(D)
Colorado.....	65	22	1,862	6,922	1,081	2,213	3,059	11,835	10,198	22,034	493	1,533	6,295
Arizona.....	30	5	644	2,902	375	831	1,413	5,680	5,743	11,424	314	552	(D)
Pacific.....	516	156	18,282	86,526	9,987	18,840	39,398	141,452	123,362	264,814	6,190	14,684	87,216
Washington.....	105	23	2,583	11,473	1,453	2,806	5,209	17,694	16,829	34,523	667	2,545	12,570
Oregon.....	60	20	1,696	7,316	991	1,877	3,632	13,165	11,103	24,269	692	1,892	10,017
California.....	351	113	14,002	67,736	7,542	14,156	30,556	110,592	95,430	206,022	4,830	10,247	64,629
Grocery chain													
bakeries, total.....													
New England.....	16	12	1,997	7,363	1,723	3,402	6,020	13,183	17,971	31,154	407	(D)	(D)
Massachusetts.....	8	6	968	3,374	887	1,677	2,975	5,073	7,548	12,621	98	686	(D)
Middle Atlantic.....	32	27	5,077	20,540	4,481	8,824	17,312	31,005	48,127	79,133	1,960	(D)	(D)
New York.....	10	9	2,091	8,258	1,912	3,724	7,324	12,773	19,877	32,650	1,207	1,479	(D)
New Jersey.....	6	5	652	2,619	576	1,159	2,251	4,267	6,597	10,864	295	(D)	(D)
Pennsylvania.....	16	13	2,334	9,663	1,993	3,941	7,737	13,964	21,653	35,618	497	1,932	(D)
East North Central.....	26	20	3,491	12,933	3,097	6,106	11,169	22,362	36,148	58,511	700	(D)	(D)
Ohio.....	7	6	904	3,414	787	1,565	2,843	5,686	9,591	15,277	223	(D)	(D)
Illinois.....	5	4	922	3,481	810	1,583	3,088	5,942	9,965	15,907	130	735	(D)
Michigan.....	7	4	1,040	3,943	940	1,921	3,439	6,718	10,524	17,243	206	1,058	(D)
West North Central.....	18	15	1,651	5,454	1,506	2,740	4,750	10,819	14,057	24,876	372	(D)	(D)
Missouri.....	8	7	1,148	3,683	1,044	1,751	3,188	6,693	9,473	16,166	247	1,098	(D)
South Atlantic.....	18	16	2,043	6,599	1,816	3,587	5,558	12,967	21,879	34,846	697	(D)	(D)
Virginia.....	5	4	529	1,767	464	920	1,388	3,276	4,777	8,053	102	200	(D)
East South Central.....	7	6	671	2,361	589	1,195	1,914	4,019	6,296	10,315	362	(D)	(D)
West South Central.....	9	6	516	1,670	479	994	1,504	3,801	4,791	8,593	103	(D)	(D)
West.....	16	12	786	3,157	688	1,347	2,733	9,815	8,606	18,421	303	(D)	(D)
California.....	8	5	391	1,645	334	640	1,438	5,031	4,263	9,294	153	(D)	(D)

See footnotes at end of table.

## BAKERY PRODUCTS

20E-7

Table 2.—GENERAL STATISTICS BY REGIONS AND STATES: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Industry, Region and State <sup>1</sup>	1954											1947	
	Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
	Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
House-to-house bakeries, total.....	217	148	28,094	120,962	11,434	23,922	40,594	175,517	122,033	297,551	7,650	30,724	149,805
New England.....	31	21	4,438	17,512	1,969	4,151	6,429	27,921	18,574	46,495	1,038	4,464	20,896
Massachusetts.....	18	12	2,864	11,568	1,168	2,429	4,019	17,638	11,709	29,348	515	2,770	12,670
Connecticut.....	6	4	531	2,412	203	423	737	2,781	1,982	4,763	138	883	3,698
Middle Atlantic.....	95	57	11,666	50,510	4,298	8,838	15,548	67,513	51,010	118,524	2,986	12,824	62,657
New York.....	27	13	4,410	20,413	1,763	3,785	6,907	31,343	24,777	56,121	1,142	4,325	23,275
New Jersey.....	11	8	2,244	9,581	706	1,285	2,543	9,848	6,370	16,219	535	1,306	10,222
Pennsylvania.....	57	36	5,011	20,515	1,828	3,767	6,097	26,322	19,862	46,184	1,308	7,193	29,160
East North Central.....	46	34	4,981	20,931	2,105	4,397	7,225	32,058	20,484	52,544	2,233	7,384	37,084
Ohio.....	18	16	3,023	12,602	1,245	2,603	4,239	20,246	12,512	32,759	1,996	4,207	21,913
Illinois.....	4	4	196	662	113	246	366	1,397	846	2,244	28	361	(D)
Michigan.....	12	6	1,056	5,067	432	902	1,607	6,975	4,436	11,412	128	735	(D)
West North Central.....	10	8	1,553	6,764	582	1,211	2,141	10,117	5,495	15,613	339	1,553	7,486
South.....	14	12	2,565	10,313	1,064	2,348	3,454	16,178	12,678	28,857	649	2,928	11,749
Maryland.....	3	3	777	3,177	412	946	1,450	6,266	5,713	11,979	192	1,236	5,207
West Virginia.....	4	3	294	1,079	112	262	292	1,184	919	2,104	32	120	(D)
West.....	21	16	2,890	14,931	1,414	2,974	5,795	21,728	13,789	35,518	403	1,571	9,933
California.....	11	8	2,408	12,970	1,147	2,442	4,801	18,656	11,368	30,025	334	1,147	(D)
Retail multi-outlet bakeries, total.....	318	121	11,813	38,760	8,134	16,370	27,642	61,805	56,087	117,892	2,575	26,802	2104,868
New England.....	38	18	1,227	3,122	836	1,667	2,320	4,634	5,275	9,909	480	(D)	(D)
Massachusetts.....	23	11	844	2,104	616	1,146	1,653	3,204	3,852	7,056	436	2,482	9,739
Middle Atlantic.....	85	30	3,159	11,688	2,132	4,277	8,240	21,953	16,571	38,525	615	8,597	(D)
New York.....	45	14	2,225	9,112	1,512	3,134	6,369	16,719	12,234	28,954	422	4,604	21,024
New Jersey.....	12	7	303	1,001	162	333	634	1,364	1,473	2,838	45	354	(D)
Pennsylvania.....	28	9	631	1,575	458	807	1,238	3,868	2,864	6,733	147	3,639	10,404
East North Central.....	87	34	3,620	12,326	2,684	5,642	9,360	19,635	17,327	36,963	943	6,924	(D)
Ohio.....	22	12	860	2,769	622	1,370	2,255	4,870	3,507	8,377	274	2,158	(D)
Indiana.....	5	1	144	408	119	225	336	889	1,119	2,008	10	171	505
Illinois.....	27	9	617	1,906	427	913	1,453	3,968	2,830	6,799	64	1,914	8,472
Michigan.....	19	6	1,606	6,436	1,255	2,700	4,802	8,765	8,850	17,616	525	1,887	8,446
Wisconsin.....	14	6	392	806	258	433	512	1,141	1,020	2,162	69	794	1,923
West North Central.....	16	3	357	910	198	390	593	1,538	1,284	2,823	64	1,692	(D)
Minnesota.....	7	3	265	725	145	274	463	1,200	927	2,128	43	814	2,983
South.....	55	22	1,222	2,911	813	1,622	2,003	5,990	5,663	11,654	200	2,747	8,395
Texas.....	12	3	206	502	130	233	236	911	715	1,627	37	713	2,121
Mountain.....	15	6	304	684	206	408	528	1,116	992	2,109	62	(D)	(D)
Pacific.....	22	8	1,922	7,118	1,263	2,361	4,595	6,937	8,971	15,908	208	2,986	(D)
California.....	13	4	1,253	4,877	892	1,760	3,384	4,633	6,551	11,185	70	2,147	11,900
Biscuit and crackers (S.I.C. 2052), total.....	311	168	44,763	150,880	35,700	68,509	109,619	408,254	348,934	757,193	13,904	46,058	264,973
New England.....	12	7	1,601	5,241	1,337	2,625	4,025	13,819	12,246	26,065	215	2,028	11,017
Massachusetts.....	8	4	1,467	4,819	1,215	2,433	3,690	12,917	11,558	24,476	162	(D)	(D)
Middle Atlantic.....	120	39	14,364	48,742	12,178	22,186	38,586	130,938	106,416	237,355	2,752	13,823	87,242
New York.....	39	12	6,794	23,891	5,890	11,054	19,706	70,697	51,554	122,251	1,034	7,206	(D)
New Jersey.....	15	7	2,860	9,782	2,363	3,503	7,187	17,017	21,664	38,682	640	...	...
Pennsylvania.....	66	20	4,710	15,068	3,924	7,628	11,693	43,223	33,198	76,421	1,076	5,487	26,465
East North Central.....	55	40	13,292	46,998	10,343	20,356	33,218	125,918	108,412	234,330	3,299	11,723	68,205
Ohio.....	16	10	3,128	10,580	2,648	5,355	8,393	31,447	27,864	59,312	791	3,028	19,440
Illinois.....	18	16	7,251	26,366	5,654	10,857	18,686	76,088	59,160	135,249	1,433	4,663	27,690
Michigan.....	12	9	1,658	5,973	1,194	2,436	3,735	11,675	14,495	26,171	814	2,055	12,229
West North Central.....	30	20	4,144	13,310	2,984	5,912	8,471	33,842	29,290	63,137	1,309	5,950	30,684
Minnesota.....	7	3	497	1,674	316	588	878	3,547	2,321	5,868	101	954	5,770
Missouri.....	16	10	1,127	3,645	895	1,720	2,415	9,749	8,916	18,666	243	2,711	13,865
South Atlantic.....	21	15	3,417	10,349	2,707	5,370	7,439	29,620	27,707	57,328	4,214	3,442	18,930
Maryland.....	4	3	712	1,943	525	988	1,183	2,445	2,681	5,126	80	979	4,170
Georgia.....	6	5	1,605	5,282	1,412	2,816	4,333	21,619	17,334	38,954	3,936	1,267	(D)
Florida.....	5	3	94	187	84	136	135	367	366	733	37	69	(D)

See footnotes at end of table.

## MANUFACTURES - INDUSTRY STATISTICS

Table 2.—GENERAL STATISTICS BY REGIONS AND STATES: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Industry, Region and State <sup>1</sup>	1954										1947		
	Establishments, number		All employees		Production workers			Value added by manufacture	Cost of materials, etc.	Value of shipments	Capital expenditures, new	All employees, number	Value added by manufacture
	Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)		(\$1,000)
Biscuit and crackers, etc.—Continued													
East South Central.....	18	13	1,083	2,799	775	1,389	1,592	4,120	6,005	10,126	241	1,770	6,896
Kentucky.....	4	2	203	589	168	273	359	1,150	2,031	3,182	76	(D)	(D)
Tennessee.....	8	7	542	1,439	330	594	686	2,158	2,699	4,857	78	860	4,063
West South Central.....	16	9	1,838	5,741	1,410	2,805	3,937	19,208	16,149	35,357	418	2,271	12,597
Oklahoma.....	3	1	73	135	65	116	107	223	307	531	(D)	326	(D)
Texas.....	9	6	1,396	4,697	1,062	2,124	3,250	16,804	13,464	30,269	383	1,310	8,581
Mountain.....	6	4	1,200	3,983	987	1,989	3,034	9,636	9,089	18,726	342	(D)	(D)
Pacific.....	33	21	3,821	13,716	2,975	5,872	9,313	41,150	33,617	74,768	1,110	3,889	(D)
California.....	22	14	2,626	9,716	2,055	4,157	6,646	27,239	22,572	49,812	708	2,879	18,506

Note: Detailed figures may not add to the totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>General statistics for some producing States are not shown separately in the table (see INTRODUCTION "Disclosure of Data for Individual Companies"). Such States are shown below with the number of establishments in each State for 1954 and, in parentheses, the number of employees or the employment-size range for that State for 1954:

S.I.C. 2051 and 5462, Bakery Products (including Retail Bakeries): New England—Maine, 117 (1,000-2,499); New Hampshire, 79 (500-999); Vermont, 46 (500-999); West North Central—North Dakota, 73 (500-999); South Dakota, 94 (500-999); South Atlantic—Delaware, 33 (250-499); West South Central—Arkansas, 91 (1,000-2,499).

S.I.C. 2051, Bread and Related Products: East North Central—Wisconsin, 138 (5,398); West North Central—North Dakota, 28 (500-999); South Dakota, 41 (500-999); Nebraska, 49 (1,000-2,499); Kansas, 85 (1,000-2,499).

Bread and Related Products: Selling Chiefly at Wholesale to Other Business Concerns (Groceries, Restaurants, Hotels, Institutions, etc.): New England—New Hampshire, 23 (250-499); Vermont, 17 (250-499); West North Central—North Dakota, 27 (250-499); Nebraska, 47 (1,000-2,499); South Atlantic—District of Columbia, 17 (1,000-2,499); South Carolina, 29 (1,000-2,499); Mountain—New Mexico, 26 (250-499); Utah, 29 (500-999); Nevada, 11 (100-249).

Bread and Related Products, Grocery Chain Bakeries: New England—Maine, 2 (100-249); New Hampshire, 1 (1-19); Vermont, 1 (20-99); Rhode Island, 2 (250-499); Connecticut, 2 (250-499); East North Central—Indiana, 2 (250-499); Wisconsin, 5 (250-499); West North Central—Minnesota, 3 (250-499); Iowa, 1 (20-99); North Dakota, 1 (20-99); South Dakota, 1 (20-99); Nebraska, 2 (20-99); Kansas, 2 (20-99); South Atlantic—Maryland, 2 (250-499); District of Columbia, 2 (100-249); North Carolina, 2 (250-499); Georgia, 2 (250-499); Florida, 5 (250-499); East South Central—Kentucky, 3 (250-499); Tennessee, 3 (100-249); Mississippi, 1 (20-99); West South Central—Arkansas, 1 (20-99); Louisiana, 2 (20-99); Texas, 6 (250-499); West—Montana, 1 (1-19); Colorado, 2 (100-249); Arizona, 1 (20-99); Utah, 1 (20-99); Washington, 2 (100-249); Oregon, 1 (20-99).

Bread and Related Products, Selling Chiefly at Retail Through House-to-house Routes: New England—Maine, 2 (500-999); New Hampshire, 3 (100-249); Rhode Island, 2 (100-249); East North Central—Indiana, 9 (250-499); Wisconsin, 3 (250-499); West North Central—Minnesota, 2 (250-499); Missouri, 4 (1,141); Kansas, 4 (100-249); South—District of Columbia, 1 (250-499); Virginia, 2 (250-499); Georgia, 1 (100-249); Kentucky, 1 (20-99); Oklahoma, 1 (100-249); Texas, 1 (500-999); West—Colorado, 1 (1-19); New Mexico, 1 (20-99); Arizona, 1 (20-99); Washington, 5 (100-249); Oregon, 2 (100-249).

Bread and Related Products: Retail Multi-outlet Bakeries: New England—Maine, 1 (20-99); New Hampshire, 1 (1-19); Rhode Island, 3 (20-99); Connecticut, 10 (100-249); West North Central—Iowa, 3 (20-99); Missouri, 3 (20-99); South Dakota, 1 (1-19); Kansas, 2 (1-19); South—Maryland, 8 (250-499); District of Columbia, 1 (20-99); Virginia, 4 (20-99); North Carolina, 3 (20-99); South Carolina, 2 (20-99); Florida, 2 (20-99); Kentucky, 2 (20-99); Tennessee, 1 (20-99); Mississippi, 4 (20-99); Arkansas, 4 (20-99); Louisiana, 7 (250-499); Oklahoma, 5 (20-99); Mountain—Montana, 3 (20-99); Colorado, 6 (100-249); New Mexico, 1 (1-19); Arizona, 3 (20-99); Utah, 1 (20-99); Nevada, 1 (20-99); Pacific—Washington, 5 (250-499); Oregon, 4 (250-499).

S.I.C. 2052, Biscuit and Crackers: New England—Maine, 1 (20-99); Rhode Island, 1 (20-99); Connecticut, 2 (20-99); East North Central—Indiana, 6 (500-999); Wisconsin, 3 (500-999); West North Central—Iowa, 2 (250-499); North Dakota, 1 (100-249); South Dakota, 1 (250-499); Nebraska, 1 (500-999); Kansas, 2 (500-999); South Atlantic—Virginia, 1 (500-999); West Virginia, 1 (1-19); North Carolina, 4 (100-249); East South Central—Alabama, 4 (100-249); Mississippi, 2 (20-99); West South Central—Arkansas, 2 (100-249); Louisiana, 2 (100-249); Mountain—Colorado, 5 (500-999); Utah, 1 (100-249); Pacific—Washington, 8 (500-999); Oregon, 3 (500-999).

<sup>2</sup>This subindustry as defined for 1947 included establishments of multi-unit enterprises with baking on the premises at each location; such establishments were classified in retail trade (S.I.C. code 5462) for 1954. Therefore the 1947 figures for "retail multi-outlet bakeries" are not closely comparable to the 1954 figures.



BAKERY PRODUCTS

20F-9

Table 3.—DETAILED STATISTICS FOR THE UNITED STATES: 1954

(For explanation of line captions see Introduction)

Item	Bread and related products (S.I.C. 2051)					Biscuit, crackers, and pretzels (S.I.C. 2052)
	Total	Wholesale bakeries	Grocery chain bakeries	House-to-house bakeries	Retail multi-outlet bakeries	
Primary product specialization ratio <sup>1</sup> .....	98	(NA)	(NA)	(NA)	(NA)	97
Coverage ratio <sup>2</sup> .....	99	(NA)	(NA)	(NA)	(NA)	93
Number of establishments, total.....	6,103	5,426	142	217	318	311
With 1-19 employees.....	4,079	3,785	23	69	197	143
With 20-99 employees.....	1,371	1,120	60	86	105	78
With 100 employees and over.....	653	521	54	62	16	90
All employees:						
Number (average for year).....	246,337	190,195	16,233	28,094	11,813	44,763
Payroll.....\$1,000...	973,546	753,745	60,078	120,962	38,760	150,880
Production workers:						
Number (average for year).....	143,077	109,125	14,382	11,434	8,134	35,700
Man-hours.....1,000...	293,871	225,379	28,198	23,922	16,370	68,509
Wages.....\$1,000...	477,972	358,770	50,964	40,594	27,642	109,619
Value added by manufacture.....dq....	1,568,933	1,223,635	107,974	175,517	61,805	408,254
Cost of materials, etc.....do....	1,498,088	1,162,090	157,877	122,033	56,087	348,934
Value of shipments.....do....	3,067,017	2,385,721	265,851	297,551	117,892	757,193
Value added by resales.....do....	67,799	51,780	999	13,736	1,283	10,963
Cost of products bought and resold.....ds....	210,383	180,016	4,290	22,240	3,836	38,597
Sales of products bought and resold.....do....	278,183	231,796	5,289	35,977	5,119	49,560
Total inventories, beginning of year.....do....	128,732	98,897	11,828	13,474	4,530	43,469
Total inventories, end of year.....do....	131,778	100,711	12,664	13,340	5,060	43,133
Capital expenditures, new.....do....	75,725	60,591	4,907	7,650	2,575	13,904
Number of employees for selected months:						
March.....	243,455	188,199	15,709	27,761	11,786	44,648
May.....	245,499	189,882	16,312	27,476	11,829	44,644
August.....	247,297	190,699	16,516	28,611	11,471	45,188
November.....	249,099	192,009	16,394	28,529	12,167	44,571
Cost of materials, fuel, electricity, and contract work, total.....\$1,000...	1,498,088	1,162,090	157,877	122,033	56,087	348,934
Materials, parts, containers, and supplies consumed.....do....	1,456,853	1,130,164	154,611	117,835	54,243	342,685
Fuels consumed, total.....do....	25,480	19,586	2,005	2,857	1,032	3,847
Bituminous coal:						
Quantity.....1,000 short tons...	231	198	15	10	8	20
Value.....\$1,000...	2,370	2,052	129	106	83	193
Anthracite:						
Quantity.....1,000 short tons...	53	46	2	4	1	6
Value.....\$1,000...	525	452	19	43	11	48
Coke:						
Quantity.....1,000 short tons...	6	4	...	1	1	3
Value.....\$1,000...	106	81	...	8	17	42
Fuel oil, distillate and residual:						
Quantity.....1,000 barrels...	2,199	1,659	173	279	88	271
Value.....\$1,000...	8,972	6,934	618	1,027	393	923
Natural gas:						
Quantity.....Million cubic feet...	16,725	12,588	1,644	1,732	761	3,324
Value.....\$1,000...	6,913	5,033	774	758	348	1,318
Manufactured or mixed gas:						
Quantity.....Million cubic feet...	2,885	1,712	645	330	198	1,302
Value.....\$1,000...	1,978	1,128	452	253	145	980
Other fuels:						
Value.....do....	4,616	3,906	13	662	35	343
Electric energy:						
Purchased:						
Quantity.....Million kwh...	959	705	99	111	44	178
Cost.....\$1,000...	14,633	11,313	1,261	1,319	740	2,376
Generated.....Million kwh...	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	...	...	( <sup>3</sup> )
Cost of contract work.....\$1,000...	1,119	1,023	...	23	72	26

See footnotes at end of table.

## MANUFACTURES - INDUSTRY STATISTICS

Table 3.--DETAILED STATISTICS FOR THE UNITED STATES: 1954--Continued

(For explanation of line captions see Introduction)

Item	Bread and related products (S.I.C. 2051)					Biscuit, crackers, and pretzels (S.I.C. 2052)
	Total	Wholesale bakeries	Grocery chain bakeries	House-to-house bakeries	Retail multi-outlet bakeries	
Manufacturers' inventories:						
Beginning of year, total.....	128,732	98,897	11,828	13,474	4,530	43,469
Finished products.....	5,625	4,318	651	297	357	14,288
Work-in-process.....	1,327	1,097	75	91	63	1,599
Materials, supplies, fuel, etc.....	121,779	93,480	11,102	13,086	4,109	27,581
End of year, total.....	121,778	100,711	12,664	13,340	5,060	43,133
Finished products.....	5,781	4,474	587	358	361	15,100
Work-in-process.....	1,252	1,048	53	90	59	1,702
Materials, supplies, fuel, etc.....	124,745	95,187	12,023	12,891	4,640	26,329
Expenditures for plant and equipment, total.....	83,094	67,565	4,945	7,881	2,700	14,300
Capital expenditures, new.....	75,725	60,591	4,907	7,650	2,575	13,904
New structures and additions to plant.....	14,970	11,995	720	1,617	636	2,576
New machinery and equipment.....	60,755	48,596	4,187	6,033	1,939	11,328
Expenditures for used plant and equipment.....	8,934	8,708	38	120	68	757
Horsepower rating of power equipment at end of 1954:						
Horsepower of prime movers and electric motors driven by purchased energy, total.....1,000 hp...	394	309	35	38	12	87
Engines, etc. driving electric generators.....do....	7	7	...	...	...	2
Engines, etc. not driving electric generators.....do....	3	2	...	...	1	5
Electric motors driven by purchased energy.....do....	384	300	35	38	11	80
Electric motors driven by energy generated at the establishment.....do....	...	...	...	...	...	1

<sup>1</sup>The specialization ratio compares the given industry's shipments of its primary products to its total shipments of all products. (See tables 5A and 5B.)

<sup>2</sup>The coverage ratio measures the extent to which the total shipments of products primary to the given industry are shipped by establishments classified in that industry. (See tables 5A and 5B.)

<sup>3</sup>Less than 500,000 kwh.

## BAKERY PRODUCTS

20E-11

Table 4.—SELECTED STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR THE UNITED STATES: 1954

(Value added figures in thousands of dollars. For explanation of line captions see Introduction. Data for any size class which cannot be shown without disclosing information for individual companies have been combined with figures for an adjacent size class. A (D) appears in the column where the figure has been omitted and the combined figure is underlined)

Ind. code	Industry and item	Total, all establishments	Establishments with an average of—									
			1-4 em- ployees	5-9 em- ployees	10-19 em- ployees	20-49 em- ployees	50-99 em- ployees	100-249 employees	250-499 employees	500-999 employees	1,000-2,499 employees	2,500 employees and over
2051	Bread and related products:											
	Number of establishments..	6,103	2,063	1,144	872	813	558	474	137	33	9	...
	Number of employees.....	246,337	5,489	8,046	12,352	26,170	40,599	73,782	45,732	23,093	11,069	...
	Value added by manufacture	1,568,933	25,818	34,985	57,256	140,787	270,999	512,865	306,487	158,205	61,529	...
	Wholesale bakeries:											
	Number of establishments	5,426	2,024	1,045	716	645	475	401	98	17	5	...
	Number of employees.....	190,195	5,381	7,281	10,171	20,776	34,603	62,208	32,416	11,407	5,948	...
	Value added by manufacture.....	1,223,635	25,236	31,706	48,208	112,507	231,692	440,436	221,763	76,845	35,238	...
	Grocery chain bakeries.											
	Number of establishments	142	4	9	15	29	31	33	18	3	...	...
	Number of employees.....	16,233	8	80	212	980	2,261	5,232	<u>7,457</u>	(D)	...	...
	Value added by manufacture.....	107,974	71	320	1,302	7,544	17,456	33,432	<u>47,846</u>	(D)	...	...
	House-to-house bakeries:											
	Number of establishments	217	4	23	42	57	29	32	17	10	3	...
	Number of employees.....	28,094	8	180	595	1,815	2,145	5,279	6,113	<u>11,956</u>	(D)	...
	Value added by manufacture.....	175,517	36	895	2,576	9,208	12,739	32,288	41,666	<u>76,107</u>	(D)	...
	Retail multi-outlet bakeries.											
	Number of establishments	318	31	67	99	82	23	8	4	3	1	...
	Number of employees.....	11,813	92	503	1,372	2,597	1,589	1,063	<u>4,594</u>	(D)	(D)	...
	Value added by manufacture.....	61,805	472	2,064	5,169	11,526	9,110	6,708	<u>26,754</u>	(D)	(D)	...
2052	Biscuit and crackers:											
	Number of establishments..	311	59	39	45	46	32	44	18	22	5	1
	Number of employees.....	44,763	138	294	640	1,472	2,277	7,519	6,241	<u>26,178</u>	(D)	(D)
	Value added by manufacture	408,254	672	1,064	3,465	8,458	14,237	47,717	44,304	<u>288,335</u>	(D)	(D)

Note: Detailed figures may not add to the totals, because of independent rounding.



## MANUFACTURES - INDUSTRY STATISTICS

Table 5A.--INDUSTRY-PRODUCT ANALYSIS--SUMMARY OF INDUSTRY AND PRIMARY PRODUCT SHIPMENTS, SPECIALIZATION RATIOS AND COVERAGE RATIOS FOR THE UNITED STATES: 1954 AND 1947

Industry code <sup>1</sup>	Industry and census year	Value of shipments					Value of primary products shipped			
		Total	Primary products	Secondary products	Miscellaneous receipts	Primary product specialization ratio <sup>1</sup>	Total (made in all industries) <sup>3</sup>	Made in this industry	Made in other industries	Coverage ratio <sup>2</sup>
		(\$1,000) (A)	(\$1,000) (B)	(\$1,000) (C)	(\$1,000) (D)	Col. B Col. B+C (Percent) (E)	(\$1,000) (F)	(\$1,000) (G)	(\$1,000) (H)	Col. G Col. F (Percent) (I)
2051	Bread and related products...1954..	3,067,017	2,994,658	54,128	18,231	98	3,012,109	2,994,658	17,451	99
	1947..	2,403,589	2,345,835	39,265	18,489	98	2,360,082	2,345,835	14,247	99
2052	Biscuit and crackers.....1954..	757,193	735,301	20,895	997	97	786,851	735,301	51,550	93
	1947..	540,222	519,950	19,835	437	96	557,805	519,950	37,855	93

<sup>1</sup>The specialization ratio compares the given industry's shipments of its primary products to its total shipments of all products (The primary products are listed in Tables 5B and 6A; the first 4 digits of the product code represent the industry code to which the product is primary.)

<sup>2</sup>The coverage ratio measures the extent to which the total shipments of products primary to the given industry are shipped by establishments classified in that industry.

<sup>3</sup>Excludes products of retail bakeries (S.I.C. 5462).

Table 5B.--INDUSTRY-PRODUCT ANALYSIS--SHIPMENTS BY PRODUCT CLASS AND INDUSTRY, FOR THE UNITED STATES: 1954

(In thousands of dollars. Each column shows for the industry listed in the column heading, the value of shipments divided between bakery products, other products, and miscellaneous receipts. Each figure represents the amount of the product class shown at the left shipped by the industry listed at the top of the column. The first four digits of the product class codes at the left represent the codes of the industries to which they are primary. All other product classes in a column represent products secondary to the specified industry)

Prod. class code	Class of products and miscellaneous receipts	Bread and related products (S.I.C. 2051)					Biscuit and crackers (S.I.C. 2052)	Other industries <sup>1</sup>	All industries <sup>1</sup>
		Total	Wholesale bakeries	Grocery chain bakeries	House-to-house bakeries	Retail multi-outlet bakeries			
	Value of shipments.....	3,067,017	2,385,721	265,851	297,551	117,892	757,193	xxx	xxx
	Bakery products, total.....	3,032,206	(NA)	(NA)	(NA)	(NA)	742,367	24,387	3,798,960
	Products primary to Industry 2051, Bread and related products.....	2,994,658	(NA)	(NA)	(NA)	(NA)	7,066	10,385	3,012,109
20511	Bread and bread type rolls.....	2,004,371	1,647,418	140,081	182,036	34,836	3,191	1,654	2,009,216
20512	Sweet yeast goods.....	228,307	142,758	24,323	36,326	24,900	1,246	4,370	233,923
20513	Soft cakes.....	369,835	267,326	40,535	37,209	24,765	763	1,787	372,385
20514	Pies.....	182,820	147,414	12,397	12,245	10,764	1,193	1,893	185,906
20515	Pastries.....	29,952	19,664	646	4,172	5,470	...	77	30,029
20516	Cookies, hand made.....	23,843	18,890	838	1,506	2,609	54	322	24,219
20517	Doughnuts, cake type.....	113,126	82,087	13,488	10,976	6,575	135	8	113,269
20510	Bread and related products, not specified by kind.....	42,404	(NA)	(NA)	(NA)	(NA)	484	274	43,162
20520	Biscuit, crackers, and pretzels.....	37,548	(NA)	(NA)	(NA)	(NA)	735,301	14,002	786,851
	Other products not primary to industry group 205...	16,580	(NA)	(NA)	(NA)	(NA)	13,829	xxx	xxx
	Miscellaneous receipts.....	18,231	(NA)	(NA)	(NA)	(NA)	997	xxx	xxx

NA Not available.

<sup>1</sup>Excludes products of retail bakeries (S.I.C. 5462).

## BAKERY PRODUCTS

20E-13

Table 6A.—QUANTITY AND VALUE OF PRODUCTS SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, FOR THE UNITED STATES: 1954 AND 1947

Product code	Product	Total shipments including interplant transfers			
		1954		1947	
		Quantity	Value	Quantity	Value
	ALL MANUFACTURERS (Except retail bakeries) <sup>1</sup>	(1,000 pounds baked weight)	(\$1,000)	(1,000 pounds baked weight)	(\$1,000)
2051----	Bread and related products, total.....	xxx	3,012,109	xxx	2,360,082
20511	Bread and bread type rolls.....	xxx	2,009,216	xxx	1,349,499
	Bread:				
2051111	White, pan.....	8,614,290	1,295,141	8,521,157	937,560
2051113	White, hearth.....	252,820	38,956	306,117	37,882
2051115	Whole wheat, cracked wheat, and other dark wheat breads.....	996,029	159,388	893,411	105,487
2051117	Rye, including pumpernickel.....	620,278	100,203	613,391	78,016
2051119	Raisin and other specialty breads.....	327,975	57,603	192,476	27,813
2051131	Rolls, bread type (including kaiser, parkerhouse, hamburger, and wiener rolls, etc.).....	1,501,624	302,398	942,791	152,643
2051198	Other bread and other bread type rolls.....	xxx	2,661	xxx	xxx
2051100	Bread and bread type rolls, not specified by kind.....	xxx	52,866	xxx	10,098
2051211	Sweet yeast goods, all types, including sweet rolls, coffee cake, puff pastry and yeast-raised doughnuts.....	630,842	233,923	612,328	182,169
2051311	Soft cakes, all types, including pound, layer, fruit, etc.....	1,055,031	372,385	1,210,207	390,663
2051411	Pies.....	724,137	185,906	600,641	146,750
2051511	Pastries, all types of baking powder leavened only, including cream puffs, eclairs, lady fingers, french pastry, etc.....	xxx	30,029	xxx	20,792
2051611	Cookies, all types of hard and soft sweetened cookies and wafers (hand-made).....	65,288	24,219	80,596	25,115
2051711	Doughnuts, cake type (baking powder leavened).....	(1,000 dozen)	375,929	(1,000 dozen)	309,591
		(1,000 pounds baked weight)		(1,000 pounds baked weight)	
2051000	Bakery products, not specified by kind.....	xxx	43,162	xxx	164,891
	INDUSTRY 2051, BREAD AND RELATED PRODUCTS				
2051----	Bread and related products, total.....	xxx	2,994,658	xxx	2,349,912
20511	Bread and bread type rolls.....	xxx	2,004,371	xxx	1,346,589
	Bread:				
2051111	White, pan.....	8,595,955	1,292,818	8,499,691	935,390
2051113	White, hearth.....	252,345	38,867	306,117	37,882
2051115	Whole wheat, cracked wheat, and other dark wheat breads.....	994,611	159,192	891,799	105,288
2051117	Rye, including pumpernickel.....	619,768	100,124	612,841	77,948
2051119	Raisin and other specialty breads.....	327,082	57,444	192,215	27,777
2051131	Rolls, bread type (including kaiser, parkerhouse, hamburger, and wiener rolls, etc.).....	1,494,202	300,809	940,357	152,206
2051198	Other bread and other bread type rolls.....	xxx	2,660	...	...
2051100	Bread and other bread type rolls, not specified by kind.....	xxx	52,457	xxx	10,098
2051211	Sweet yeast goods, all types, including sweet rolls, coffee cake, puff pastry, and yeast-raised doughnuts.....	614,842	228,307	609,918	181,510
2051311	Soft cakes, all types, including pound, layer, fruit, etc.....	1,046,594	369,835	1,199,986	386,446
2051411	Pies.....	711,530	182,820	600,089	146,466
2051511	Pastries, all types of baking powder leavened only, including cream puffs, eclairs, lady fingers, french pastry, etc.....	xxx	29,952	xxx	20,695
2051611	Cookies, all types of hard and soft sweetened cookies and wafers (hand-made).....	64,292	23,843	76,464	24,142
2051711	Doughnuts, cake type (baking powder leavened).....	(1,000 dozen)	374,990	(1,000 dozen)	308,137
		(1,000 pounds baked weight)		(1,000 pounds baked weight)	
2051000	Bakery products, not specified by kind.....	xxx	42,404	xxx	164,177
	WHOLESALE BAKERIES				
2051----	Bread and related products, total.....	xxx	(NA)	xxx	(NA)
20511	Bread and bread type rolls.....	xxx	1,647,418	xxx	1,081,973
	Bread:				
2051111	White, pan.....	6,998,545	1,063,504	6,954,437	760,889
2051113	White, hearth.....	203,932	31,137	246,341	29,912
2051115	Whole wheat, cracked wheat, and other dark wheat breads.....	804,268	129,823	702,625	82,230
2051117	Rye, including pumpernickel.....	501,765	81,103	476,687	59,565
2051119	Raisin and other specialty breads.....	215,446	37,581	127,153	17,810
2051131	Rolls, bread type (including kaiser, parkerhouse, hamburger, and wiener rolls, etc.).....	1,285,675	256,201	800,234	122,867
2051198	Other bread and other bread type rolls.....	xxx	2,337	xxx	xxx
2051100	Bread and other bread type rolls, not specified by kind.....	xxx	45,732	xxx	xxx
2051211	Sweet yeast goods, all types, including sweet rolls, coffee cake, puff pastry and yeast-raised doughnuts.....	384,282	142,758	354,223	92,959
2051311	Soft cakes, all types, including pound, layer, fruit, etc.....	778,116	267,326	831,391	254,242
2051411	Pies.....	585,216	147,414	505,071	116,460
2051511	Pastries, all types of baking powder leavened only, including cream puffs, eclairs, lady fingers, french pastry, etc.....	xxx	19,664	xxx	10,822
2051611	Cookies, all types of hard and soft sweetened cookies and wafers (hand-made).....	52,126	18,890	51,328	14,915
2051711	Doughnuts, cake type (baking powder leavened).....	(1,000 dozen)	265,269	(1,000 dozen)	204,660
		(1,000 pounds baked weight)		(1,000 pounds baked weight)	
2051000	Bakery products, not specified by kind.....	xxx	(NA)	xxx	110,598

See footnotes at end of table.

## MANUFACTURES - INDUSTRY STATISTICS

Table 6A.—QUANTITY AND VALUE OF PRODUCTS SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, FOR THE UNITED STATES: 1954 AND 1947--Continued

Product code	Product	Total shipments including interplant transfers			
		1954		1947	
		Quantity	Value	Quantity	Value
	GROCERY CHAIN BAKERIES	(1,000 pounds baked weight)	(\$1,000)	(1,000 pounds baked weight)	(\$1,000)
2051----	Bread and related products, total.....	xxx	(NA)	xxx	(NA)
20511	Bread and bread type rolls.....	xxx	140,081	xxx	72,430
	Bread:				
2051111	White, pan.....	762,141	87,209	558,943	53,656
2051113	White, hearth.....	12,858	1,856		
2051115	Whole wheat, cracked wheat, and other dark wheat breads.....	90,630	11,864		
2051117	Rye, including pumpernickel.....	51,296	6,923		
2051119	Raisin and other specialty breads.....	65,708	10,487	22,847	3,120
2051131	Rolls, bread type (including kaiser, parkerhouse, hamburger, and wiener rolls, etc.).....	103,232	21,147	29,247	5,426
2051198	Other bread and other bread type rolls.....	xxx	26	xxx	xxx
2051100	Bread and other bread type rolls, not specified by kind.....	xxx	569	xxx	xxx
2051211	Sweet yeast goods, all types, including sweet rolls, coffee cake, puff pastry and yeast-raised doughnuts.....	84,062	24,323	48,299	14,097
2051311	Soft cakes, all types, including pound, layer, fruit, etc.....	133,516	40,535	126,533	48,335
2051411	Pies.....	46,628	12,397	198	
2051511	Pastries, all types of baking powder leavened only, including cream puffs, eclairs, lady fingers, french pastry, etc.....	xxx	646	xxx	
2051611	Cookies, all types of hard and soft sweetened cookies and wafers (hand-made).....	2,901	838	167	
2051711	Doughnuts, cake type (baking powder leavened).....	(1,000 dozen)	65,650	(1,000 dozen)	52,332
2051000	Bakery products, not specified by kind.....	(1,000 pounds baked weight)	xxx	(1,000 pounds baked weight)	xxx
	HOUSE-TO-HOUSE BAKERIES				
2051----	Bread and related products, total.....	xxx	(NA)	xxx	(NA)
20511	Bread and bread type rolls.....	xxx	182,036	xxx	141,411
	Bread:				
2051111	White, pan.....	745,934	129,672	812,727	101,132
2051113	White, hearth.....	25,224	4,162	37,537	5,054
2051115	Whole wheat, cracked wheat, and other dark wheat breads.....	80,868	14,862	101,034	12,999
2051117	Rye, including pumpernickel.....	43,668	8,024	55,897	7,851
2051119	Raisin and other specialty breads.....	32,829	7,113	21,221	3,505
2051131	Rolls, bread type (including kaiser, parkerhouse, hamburger, and wiener rolls, etc.).....	65,168	14,452	48,417	10,503
2051198	Other bread and other bread type rolls.....	xxx	297	---	---
2051100	Bread and other bread type rolls, not specified by kind.....	xxx	3,454	xxx	367
2051211	Sweet yeast goods, all types, including sweet rolls, coffee cake, puff pastry and yeast-raised doughnuts.....	83,001	36,326	110,086	39,598
2051311	Soft cakes, all types, including pound, layer, fruit, etc.....	77,499	37,209	128,406	48,766
2051411	Pies.....	34,352	12,245	33,506	11,447
2051511	Pastries, all types of baking powder leavened only, including cream puffs, eclairs, lady fingers, french pastry, etc.....	xxx	4,172	xxx	2,122
2051611	Cookies, all types of hard and soft sweetened cookies and wafers (hand-made).....	3,478	1,506	7,797	2,827
2051711	Doughnuts, cake type (baking powder leavened).....	(1,000 dozen)	25,023	(1,000 dozen)	23,244
2051000	Bakery products, not specified by kind.....	(1,000 pounds baked weight)	xxx	(1,000 pounds baked weight)	xxx
	RETAIL MULTI-OUTLET BAKERIES				
2051----	Bread and related products, total.....	xxx	(NA)	( <sup>2</sup> )	( <sup>2</sup> )
20511	Bread and bread type rolls.....	xxx	34,836	xxx	50,775
	Bread:				
2051111	White, pan.....	89,335	12,433	175,717	19,915
2051113	White, hearth.....	10,331	1,712	20,106	2,714
2051115	Whole wheat, cracked wheat, and other dark wheat breads.....	18,845	2,643	33,705	4,204
2051117	Rye, including pumpernickel.....	23,039	4,074	44,865	6,139
2051119	Raisin and other specialty breads.....	13,099	2,263	20,994	3,342
2051131	Rolls, bread type (including kaiser, parkerhouse, hamburger, and wiener rolls, etc.).....	40,127	9,009	62,459	13,410
2051100	Bread and other bread type rolls, not specified by kind.....	xxx	2,702	xxx	1,051
2051211	Sweet yeast goods, all types, including sweet rolls, coffee cake, puff pastry and yeast-raised doughnuts.....	63,497	24,900	97,310	34,856
2051311	Soft cakes, all types, including pound, layer, fruit, etc.....	57,463	24,765	113,656	45,033
2051411	Pies.....	45,334	10,764	61,314	18,501
2051511	Pastries, all types of baking powder leavened only, including cream puffs, eclairs, lady fingers, french pastry, etc.....	xxx	5,470	xxx	7,709
2051611	Cookies, all types of hard and soft sweetened cookies and wafers (hand-made).....	5,787	2,609	17,172	6,358
2051711	Doughnuts, cake type (baking powder leavened).....	(1,000 dozen)	19,048	(1,000 dozen)	27,901
2051000	Bakery products, not specified by kind.....	(1,000 pounds baked weight)	xxx	(1,000 pounds baked weight)	xxx

See footnotes at end of table.



BAKERY PRODUCTS

20E-15

Table 6A.—QUANTITY AND VALUE OF PRODUCTS SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, FOR THE UNITED STATES: 1954 AND 1947—Continued

Product code	Product	Total shipments including interplant transfers			
		1954		1947	
		Quantity	Value	Quantity	Value
	OTHER MANUFACTURING INDUSTRIES INCLUDING INDUSTRY 2052, BISCUIT AND CRACKERS	(1,000 pounds baked weight)	(\$1,000)	(1,000 pounds baked weight)	(\$1,000)
2051---	Bread and related products, total.....	xxx	17,451	xxx	10,170
20511	Bread and bread type rolls.....	xxx	4,845	xxx	2,910
	Bread:				
2051111	White, pan.....	18,335	2,323	21,466	2,170
2051113	White, hearth.....	475	89	xxx	xxx
2051115	Whole wheat, cracked wheat, and other dark wheat breads.....	1,418	196	1,612	199
2051117	Rye including pumpernickle.....	510	79	550	68
2051119	Raisin and other specialty breads.....	893	159	261	36
2051131	Rolls, bread type (including kaiser, parkerhouse, hamburger, and wiener rolls, etc.).....	7,422	1,589	2,434	437
2051100	Bread and bread type rolls, not specified by kind.....	xxx	410	xxx	xxx
2051211	Sweet yeast goods, all types, including sweet rolls, coffee cake, puff pastry, and yeast-raised doughnuts.....	16,000	5,616	2,410	659
2051311	Soft cakes, all types, including pound, layer, fruit, etc.....	8,437	2,550	10,221	4,217
2051411	Pies.....	12,607	3,086	552	284
2051511	Pastries, all types of baking powder leavened only, including cream puffs, eclairs, lady fingers, french pastry, etc.....	xxx	77	xxx	97
2051611	Cookies, all types of hard and soft sweetened cookies and wafers (hand-made).....	995	376	4,132	973
2051711	Doughnuts, cake type, (baking powder leavened).....	(1,000 dozen) 831	143	(1,000 dozen) 1,454	316
2051000	Bakery products, not specified by kind.....	(1,000 pounds baked weight) xxx	758	(1,000 pounds baked weight) xxx	714
	ALL MANUFACTURERS (Except retail bakeries)				
2052---	Biscuit, crackers, and pretzels, total.....	xxx	786,851	xxx	557,805
2052011	Cookies, all types of hard and soft sweetened cookies and wafers (machine-made)...	1,389,111	465,243	1,027,216	327,102
2052031	Crackers, sponge, graham, sprayed varieties, and low-sugar content biscuit.....	1,122,225	294,417	983,790	213,326
2052051	Pretzels.....	88,220	25,722	74,168	17,377
2052098	Other biscuit, crackers, and pretzels.....	xxx	1,469	xxx	xxx
	INDUSTRY 2052, BISCUIT AND CRACKERS				
2052---	Biscuit, crackers, and pretzels, total.....	xxx	735,301	xxx	519,950
2052011	Cookies, all types of hard and soft sweetened cookies and wafers (machine-made)...	1,231,945	421,416	921,382	297,507
2052031	Crackers, sponge, graham, sprayed varieties, and low-sugar content biscuit.....	1,097,174	288,456	951,020	206,389
2052051	Pretzels.....	81,327	24,005	68,835	16,054
2052098	Other biscuit, crackers, and pretzels.....	xxx	1,424	xxx	xxx
	OTHER MANUFACTURING INDUSTRIES INCLUDING INDUSTRY 2051, BREAD AND RELATED PRODUCTS				
2052---	Biscuit, crackers, and pretzels, total.....	xxx	51,550	xxx	37,855
2052011	Cookies, all types of hard and soft sweetened cookies and wafers (machine-made)...	157,166	43,827	105,834	29,595
2052031	Crackers, sponge, graham, sprayed varieties, and low-sugar content biscuit.....	25,051	5,961	32,770	6,937
2052051	Pretzels.....	6,893	1,717	5,333	1,323
2052098	Other biscuit, crackers, and pretzels.....	xxx	45	xxx	xxx

xxx Not applicable.

NA Not available.

<sup>1</sup>Comparable statistics for all commercial bakeries, including retail bakeries, are shown in Table 6B below.

<sup>2</sup>This subindustry as defined for 1947 included establishments of multi-unit enterprises with baking on the premises at each location; such establishments were classified in retail trade (S.I.C. code 5462) for 1954. Therefore the 1947 figures for "retail multi-outlet bakeries" are not closely comparable to the 1954 figures.

Table 6B.—QUANTITY AND VALUE OF BAKERY PRODUCTS SOLD BY MANUFACTURING AND RETAIL BAKERIES, 1954 AND 1939

Product code	Product	Unit of quantity	1954						1939 <sup>3</sup> total	
			Total <sup>1</sup>		Made in manufacturing bakeries (S.I.C. 2051) <sup>2</sup>		Made in retail bakeries, with baking on premises (S.I.C. 5462)			
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)	Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
2051---	Bread and other "perishable" bakery products, total.....	.....	xxx	3,598,712	xxx	3,012,109	xxx	586,603	xxx	1,185,197
20511	Bread and bread-type rolls.....	1,000 lbs..	13,674,860	2,198,441	12,662,971	2,009,216	1,011,889	189,225	} 10,480,950	797,297
20512	Sweet yeast goods.....	..do.....	955,780	376,248	630,842	233,923	324,938	142,325		
20513	Soft cakes.....	..do.....	xxx	478,151	1,055,031	372,385	xxx	105,766	953,195	186,131
20514	Pies.....	..do.....	816,309	232,084	724,137	185,906	92,172	46,178	xxx	75,121
20515	Pastries.....	..do.....	xxx	70,852	xxx	30,029	xxx	40,823	xxx	24,346
20516	Cookies (hand made).....	1,000 lbs..	125,740	60,367	65,288	24,219	60,452	36,148	111,986	19,716
20517	Doughnuts (cake type).....	1,000 dozen	xxx	139,407	375,929	113,269	xxx	26,138	336,019	55,375
20510	Bakery products, not specified by kind.....	.....	xxx	43,162	xxx	43,162	xxx	xxx	xxx	27,214

xxx Not applicable.

<sup>1</sup>Represents total commercial production, except for production in bakeries with no paid employees (family enterprises). In 1954, there were 3,932 "bakery products stores" with no paid employees represented in the Census of Business, with sales of \$59,668 thousand. "Value" represents factory value for wholesale bakeries, retail value for retail bakeries.

<sup>2</sup>Including small amounts made in other manufacturing industries (principally the Biscuit and Cracker Industry, S.I.C. 2052).

<sup>3</sup>Represents total commercial production except for production in bakeries with annual sales of less than \$5 thousand.

## MANUFACTURES - INDUSTRY STATISTICS

Table 6C.—VALUE OF PRODUCT CLASSES SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, BY DIVISIONS AND STATES FOR 1954, AND UNITED STATES TOTALS FOR EARLIER YEARS

In thousands of dollars. Statistics are shown for selected product classes which are economically significant and production of which is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (Table 2) and they are not miscellaneous or "not specified by type" classes. For each product class, States are listed only if the value of shipments is more than \$1 million and the figure does not disclose individual company information. Additional States which had shipments of more than \$1 million of the individual product classes are listed in footnote 1)

Product class, region, and State <sup>1</sup>	Value of shipments	Product class, region, and State <sup>1</sup>	Value of shipments	Product class, region and State <sup>1</sup>	Value of shipments
<b>Bread and bread type rolls (20511)</b>		<b>Sweet yeast goods (20512)</b>		<b>Soft cakes (20513)—Continued</b>	
1954 United States, total.....	2,009,216	1954 United States, total.....	233,923		
1947 United States, total.....	1,349,499	1947 United States, total.....	182,169	East North Central.....	77,136
1954		1954		Ohio.....	27,814
New England.....	128,342	New England.....	12,492	Indiana.....	4,554
Massachusetts.....	15,277	Massachusetts.....	6,367	Illinois.....	24,184
New Hampshire.....	4,936	Rhode Island.....	1,810	Michigan.....	15,361
Vermont.....	4,217	Connecticut.....	3,113	Wisconsin.....	5,222
Massachusetts.....	62,397	Middle Atlantic.....	66,575	West North Central.....	27,613
Rhode Island.....	14,227	New York.....	37,359	Minnesota.....	3,501
Connecticut.....	27,285	New Jersey.....	8,903	Iowa.....	1,903
Middle Atlantic.....	430,862	Pennsylvania.....	20,313	Missouri.....	17,830
New York.....	206,545	East North Central.....	76,922	Nebraska.....	2,350
New Jersey.....	63,425	Ohio.....	24,936	Kansas.....	1,933
Pennsylvania.....	160,892	Indiana.....	7,372	South Atlantic.....	50,711
East North Central.....	472,266	Illinois.....	20,768	Maryland.....	6,742
Ohio.....	178,075	Michigan.....	17,201	District of Columbia.....	4,019
Indiana.....	52,777	Wisconsin.....	6,644	Virginia.....	5,873
Illinois.....	112,902	West North Central.....	21,191	West Virginia.....	3,264
Michigan.....	89,804	Minnesota.....	3,838	North Carolina.....	12,162
Wisconsin.....	38,708	Iowa.....	3,678	Georgia.....	10,747
West North Central.....	178,585	Missouri.....	7,416	Florida.....	5,405
Minnesota.....	32,266	Nebraska.....	3,102	East South Central.....	14,913
Iowa.....	33,060	Kansas.....	1,827	Kentucky.....	3,042
Missouri.....	64,013	South Atlantic.....	13,139	Tennessee.....	6,849
North Dakota.....	5,653	Maryland.....	3,461	Alabama.....	4,030
South Dakota.....	6,019	Virginia.....	1,136	West South Central.....	20,794
Nebraska.....	17,570	West Virginia.....	1,497	Arkansas.....	2,340
Kansas.....	20,002	North Carolina.....	1,044	Louisiana.....	4,031
South Atlantic.....	250,593	Georgia.....	2,423	Oklahoma.....	1,799
Delaware.....	4,864	Florida.....	2,326	Texas.....	12,623
Maryland.....	36,182	East South Central.....	3,948	Mountain.....	3,574
District of Columbia.....	19,579	Kentucky.....	1,980	Colorado.....	1,895
Virginia.....	34,783	West South Central.....	11,268	Pacific.....	28,776
West Virginia.....	25,310	Louisiana.....	2,009	Washington.....	4,729
North Carolina.....	40,624	Oklahoma.....	1,323	Oregon.....	1,404
South Carolina.....	15,140	Texas.....	7,261	California.....	22,643
Georgia.....	35,779	Mountain.....	5,022		
Florida.....	38,331	Colorado.....	1,984	<b>Pies (20514)</b>	
East South Central.....	99,670	Pacific.....	23,366	1954 United States, total.....	185,906
Kentucky.....	24,428	Washington.....	2,371	1947 United States, total.....	146,750
Tennessee.....	39,011	Oregon.....	2,448		
Alabama.....	23,394	California.....	18,547	1954	
Mississippi.....	12,836			New England.....	18,755
West South Central.....	172,268			Massachusetts.....	12,687
Arkansas.....	15,007			Connecticut.....	4,703
Louisiana.....	35,420			Middle Atlantic.....	56,124
Oklahoma.....	22,264			New York.....	24,780
Texas.....	99,577			New Jersey.....	7,644
Mountain.....	59,002			Pennsylvania.....	23,699
Montana.....	6,700			East North Central.....	41,470
Idaho.....	4,627			Ohio.....	11,285
Wyoming.....	1,374			Indiana.....	3,531
Colorado.....	18,745			Illinois.....	15,487
New Mexico.....	4,742			Michigan.....	9,479
Arizona.....	10,767			Wisconsin.....	1,687
Utah.....	10,530			West North Central.....	7,589
Nevada.....	1,786			Minnesota.....	1,857
Pacific.....	217,627			Missouri.....	3,583
Washington.....	27,916				
Oregon.....	21,109				
California.....	168,602				

See footnote at end of table.

BAKERY PRODUCTS

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Table 6C.—VALUE OF PRODUCT CLASSES SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, BY DIVISIONS AND STATES FOR 1954, AND UNITED STATES TOTALS FOR EARLIER YEARS--Continued

Product class, region, and State <sup>1</sup>	Value of shipments	Product class, region, and State <sup>1</sup>	Value of shipments	Product class, region, and State <sup>1</sup>	Value of shipments
<u>Pies (20514)--Continued</u>		<u>Pastries (20515)--Continued</u>		<u>Doughnuts, cake type (20517)</u>	
South Atlantic.....	16,163	West North Central.....	1,940	1954 United States, total.....	113,269
Maryland.....	3,743	South Atlantic.....	1,867	1947 United States, total.....	80,203
Virginia.....	2,569	East South Central.....	996	1954	
North Carolina.....	1,856	West South Central.....	1,154	New England.....	16,518
Georgia.....	2,477	Mountain.....	637	Maine.....	4,488
Florida.....	2,144	Pacific.....	2,457	Massachusetts.....	7,627
East South Central.....	9,107	California.....	2,241	Rhode Island.....	1,744
Kentucky.....	2,480	<u>Cookies, hand made (20516)</u>		Connecticut.....	1,280
Tennessee.....	6,040	1954 United States, total.....	24,219	Middle Atlantic.....	30,639
West South Central.....	8,808	1947 United States, total.....	25,115	New York.....	16,451
Louisiana.....	1,269	1954		New Jersey.....	4,829
Oklahoma.....	2,009	New England.....	1,175	Pennsylvania.....	9,359
Texas.....	5,191	Middle Atlantic.....	5,198	East North Central.....	30,339
Mountain.....	2,940	New York.....	3,214	Ohio.....	8,960
Idaho.....	254	Pennsylvania.....	1,520	Indiana.....	1,698
Colorado.....	1,244	East North Central.....	4,286	Illinois.....	9,112
Pacific.....	24,948	Illinois.....	1,369	Michigan.....	8,044
Washington.....	2,054	Michigan.....	1,149	Wisconsin.....	2,524
Oregon.....	1,628	West North Central.....	3,152	West North Central.....	7,743
California.....	21,265	Iowa.....	2,425	Minnesota.....	2,412
<u>Pastries (20515)</u>		South Atlantic.....	2,930	Missouri.....	2,879
1954 United States, total.....	30,029	North Carolina.....	1,062	Nebraska.....	1,096
1947 United States, total.....	20,792	East South Central.....	1,273	South Atlantic.....	7,279
1954		Alabama.....	1,065	Maryland.....	1,929
New England.....	4,985	West South Central.....	2,459	Georgia.....	1,159
Maine.....	1,052	Texas.....	1,293	Florida.....	2,530
Massachusetts.....	3,013	Mountain.....	344	East South Central.....	2,137
Middle Atlantic.....	11,045	Pacific.....	3,400	West South Central.....	3,246
New York.....	8,313	California.....	2,970	Texas.....	1,871
Pennsylvania.....	1,923			Mountain.....	2,169
East North Central.....	4,947			Colorado.....	1,050
Ohio.....	1,393			Pacific.....	13,199
Illinois.....	1,208			Washington.....	1,423
Michigan.....	1,368			Oregon.....	1,000
				California.....	10,776

<sup>1</sup>For the specified product classes, shipments of over \$1 million were reported for the States listed but the exact figures are withheld to avoid disclosure of individual company figures: 20513, South Carolina; 20514, District of Columbia, and West Virginia; 20516, Florida.



## MANUFACTURES - INDUSTRY STATISTICS

7A.—SELECTED INGREDIENTS USED BY MANUFACTURING BAKERIES: 1954 AND 1947

(Quantity in thousands of pounds; cost in thousands of dollars)

Material code	Material	Industry 2051 - Bread and related products									
		1954					1947				
		Total	Wholesale bakeries	Grocery chain bakeries	House-to-house bakeries	Retail multi-outlet bakeries	Total	Wholesale bakeries	Grocery chain bakeries	House-to-house bakeries	Retail multi-outlet bakeries
	Total cost of materials, ingredients, containers, and supplies: <sup>1</sup>										
	Quantity.....	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx	xxx
	Delivered cost.....	1,456,853	1,130,164	154,611	117,835	54,243	1,243,727	919,527	96,520	125,085	1102,595
204111	Wheat flour:										
	Quantity.....	8,656,077	6,928,305	723,228	814,329	190,213	8,273,500	6,653,600	511,600	787,000	321,300
	Delivered cost.....	538,939	431,163	45,991	50,485	11,300	495,518	394,447	31,238	48,790	21,043
206011	Sugar (cane and beet):										
	Quantity.....	1,146,491	874,191	119,294	100,348	52,657	900,575	659,474	62,513	84,615	93,973
	Delivered cost.....	98,959	74,893	10,430	8,943	4,693	77,084	56,125	5,576	7,236	8,147
209211	Shortening:										
	Quantity.....	253,522	168,785	39,296	27,062	18,379	260,474	172,726	21,520	32,023	34,205
	Delivered cost.....	56,339	38,198	8,022	5,941	4,178	83,207	54,093	7,515	10,321	11,278
201011	Lard:										
	Quantity.....	291,238	234,144	24,232	24,232	6,316	247,490	196,255	12,250	25,862	13,123
	Delivered cost.....	55,023	44,585	4,316	4,931	1,188	65,491	51,864	3,296	6,696	3,635
200011	Other fats and oils (including oils, butter, margarine, puff paste, etc.):										
	Quantity.....	84,043	58,005	11,908	6,262	7,868	54,295	33,170	(D)	(D)	10,560
	Delivered cost.....	23,966	16,555	2,653	1,783	2,975	18,910	10,242	(D)	(D)	5,258
202311	Dried milk:										
	Quantity.....	242,548	189,116	25,622	23,718	4,092	215,036	169,091	16,251	19,838	9,856
	Delivered cost.....	37,782	29,660	3,808	3,615	699	28,007	21,616	2,257	2,548	1,586
209911	Frozen eggs:										
	Quantity.....	155,289	99,886	25,209	15,154	15,040	187,563	117,137	20,759	22,429	27,238
	Delivered cost.....	48,912	31,888	7,089	4,813	5,123	63,065	39,056	6,576	7,676	9,757
970000	All other materials, ingredients, etc:										
	Quantity.....						xxx	xxx	xxx	xxx	xxx
	Delivered cost.....						306,730	215,707	(D)	(D)	21,988
971000	Materials, ingredients, etc., not specified by kind:										
	Quantity.....	xxx	xxx	xxx	xxx	xxx					
	Delivered cost.....	2596,933	2468,222	272,302	237,324	224,087					
							xxx	xxx	xxx	xxx	xxx
							105,718	76,377	1,930	7,505	19,903
Industry 2052 - Biscuit, crackers, and pretzels											
		1954					1947				
		Quantity		Delivered cost			Quantity		Delivered cost		
	Total cost of materials, ingredients, containers, and supplies.....			xxx					xxx		
204111	Wheat flour.....			1,723,161					1,428,800		
206011	Sugar (cane and beet).....			412,727					238,521		
209211	Shortening.....			101,191					55,398		
201011	Lard.....			119,934					103,107		
200011	Other fats and oils (including oils, butter, margarine, puff paste, etc.).....			102,736					70,943		
202311	Dried milk.....			10,814					8,893		
209911	Frozen eggs.....			9,944					9,139		
970000	All other materials, ingredients, etc.....										
971000	Materials, ingredients, etc., not specified by kind.....			xxx					xxx		

xxx Not applicable.

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>Includes consumption by multi-unit enterprises with baking on the premises at each location, which were classified in retail trade in 1954. For this reason, the 1947 data for retail multi-outlet bakeries are not directly comparable to 1954 (see introductory text).

<sup>2</sup> The amounts "not specified by kind" as distinguished from "all other materials" could not be determined exactly for 1954, but were approximately the following: Industry 2051, total - 10-15%; Wholesale Bakeries, 10-15%; Grocery Chain Bakeries, 1-5%; House-to-House Bakeries, 5-10%; Retail Multi-Outlet Bakeries, 15-20%; and Industry 2052, 1-5%. The percentages are applicable to the total cost of materials, etc., on the first line of the table.

<sup>3</sup>Comparable statistics for all commercial bakeries, including retail bakeries, are shown in Table 7B below.

## BAKERY PRODUCTS

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Table 7B.—SELECTED INGREDIENTS USED BY MANUFACTURING AND RETAIL BAKERIES: 1954 AND 1939

Ingredient code	Ingredient	1954						1939 <sup>2</sup> total	
		Total <sup>1</sup>		Used in manufacturing bakeries (S.I.C. 2051)		Used in retail bakeries, with baking on premises (S.I.C. 5462)			
		Quantity (1,000 lbs.)	Cost (\$1,000)	Quantity (1,000 lbs.)	Cost (\$1,000)	Quantity (1,000 lbs.)	Cost (\$1,000)	Quantity (1,000 lbs.)	Cost (\$1,000)
	Total.....	xxx	1,719,259	xxx	1,456,853	xxx	262,406	xxx	539,981
204111	Wheat flour.....	9,851,568	623,819	8,656,077	538,939	1,195,491	84,880	7,485,612	176,148
206011	Sugar (cane and beet).....	1,454,807	129,175	1,146,491	98,959	308,316	30,216	896,923	43,532
209211	Fats and oils.....	816,050	178,767	628,803	135,328	187,247	43,439	619,519	65,412
	Other ingredients and supplies.....	xxx	787,498	xxx	<sup>3</sup> 683,627	xxx	103,871	xxx	<sup>3</sup> 254,889

xxx Not applicable.

<sup>1</sup>Represents total consumption in commercial bakeries, except biscuit and cracker bakeries, and except for consumption in bakeries with no paid employees (family enterprises). (See footnote 1 to Table 6B.)<sup>2</sup>Represents total consumption in commercial bakeries, except biscuit and cracker bakeries, and except for consumption in bakeries with annual sales of less than \$5 thousand.<sup>3</sup>Including containers. For 1939, cost of containers was \$62,138 thousand.

Table 8.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY INDUSTRY SPECIALIZATION AND PRIMARY PRODUCT CLASS SPECIALIZATION, FOR THE UNITED STATES: 1954

(This table presents selected statistics for establishments classified according to their degree of specialization in products primary to the industry. The establishments are classified in two ways: (1) by industry specialization—the degree of specialization in all primary products of the industry; and (2) by product-class specialization—the degree of specialization in the largest product class of the establishment. The degree of "industry specialization" for an establishment represents the ratio of its primary product shipments to its total product shipments, primary and secondary. The degree of "product-class specialization" for an establishment represents the ratio of its largest product class shipments to its total product shipments, primary and secondary. Data are not shown for some industries, product classes, and specialization ranges for a variety of reasons, consequently, detailed figures frequently do not add to the totals. See Introduction for detailed explanation)

Ind. or product class No.	Industry or product class by percent of specialization	Establishments, number	All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
2051	BREAD AND RELATED PRODUCTS (entire industry).....	6,103	246,337	973,546	143,077	293,871	477,972	1,568,933	1,498,088	3,067,017
	Establishments with:									
	90% or more specialization.....	5,976	235,073	935,248	134,665	277,557	452,332	1,506,578	1,423,573	2,930,148
	75-89% specialization.....	69	6,495	23,087	4,927	9,795	15,767	38,108	43,050	81,159
	50-74% specialization.....	45	4,356	14,043	3,184	5,866	9,156	22,134	29,077	51,211
	All other <sup>1</sup> .....	13	411	1,166	299	651	716	2,111	2,387	4,498
20511	Bread and bread type rolls:									
	All establishments specializing in product class.	2,834	188,405	778,871	102,827	212,913	355,975	1,248,110	1,163,438	2,411,546
	Establishments with:									
	90% or more specialization.....	1,398	74,660	325,694	38,245	78,709	136,628	533,781	491,980	1,025,759
	75-89% specialization.....	455	37,216	152,871	20,254	42,651	67,761	228,438	249,621	478,060
	50-74% specialization.....	674	59,171	236,098	33,242	69,320	114,429	366,709	339,758	706,468
	Less than 50% specialization.....	307	17,357	64,207	11,085	22,231	37,156	97,999	103,260	201,259
20512	Sweet yeast goods:									
	All establishments specializing in product class.	339	9,807	34,415	6,617	13,530	21,258	54,424	51,497	105,921
	Establishments with:									
	90% or more specialization.....	54	724	2,354	548	1,126	1,644	3,867	4,107	7,975
	75-89% specialization.....	23	346	1,040	278	490	736	1,690	2,028	3,719
	50-74% specialization.....	105	2,833	10,034	2,056	4,230	6,456	16,304	17,960	34,264
	Less than 50% specialization.....	157	5,902	20,986	3,734	7,682	12,421	32,561	27,400	59,962
20513	Soft cakes:									
	All establishments specializing in product class.	258	17,449	67,292	11,846	24,209	41,309	113,197	106,492	219,689
	Establishments with:									
	90% or more specialization.....	104	5,880	23,135	3,792	7,398	12,650	39,830	38,424	78,255
	75-89% specialization.....	22	3,803	15,479	2,556	5,244	9,058	24,961	23,534	48,496
	50-74% specialization.....	48	2,799	10,699	1,978	4,212	6,917	17,732	20,264	37,996
	Less than 50% specialization.....	84	4,967	17,979	3,519	7,354	12,682	30,672	24,268	54,941
20514	Pies:									
	All establishments specializing in product class.	387	13,623	47,824	9,224	18,339	27,126	72,875	82,325	155,201
	Establishments with:									
	90% or more specialization.....	257	7,079	25,027	4,546	9,187	13,301	40,653	46,386	87,040
	75-89% specialization.....	21	1,203	5,376	721	1,489	2,455	8,039	9,431	17,471
	50-74% specialization.....	59	2,127	5,863	1,486	2,610	3,287	9,309	11,301	20,611
	Less than 50% specialization.....	50	3,213	11,557	2,470	5,052	8,081	14,873	15,206	30,079
	Pastries:									
	All establishments specializing in product class.	109	1,417	4,216	1,005	2,062	2,976	7,392	7,586	14,978
	Establishments with:									
	90% or more specialization.....	47	557	1,751	411	787	1,187	3,122	3,008	6,130
	75-89% specialization.....	8	103	358	79	158	276	717	741	1,459
	50-74% specialization.....	21	280	822	195	379	578	1,155	1,434	2,589
	Less than 50% specialization.....	33	475	1,284	319	736	934	2,398	2,401	4,799
20516	Cookies hand made:									
	All establishments specializing in product class.	106	1,468	3,494	1,167	2,275	2,567	6,665	8,483	15,149
	Establishments with:									
	90% or more specialization.....	63	898	2,049	736	1,428	1,520	4,008	5,261	9,270
20517	Doughnuts, cake type:									
	All establishments specializing in product class.	319	3,390	10,327	2,433	4,791	6,898	18,945	24,135	43,081
	Establishments with:									
	90% or more specialization.....	203	1,678	4,750	1,211	2,376	3,228	9,943	13,112	23,056
	75-89% specialization.....	12	467	1,898	303	580	1,067	3,040	3,866	6,907
	50-74% specialization.....	33	467	1,451	350	702	1,005	2,294	2,882	5,176
	Less than 50% specialization.....	71	777	2,227	568	1,132	1,596	3,666	4,274	7,941
	WHOLESALE BAKERIES.....	5,426	190,195	753,745	109,125	225,379	358,770	1,223,635	1,162,090	2,385,721
	Establishments with:									
	90% or more specialization.....	5,330	183,668	731,993	104,593	216,605	346,002	1,192,719	1,129,699	2,322,414
	75-89% specialization.....	47	3,268	11,658	2,365	4,789	7,189	16,247	15,359	31,607
	50-74% specialization.....	37	2,891	9,045	1,908	3,424	4,967	12,938	15,192	28,131
	All other <sup>1</sup> .....	12	366	1,046	256	557	609	1,729	1,838	3,568
20511	Bread and bread type rolls:									
	All establishments specializing in product class.	2,399	142,143	592,276	76,122	159,160	261,518	957,728	878,143	1,835,870
	Establishments with:									
	90% or more specialization.....	1,320	69,594	304,352	35,482	73,134	126,310	496,703	453,625	950,326
	75-89% specialization.....	388	31,349	128,925	17,492	36,952	57,981	212,986	196,885	409,873
	50-74% specialization.....	478	36,524	143,904	20,092	42,930	67,737	224,801	203,043	427,845
	Less than 50% specialization.....	213	4,675	15,094	3,054	6,141	9,488	23,236	24,588	47,825

See footnote at end of table.



## BAKERY PRODUCTS

20E-21

Table 8.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY INDUSTRY SPECIALIZATION AND PRIMARY PRODUCT CLASS SPECIALIZATION, FOR THE UNITED STATES: 1954—Continued

Ind. or product class No.	Industry or product class by percent of specialization	Establishments, number	All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
20512	WHOLESALE BAKERIES--Continued									
	Sweet yeast goods:									
	All establishments specializing in product class.	263	6,994	25,615	4,728	9,715	15,137	40,997	39,522	80,519
	Establishments with:									
	90% or more specialization.....	49	670	2,238	498	1,026	1,542	3,670	3,849	7,520
	75-89% specialization.....	23	346	1,040	278	490	736	1,690	2,028	3,719
20513	Soft cakes:									
	All establishments specializing in product class.	190	12,611	49,465	8,258	16,725	28,047	82,111	79,358	161,469
	Establishments with:									
	90% or more specialization.....	93	5,453	21,661	3,454	6,726	11,577	37,139	35,350	72,489
	75-89% specialization.....	17	3,652	15,068	2,457	5,013	8,714	24,342	22,720	47,063
	50-74% specialization.....	36	2,268	8,532	1,515	3,187	5,038	13,946	15,467	29,414
20514	Pies:									
	All establishments specializing in product class.	364	12,824	44,985	8,533	16,934	24,572	68,294	77,185	145,480
	Establishments with:									
	90% or more specialization.....	255	7,075	25,024	4,543	9,184	13,298	40,648	46,379	87,028
	75-89% specialization.....	21	1,203	5,376	720	1,489	2,455	8,039	9,431	17,470
	50-74% specialization.....	56	2,062	5,746	1,428	2,496	3,187	9,163	11,074	20,237
20515	Pastries:									
	All establishments specializing in product class.	94	1,045	3,137	762	1,571	2,292	5,784	6,027	11,811
	Establishments with:									
	90% or more specialization.....	45	500	1,541	375	717	1,061	2,734	2,763	5,497
	75-89% specialization.....	8	103	358	79	158	276	741	741	1,459
	50-74% specialization.....	14	125	341	94	176	288	486	706	1,193
20516	Cookies, hand made:									
	All establishments specializing in product class.	101	1,366	3,261	1,076	2,096	2,357	6,222	8,035	14,258
	Establishments with:									
	90% or more specialization.....	62	849	1,944	689	1,331	1,418	3,730	4,964	8,695
20517	Doughnuts, cake type:									
	All establishments specializing in product class.	303	3,184	9,672	2,290	4,496	6,473	17,716	22,904	40,621
	Establishments with:									
	90% or more specialization.....	196	1,583	4,476	1,135	2,232	3,054	9,460	12,595	22,056
	75-89% specialization.....	12	467	1,898	303	580	1,067	3,040	3,866	6,907
	50-74% specialization.....	32	455	1,424	337	676	978	2,264	2,843	5,108
20511	GROCERY CHAIN BAKERIES.....	142	16,233	60,078	14,382	28,198	50,964	107,974	157,877	265,851
	Establishments with:									
	90% or more specialization.....	131	13,022	48,737	11,452	22,659	41,040	87,751	125,088	212,840
	Bread and bread type rolls:									
	All establishments specializing in product class.	105	14,282	53,034	12,650	24,682	44,733	96,933	143,489	240,423
	Establishments with:									
20513	90% or more specialization.....	30	1,784	7,048	1,500	3,008	5,640	17,992	20,585	38,578
	75-89% specialization.....	14	1,044	4,055	844	1,661	2,999	7,873	9,919	17,792
	50-74% specialization.....	41	6,974	26,044	6,281	12,417	22,534	43,148	68,872	112,021
	Less than 50% specialization.....	20	4,479	15,887	4,023	7,595	13,559	27,919	44,112	72,032
	Soft cakes:									
	All establishments specializing in product class.	19	1,272	4,605	1,127	2,284	4,086	7,384	9,879	17,263
20511	Establishments with:									
	90% or more specialization.....	7	318	1,096	269	547	924	1,913	2,591	4,505
	HOUSE-TO-HOUSE BAKERIES.....	217	28,094	120,962	11,434	23,922	40,594	175,517	122,033	297,541
	Establishments with:									
	90% or more specialization.....	206	26,881	116,838	10,751	22,474	38,570	167,214	115,693	282,908
	Bread and bread type rolls:									
	All establishments specializing in product class.	185	27,425	118,956	10,995	23,014	39,386	172,722	119,556	292,279
	Establishments with:									
	90% or more specialization.....	34	3,051	13,603	1,104	2,250	4,218	18,117	16,799	34,917
	75-89% specialization.....	32	4,479	18,863	1,656	3,504	5,907	26,481	19,089	45,571
	50-74% specialization.....	90	13,989	60,950	5,717	11,759	20,284	90,445	59,121	149,567
	Less than 50% specialization.....	29	5,905	25,539	2,517	5,499	8,977	37,677	24,545	62,223

See footnote at end of table.

## MANUFACTURES - INDUSTRY STATISTICS

Table 8.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY INDUSTRY SPECIALIZATION AND PRIMARY PRODUCT CLASS SPECIALIZATION, FOR THE UNITED STATES: 1954—Continued

Ind. or product class No.	Industry or product class by percent of specialization	Establishments, number	All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
20512	HOUSE-TO-HOUSE BAKERIES--Continued									
	Sweet yeast goods:									
	All establishments specializing in product class.	12	243	688	182	347	501	1,006	971	1,978
	Establishments with:									
	50-74% specialization.....	4	58	126	49	82	97	171	214	386
20511	Less than 50% specialization.....	8	185	562	133	265	404	835	757	1,592
	RETAIL MULTI-OUTLET BAKERIES.....	318	11,813	38,760	8,134	16,370	27,642	61,805	50,087	117,892
	Establishments with:									
	90% or more specialization.....	309	11,500	37,678	7,867	15,816	26,718	58,893	53,092	111,984
	75-89% specialization.....	5	189	709	180	369	676	2,196	1,911	4,108
20511	Bread and bread type rolls:									
	All establishments specializing in product class.	145	4,554	14,603	3,059	6,056	10,335	20,725	22,248	42,973
	Establishments with:									
	90% or more specialization.....	14	229	689	157	315	458	967	969	1,937
	75-89% specialization.....	21	344	1,028	260	532	872	2,279	2,543	4,823
20512	50-74% specialization.....	65	1,683	5,199	1,152	2,213	3,873	8,312	8,721	17,034
	Less than 50% specialization.....	45	2,297	7,686	1,489	2,994	5,131	9,165	10,013	19,178
	Sweet yeast goods:									
	All establishments specializing in product class.	57	2,456	7,807	1,611	3,261	5,366	11,970	10,439	22,410
	Establishments with:									
20513	90% or more specialization.....	4	36	57	33	61	51	107	100	207
	50-74% specialization.....	8	212	530	114	238	273	978	653	1,632
	Less than 50% specialization.....	45	2,208	7,220	1,464	2,961	5,041	10,885	9,685	20,570
	Soft cakes:									
	All establishments specializing in product class.	42	3,360	12,547	2,344	4,901	8,867	22,836	16,537	39,374
20515	Establishments with:									
	90% or more specialization.....	4	108	377	68	123	148	778	482	1,260
	Pastries:									
	All establishments specializing in product class.	12	262	683	179	362	476	957	1,136	2,093
	Establishments with:									
20517	50-74% specialization.....	6	103	295	73	144	208	405	550	956
	Less than 50% specialization.....	6	159	388	106	217	268	551	586	1,137
	Doughnuts, cake type:									
	All establishments specializing in product class.	12	111	353	71	144	229	746	715	1,461
	Establishments with:									
20517	90% or more specialization.....	5	21	49	21	31	40	98	109	208

<sup>1</sup>This class includes data for establishments with less than 50% specialization in the primary products of the industry and establishments engaged exclusively in contract work defined in the industry. Miscellaneous small statistical adjustments are also included.







## Sugar, Confectionery, and Related Products

This report shows 1954 Census of Manufactures statistics for establishments classified into each of the following industries:

<u>Code</u>	<u>Title</u>
2061	Raw Cane Sugar
2062	Cane-Sugar Refining
2063	Beet Sugar
2071	Confectionery Products
2072	Chocolate And Cocoa Products
2073	Chewing Gum

Sugar excise taxes are not included in the cost of materials, value of shipments, or value added by manufacture for the sugar producing industries (2061, 2062 and 2063).

2061—Raw Cane Sugar (Full Standard Industrial Classification title: Cane Sugar (Except Refining))

Industry 2061, Raw Cane Sugar, comprises establishments primarily engaged in manufacturing raw sugar, sirup, or finished (granulated or clarified) cane sugar from sugar cane. Establishments primarily engaged in refining sugar from purchased raw cane sugar and sugar sirup are classified in Industry 2062, Cane Sugar Refining, and corn sirup in Industry 2094, Corn products. For a detailed list of products of Industry 2061, refer to Table 6A, product codes 2061211 to 2061298.

The value of shipments of Industry 2061 in 1954 totaled \$65 million. This included shipments of raw cane sugar and other cane sugar mill products (primary products) valued at \$62 million, and shipments of other products and miscellaneous receipts valued at \$3 million.

Industry 2061 shipments of raw cane sugar and sugar mill products (primary products) in 1954 represented 96 percent of its total product shipments (primary and secondary). In 1947, the percentage was 97. Industry 2061 accounted for 97 percent of the raw cane sugar and cane sugar mill products shipped by United States producers in 1954.

Sugar cane grown on plantations during the first nine months of the year is usually harvested and processed during the last three. In some instances the processing carries over to the early months of the following year. Establishments in Industry 2061 reported on the basis of the 1954 crop year rather than the calendar year where the two did not coincide, except for employment and payroll data which were reported for the calendar year in all cases.

### 2062—Cane-Sugar Refining

Industry 2062, Cane Sugar Refining, comprises establishments primarily engaged in refining purchased raw cane sugar and liquid sugar. Establishments primarily engaged in manufacturing flavoring sirups or extracts are classified in Industry 2095, Flavorings. For a detailed list of products of Industry 2062 refer to Table 6A, product codes 2062111 to 2062251.

The value of shipments of Industry 2062 in 1954 totaled \$864 million. This included shipments of refined cane sugar and other cane-sugar refinery products (primary products) valued at \$861 million, and shipments of other products (secondary products) and miscellaneous receipts of \$3 million. Negligible amounts of cane-sugar refinery products were shipped by other industries.

Industry 2062 is largely dependent for its raw material on imports from foreign countries and shipments from Hawaii and

Puerto Rico. Only about 6 percent of its total supply comes from mainland sugar mills (Industry 2061).

### 2063—Beet Sugar

Industry 2063, Beet Sugar, comprises establishments primarily engaged in the manufacture of beet sugar from sugar beets. For a detailed list of products of Industry 2063, refer to Table 6A, product codes 2063111 to 2063298.

The value of shipments of Industry 2063 in 1954 totaled \$291 million, which consisted almost entirely of beet sugar and other beet sugar factory products (primary products). No other industries produced beet sugar.

Beet sugar production is highly seasonal, with the processing of sugar beets starting in the late summer and generally running into the early months of the following year. Establishments in this industry reported for the 1954 crop year rather than the calendar year where the two did not coincide, but employment and payroll data were always reported for the calendar year.

2071—Confectionery Products (Full Standard Industrial Classification title: Candy and Other Confectionery Products)

Industry 2071, Confectionery Products, comprises establishments primarily engaged in manufacturing candy and other confections such as chocolate candies (fancy-package, bulk, or count), chocolate covered bars, marshmallows, lozenges, fudge, candied and crystallized fruits, candy-covered nuts, salted nuts, stuffed dates, popcorn balls, and related products. Establishments primarily engaged in manufacturing solid chocolate bars are classified in Industry 2072, Chocolate and cocoa products; chewing gum in Industry 2073; Chewing Gum, and cough drops selling at retail for more than 10 cents in Industry 2834, Pharmaceutical Preparations. Establishments primarily manufacturing confectionery for sale at retail on the same premises, and establishments primarily engaged in shelling and roasting nuts are included in trade industries. For a detailed list of products of Industry 2071, refer to Table 6A, product codes 2071111 to 2071698.

The value of shipments of Industry 2071 in 1954 totaled \$993 million. This included shipments of confectionery products (primary products) valued at \$940 million, shipments of other products (secondary products) valued at \$44 million, and miscellaneous receipts of \$9 million.

Industry 2071 shipments of confectionery products (primary products) in 1954 represented 95 percent of its total product shipments (primary and secondary). In 1947 this ratio was 97 percent.

Industry 2071 shipments of confectionery products (primary products) in 1954 represented 96 percent of the confectionery products valued at \$983 million shipped by all manufacturing industries. This ratio in 1947 was 97 percent.

### 2072—Chocolate and Cocoa Products

Industry 2072, Chocolate And Cocoa Products, comprises establishments primarily engaged in manufacturing chocolate and cocoa butter from cocoa beans, and in the further manufacture of cocoa, solid chocolate bars, and chocolate coatings. Important products of this industry include solid chocolate, chocolate coatings, powdered cocoa, and cocoa butter. Establishments primarily engaged in manufacturing chocolate candies from purchased chocolate are classified in Industry 2071, Confectionery Products; and instant chocolate and cocoa from purchased chocolate and cocoa in Industry 2099, Food Preparations, N.E.C. For a detailed list of products of Industry 2072, refer to Table 6A, product codes 2072111 to 2072298. 20F-1

The value of shipments of Industry 2072 in 1954 totaled \$433 million.

This included shipments of chocolate and cocoa products (primary products) valued at \$422 million, shipments of other products (secondary products) valued at \$10 million, and miscellaneous receipts of \$1 million. Industry 2072 shipments of chocolate and cocoa products (primary products) in 1954 represented 98 percent of its total product shipments (primary and secondary). In 1947 this ratio was 99 percent.

Industry 2072 shipments of chocolate and cocoa products (primary products) in 1954 represented 89 percent of the chocolate and cocoa products valued at \$472 million shipped by all manufacturing industries. This ratio in 1947 was 100 percent. The chocolate and cocoa products made in other industries (valued at \$50 million in 1954) consisted almost entirely of products made from chocolate or cocoa purchased from Industry 2072 plants; the \$472 million value of shipments thus contains some duplication due to this reprocessing of chocolate and cocoa. The decrease in the "coverage ratio" (100 percent in 1947 to 89 percent in 1954) is due partly to an increase in the reprocessing of chocolate and cocoa, and partly to a change in definition (some of the products, such as reprocessed chocolate sirup, were not classified as primary to Industry 2072 in 1947).

#### 2073--Chewing Gum

Industry 2073, Chewing Gum, comprises establishments primarily engaged in the manufacture of non-medicated chewing gum and chewing gum base. Establishments primarily engaged in the manufacture of gum pharmaceutical preparations (medicated chewing gum) are classified in Industry 2834, Pharmaceutical Preparations.

The value of shipments of Industry 2073 in 1954 totaled \$158 million. This included shipments of chewing gum and chewing gum base (primary products) valued at \$150 million, and shipments of secondary products and miscellaneous receipts valued at \$8 million. Industry 2073 shipments of chewing gum and chewing gum base (primary products) in 1954 represented 95 percent of its total product shipments (primary and secondary).

Industry 2073 shipments of chewing gum and chewing gum base (primary products) in 1954 represented 98 percent of the chewing gum and chewing gum base, valued at \$153 million, shipped by all industries. The principal industry manufacturing chewing gum, other than Industry 2073, was the confectionery products industry (2071).

The general statistics (employment, payrolls, value of shipments, cost of materials, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products, and, for that matter, their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (Tables 1-4) with product statistics (Table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in Table 5A which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry made as secondary products by establishments classified in other industries.



## SUGAR; CONFECTIONERY AND RELATED PRODUCTS

20F-3

Table 1.—GENERAL STATISTICS FOR THE UNITED STATES: 1954 AND EARLIER YEARS  
(For explanation of column captions see Introduction)

Industry and census year	Establish- ments, number	All employees		Production workers		Value added by manufacture <sup>2</sup>	Cost of materials, etc. <sup>3</sup>	Value of shipments <sup>4</sup>
		Number <sup>1</sup>	Payroll (\$1,000)	Number <sup>1</sup>	Wages (\$1,000)			
Raw cane sugar <sup>5</sup> (S.I.C. 2061):								
1954.....	49	3,078	8,949	2,719	7,307	15,431	49,156	64,588
1947.....	82	4,635	8,550	4,022	6,597	17,709	41,595	60,135
1939.....	78	5,294	3,731	4,217	2,573	10,510	22,100	32,600
1937.....	72	4,819	3,209	4,221	2,380	8,500	19,800	28,300
1935.....	74	3,714	2,258	2,944	1,530	8,000	17,400	25,400
1933.....	67	2,718	1,578	2,371	1,228	6,639	11,594	18,233
1931.....	68	(NA)	(NA)	2,032	1,333	3,973	10,008	13,981
1929.....	70	2,723	2,102	2,319	1,642	6,103	12,223	18,326
1927.....	53	1,204	932	971	639	2,179	5,830	8,009
1925.....	94	2,478	1,838	2,066	1,411	1,849	11,586	13,435
1923.....	122	3,674	2,480	2,820	1,728	6,218	20,963	27,181
1921.....	134	3,311	3,018	2,724	2,296	6,020	16,941	22,961
1919.....	202	6,880	5,675	6,101	4,009	13,598	44,143	57,741
1914.....	181	4,372	2,053	3,632	1,561	5,677	15,958	21,635
1909 <sup>6</sup> .....	214	5,115	2,600	4,127	1,863	9,326	21,295	30,621
Cane sugar refining (S.I.C. 2062):								
1954.....	23	16,068	66,431	12,932	50,350	138,971	725,141	864,113
1953 <sup>7</sup> .....	(NA)	15,462	64,908	12,733	50,731	112,376	762,422	874,798
1952 <sup>7</sup> .....	(NA)	16,228	60,744	13,520	47,612	129,639	749,544	879,186
1951 <sup>7</sup> .....	(NA)	16,667	56,850	14,017	43,927	113,469	683,594	797,066
1950 <sup>7</sup> .....	(NA)	17,304	57,672	14,460	44,440	116,262	708,869	825,134
1949 <sup>7</sup> .....	(NA)	17,079	53,412	14,699	42,303	100,599	645,801	744,974
1947.....	25	17,376	47,172	15,093	38,974	98,112	728,744	818,430
1939.....	27	16,828	21,412	14,133	16,197	55,993	289,000	345,000
1937.....	23	15,718	19,942	14,024	15,973	62,000	315,000	377,000
1935.....	18	15,263	17,190	13,832	13,914	41,000	292,000	333,000
1933.....	19	12,786	15,141	11,495	12,237	55,539	281,536	337,075
1931.....	19	(NA)	(NA)	11,855	15,547	59,370	335,933	395,303
1929.....	21	15,655	22,410	13,912	17,850	68,990	438,399	507,389
1927.....	21	15,742	22,353	13,996	17,707	45,852	551,594	597,446
1925.....	21	16,359	23,913	14,502	18,955	56,737	549,896	606,633
1923.....	20	17,474	25,753	15,254	20,044	44,362	681,880	726,242
1921.....	20	17,784	25,020	15,457	19,463	40,001	426,601	466,602
1919.....	21	20,915	28,153	18,202	22,710	68,843	662,144	730,987
1914.....	18	12,553	10,326	11,253	7,823	25,314	264,085	289,399
1909 <sup>6</sup> .....	19	10,339	7,275	9,399	5,621	22,341	226,288	248,629
Beet sugar <sup>5</sup> (S.I.C. 2063):								
1954.....	65	11,019	42,453	9,431	35,245	96,357	194,891	291,248
1953 <sup>7</sup> .....	(NA)	11,217	41,347	9,625	33,871	98,392	199,729	298,121
1952 <sup>7</sup> .....	(NA)	10,570	36,929	8,830	29,747	99,816	164,696	264,233
1951 <sup>7</sup> .....	(NA)	11,575	37,313	10,000	30,902	97,157	167,671	264,549
1950 <sup>7</sup> .....	(NA)	12,634	37,485	10,994	31,395	80,950	187,506	268,177
1949 <sup>7</sup> .....	(NA)	11,096	31,621	9,769	26,326	82,083	143,728	225,532
1947.....	74	13,412	35,569	11,634	29,958	118,048	187,485	262,872
1939.....	85	12,324	16,408	10,410	12,361	49,445	68,000	117,000
1937.....	87	10,937	15,099	9,366	11,733	38,000	55,000	93,000
1935.....	77	10,798	12,532	9,232	9,338	24,000	58,000	82,000
1933.....	84	11,907	13,057	10,706	10,884	51,006	76,127	127,133
1931.....	67	(NA)	(NA)	6,241	7,548	23,347	62,325	85,672
1929.....	82	8,943	12,819	7,496	10,021	37,593	70,960	108,553
1927.....	79	8,872	12,725	7,402	9,710	25,910	79,017	104,927
1925.....	89	10,403	15,281	8,872	12,088	45,301	87,038	132,339
1923.....	84	9,602	14,394	7,571	10,103	47,494	70,820	118,314
1921.....	92	16,008	27,643	13,602	22,658	17,241	121,869	139,110
1919.....	85	14,189	20,336	11,781	15,908	62,127	87,029	149,156
1914.....	60	9,633	8,865	7,997	6,606	21,206	41,399	62,605
1909.....	58	8,388	6,578	7,204	4,808	20,857	27,265	48,122
1904.....	51	4,726	3,491	3,963	2,487	9,907	14,487	24,394
1899.....	30	2,320	1,449	1,970	1,092	2,520	4,804	7,324
Confectionery products (S.I.C. 2071):								
1954.....	1,434	66,799	201,706	55,220	143,850	422,314	570,282	992,597
1953 <sup>7</sup> .....	(NA)	67,911	199,578	56,690	144,148	412,136	563,455	975,591
1952 <sup>7</sup> .....	(NA)	69,195	201,283	55,703	140,676	383,953	607,887	991,840
1951 <sup>7</sup> .....	(NA)	66,989	187,908	54,962	131,412	378,380	582,524	960,904
1947.....	1,686	75,165	167,886	64,883	123,046	413,852	531,073	944,925

See footnotes at end of table.

## MANUFACTURES--INDUSTRY STATISTICS

Table 1.—GENERAL STATISTICS FOR THE UNITED STATES: 1954 AND EARLIER YEARS  
(For explanation of column captions see Introduction)

Industry and census year	Establishments, number	All employees		Production workers		Value added by manufacture <sup>2</sup>	Cost of materials, etc. <sup>3</sup>	Value of shipments <sup>4</sup>
		Number <sup>1</sup>	Payroll (\$1,000)	Number <sup>1</sup>	Wages (\$1,000)			
Confectionery products—Continued								
1939.....	1,252	61,111	63,124	41,740	41,085	127,026	170,736	297,762
1937.....	1,226	59,230	55,040	53,722	43,441	123,058	182,781	305,839
1935.....	1,314	58,083	51,751	52,109	39,252	106,151	153,738	259,889
1933.....	1,218	55,991	40,614	50,609	32,991	97,669	114,164	211,835
1931.....	1,566	(NA)	(NA)	51,262	42,153	139,409	144,748	284,157
1929.....	2,021	72,718	80,028	63,501	56,443	178,078	215,192	393,270
1927.....	1,908	73,142	81,545	63,163	56,981	173,554	218,373	391,927
1925.....	1,931	74,255	77,861	63,600	55,235	173,648	205,433	379,081
1923.....	2,014	74,561	79,124	63,485	54,882	163,537	202,719	366,256
1921.....	2,254	72,496	72,016	61,004	50,210	139,926	174,072	313,998
1919.....	3,149	90,836	85,706	76,493	54,461	195,292	252,434	447,726
1914 <sup>8</sup> .....	2,317	60,881	32,165	51,610	20,644	59,993	93,693	153,686
Chocolate and cocoa products (S.I.C. 2072):								
1954.....	28	8,465	33,133	6,677	23,219	81,745	351,096	432,842
1953 <sup>7</sup> .....	(NA)	10,182	36,860	7,850	25,397	97,799	300,745	398,544
1952 <sup>7</sup> .....	(NA)	9,195	32,927	7,632	24,065	89,828	284,089	373,917
1951 <sup>7</sup> .....	(NA)	9,667	33,261	8,005	24,524	80,608	287,011	367,619
1950 <sup>7</sup> .....	(NA)	10,202	33,091	8,403	23,807	89,009	267,924	356,933
1949 <sup>7</sup> .....	(NA)	10,094	31,411	7,914	23,484	93,796	249,764	343,560
1947.....	31	9,605	27,480	7,708	19,174	98,276	251,631	349,907
1939.....	39	8,831	13,030	6,464	7,711	35,559	63,459	99,018
1937.....	40	8,473	10,408	7,402	8,129	28,215	74,131	102,346
1935.....	44	9,383	10,368	8,291	7,996	26,640	66,407	93,047
1933.....	54	7,181	7,542	6,460	6,115	26,182	41,572	67,754
1931.....	55	(NA)	(NA)	5,677	6,649	37,301	50,045	87,346
1929.....	59	7,068	10,276	6,249	7,778	39,992	79,549	119,541
1927.....	69	7,345	10,125	6,427	7,339	32,300	90,423	122,723
1925.....	60	8,477	11,343	7,128	7,992	33,120	73,522	106,642
1923.....	58	8,378	11,481	6,876	7,730	34,688	60,843	95,531
1921.....	55	8,010	10,345	6,652	7,278	32,515	49,134	81,649
1919.....	48	10,266	13,309	9,083	9,270	37,504	101,754	139,258
1914.....	36	5,039	3,489	4,160	2,036	11,230	24,483	35,713
1909.....	27	3,394	2,239	2,826	1,269	6,867	15,523	22,390
1904.....	25	2,381	1,285	2,090	822	4,667	9,723	14,390
1899.....	24	1,603	897	1,314	526	2,789	6,877	9,666
Chewing gum (S.I.C. 2073):								
1954.....	28	5,161	20,149	4,019	14,034	92,150	65,930	158,081
1952 <sup>7</sup> .....	(NA)	4,956	18,421	3,739	12,685	84,171	76,012	160,183
1951 <sup>7</sup> .....	(NA)	4,911	17,295	3,711	11,714	74,819	69,265	144,084
1949 <sup>7</sup> .....	(NA)	5,964	19,198	4,696	13,052	70,364	70,890	141,254
1947.....	37	6,940	19,192	5,472	13,446	74,937	73,349	145,286
1939.....	27	3,693	5,437	2,627	3,286	43,153	17,630	60,783
1937.....	25	2,839	3,935	2,401	2,967	39,834	16,888	56,722
1935.....	26	2,794	3,604	2,315	2,417	32,781	14,985	47,766
1933.....	31	2,574	2,759	2,252	2,232	29,055	12,599	41,654
1931.....	35	(NA)	(NA)	2,147	2,463	34,516	16,824	51,340
1929.....	37	2,852	4,195	2,265	2,733	36,929	23,231	60,160
1927.....	40	3,257	4,414	2,524	2,727	34,833	27,168	62,001
1925.....	41	2,639	3,469	2,180	2,538	29,870	17,968	47,835
1923.....	45	2,541	3,174	2,052	2,233	25,384	15,487	40,871
1921.....	50	2,557	3,343	1,994	2,149	18,957	19,908	38,865
1919.....	62	4,033	4,527	3,190	2,680	26,038	25,202	51,240
1914 <sup>8</sup> .....	74	2,668	1,649	2,048	828	9,838	7,322	17,160

NA Not available.

<sup>1</sup>For the period 1949-1954, figures are based on employment for the payroll periods ending nearest the 15th of March, May, August and November. (However, in the case of the "Raw cane sugar," "Refined cane sugar" and "Beet sugar" industries a different method was used for 1954; all employees represents the average of 12 monthly figures, and production workers was calculated by subtracting from the all employees total the average number of nonproduction employees for March, May, August and November.) For 1947, they represent the average of 12 monthly figures. For earlier years, the production worker average was calculated as in 1947, but the all employees figure represents the sum of the annual average number of production workers and the number of nonproduction workers reported for one payroll period (usually in October).

<sup>2</sup>Value of products less cost of materials, supplies, fuel, electric energy and contract work. See Introduction, "Value Added by Manufacture." For the "Raw cane sugar," "Refined cane sugar" and "Beet sugar" industries 1947 value added by manufacture does not equal the published value of products shipped less cost of materials, etc. because an estimated value of production was used in the calculation in place of value of products shipped. Since the 1949-1952 figures are estimates derived from 1947 base totals, the same inequality may exist for these years.

<sup>3</sup>Excise taxes are not included in cost of materials or value of products for the sugar industries. Previously published figures for these industries for 1935, 1937 and 1939 have been adjusted to exclude estimated excise tax.

<sup>4</sup>For 1929 and 1947-1954, value of shipments, except in the case of the sugar industries for 1929 where they represent value of production; for all other years, value of production. See Introduction, "Value of Shipments."

<sup>5</sup>The figures for 1947-1954 generally cover the calendar year except that some producers reported for the seasons beginning in the respective years. (See text on industry.) The figures for 1931-1939 cover the seasons beginning in the respective census years, and for prior years for the seasons ending in those years. Thus the figures given for 1939 cover the season 1939-40, whereas, the figures for 1921 apply to the season 1920-21. In 1925, 1927 and 1929, however, most of the establishments in "Raw cane sugar" and a few establishments in "Beet sugar," reported for the seasons 1925-26, 1927-28, and 1929-30, instead of 1924-25, 1926-27, and 1928-29.

<sup>6</sup>No comparable figures are available for earlier years. Prior to 1909, "Raw cane sugar" and "Cane sugar refining" constituted a single industry.

<sup>7</sup>The figures for 1949-1954 represent estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period. Estimates with a standard error in excess of 15 percent generally have been omitted from this table.

<sup>8</sup>"Confectionery products" and "Chewing gum" formerly were combined in one industry. Separate statistics for each are therefore not available for years prior to 1914.

## SUGAR, CONFECTIONERY AND RELATED PRODUCTS

20F-5

Table 2.—GENERAL STATISTICS BY REGIONS AND STATES: 1954 AND 1947  
(For explanation of column captions see Introduction)

Industry, region, and State <sup>1</sup>	1954											1947	
	Establishments, number		All employees		Production workers			Value added by manufacture	Cost of materials, etc.	Value of shipments	Capital expenditures, new	All employees, number	Value added by manufacture
	Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)		(\$1,000)
Raw cane sugar (S.I.C. 2061), total.....	49	43	3,078	8,949	2,719	7,231	7,307	15,431	49,156	64,588	2,659	4,635	17,709
South.....	49	43	3,078	8,949	2,719	7,231	7,307	15,431	49,156	64,588	2,659	4,635	17,709
Cane-sugar refining (S.I.C. 2062), total.....	23	23	16,068	66,431	12,932	26,061	50,350	138,971	725,141	864,113	10,553	17,376	98,112
Northeast.....	9	9	7,788	34,059	6,084	11,800	24,936	60,243	322,421	382,665	5,637	7,659	41,128
New York.....	5	5	3,815	16,696	2,923	5,600	11,979	29,519	162,534	192,053	2,822	3,671	22,008
North Central.....	3	3	143	666	108	248	458	1,793	10,254	12,047	171	93	766
South and West.....	11	11	8,136	31,705	6,739	14,012	24,955	76,935	392,466	469,401	4,744	9,624	56,218
Beet sugar (S.I.C. 2063), total.....	65	65	11,019	42,453	9,431	19,911	35,245	96,357	194,891	291,248	5,910	13,412	118,048
North Central.....	18	18	2,543	10,129	2,098	4,655	8,008	21,076	36,258	57,335	972	3,445	21,361
West.....	47	47	8,476	32,324	7,333	15,256	27,237	75,280	158,633	233,913	4,938	9,967	96,687
Montana.....	4	4	632	2,600	515	1,177	2,077	6,376	10,229	16,605	169	944	8,668
Colorado.....	16	16	2,129	7,890	1,717	3,425	6,040	18,174	25,210	43,384	(D)	3,012	28,252
Utah.....	5	5	575	2,097	493	1,092	1,766	2,684	8,014	10,698	188	725	5,621
California.....	11	11	3,027	11,605	2,759	5,494	10,338	25,500	70,508	96,008	1,134	2,788	21,410
Confectionery products (S.I.C. 2071), total.....	1,434	446	66,799	201,706	55,220	107,952	143,850	422,314	570,282	992,597	13,399	75,165	413,852
New England.....	106	33	7,011	20,763	5,936	11,193	15,059	37,592	57,195	94,788	(D)	8,288	(D)
Maine.....	9	...	51	84	36	64	59	151	183	334	13	29	(D)
Vermont.....	5	1	67	139	55	93	99	265	378	644	(D)	78	(D)
Massachusetts.....	77	28	6,158	18,143	5,215	9,811	13,166	30,093	44,705	74,799	1,169	7,339	32,209
Middle Atlantic.....	417	135	20,047	60,018	17,032	32,495	44,219	124,278	150,100	274,378	3,192	21,287	(D)
New York.....	171	57	8,779	27,045	7,513	14,213	20,018	52,441	64,065	116,506	(D)	9,525	50,545
New Jersey.....	58	16	2,759	9,632	2,237	4,634	6,873	22,953	32,664	55,618	(D)	2,154	(D)
Pennsylvania.....	188	62	8,508	23,341	7,282	13,647	17,327	48,884	53,370	102,254	1,295	9,608	49,854
East North Central.....	310	99	19,757	65,935	15,906	31,445	46,415	144,207	194,413	338,621	4,965	21,021	154,387
Indiana.....	19	7	836	2,812	689	1,463	2,046	5,502	10,226	15,729	122	897	3,977
Illinois.....	127	53	15,066	51,998	11,971	23,772	35,969	120,729	156,103	276,832	3,863	15,938	132,802
West North Central.....	70	28	3,069	9,214	2,354	4,869	6,053	17,191	26,019	43,211	621	4,802	22,700
Minnesota.....	21	11	1,035	3,094	847	1,718	2,142	5,863	10,370	16,233	131	1,173	6,011
Iowa.....	15	7	359	1,018	305	659	679	1,845	4,521	6,367	195	519	2,139
Missouri.....	23	7	1,103	3,369	731	1,528	2,027	5,911	6,328	12,239	161	2,621	11,754
Kansas.....	6	...	38	102	28	52	61	104	197	302	9	(D)	(D)
South and West.....	531	151	16,912	45,775	13,990	27,947	32,101	99,044	142,554	241,598	(D)	19,767	81,563
Maryland.....	30	12	703	1,601	611	1,110	1,070	2,679	4,664	7,344	63	644	2,814
Virginia.....	18	10	2,208	5,137	2,044	3,986	4,396	16,835	30,415	47,251	545	1,955	5,075
North Carolina.....	17	5	1,264	415	886	922	6,000	3,440	9,440	157	534	2,072	(D)
South Carolina.....	7	1	213	532	155	261	242	867	1,026	1,893	14	234	(D)
Georgia.....	30	11	2,387	5,849	2,003	4,070	4,080	11,837	16,487	28,325	342	2,796	10,601
Florida.....	24	3	256	564	223	439	414	867	1,540	2,408	26	302	864
Kentucky.....	15	5	542	1,323	426	893	911	1,754	2,372	4,127	46	566	2,805
Alabama.....	17	7	355	670	313	588	560	1,499	3,410	4,910	54	408	1,040
Arkansas.....	7	2	106	268	72	144	142	278	459	738	8	282	672
Louisiana.....	12	3	355	881	306	714	670	1,629	2,034	3,664	55	549	2,104
Oklahoma.....	14	2	257	574	215	450	433	847	1,448	2,295	18	329	1,347
Texas.....	77	17	1,469	3,520	1,271	2,941	2,579	8,726	13,359	22,086	190	2,315	(D)
Colorado.....	16	4	477	1,147	331	662	790	1,665	2,201	3,867	60	472	1,784
Arizona.....	4	...	18	30	17	36	29	53	78	132	...	27	(D)
Utah.....	18	5	526	1,576	419	862	977	2,627	2,752	5,380	52	724	4,116
California.....	143	48	4,716	15,856	3,677	7,158	10,538	31,149	44,660	75,809	(D)	5,010	25,616

See footnotes at end of table.



## MANUFACTURES--INDUSTRY STATISTICS

Table 2.—GENERAL STATISTICS BY REGIONS AND STATES: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Industry, region, and State <sup>1</sup>	1954											1947	
	Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
	Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
Chocolate and cocoa products (S.I.C. 2072), total.....	28	24	8,465	33,133	6,677	13,503	23,219	81,745	351,096	432,842	3,636	9,605	98,276
Northeast and North Central.	24	22	8,243	32,176	6,502	13,205	22,629	79,439	342,905	422,345	3,543	(D)	(D)
New York.....	5	5	2,175	8,710	1,648	3,559	6,096	23,595	85,791	109,386	(D)	2,680	24,523
Pennsylvania.....	6	5	4,225	15,216	3,587	7,080	11,792	43,526	162,761	206,288	1,553	4,809	45,976
Pacific.....	4	2	222	957	175	298	590	2,306	8,191	10,497	93	(D)	(D)
Chewing gum (S.I.C. 2073), total.....	28	16	5,161	20,149	4,019	7,806	14,034	92,150	65,930	158,081	4,235	6,940	74,937
Northeast and North Central.	23	15	5,012	19,671	3,886	7,534	13,715	90,681	64,269	154,951	(D)	6,591	71,636
New York.....	8	5	2,797	11,451	2,128	4,128	7,886	42,825	27,025	69,850	288	3,002	33,622
Pennsylvania.....	5	4	831	2,990	578	1,143	1,744	7,582	5,963	13,546	119	1,185	9,187
South and West.....	5	1	148	477	132	271	319	1,468	1,660	3,129	(D)	349	3,301

Note: Detailed figures may not add to the totals because of independent rounding.

<sup>1</sup> D Withheld to avoid disclosing figures for individual companies.<sup>2</sup> General statistics for some producing States are not shown separately in the table (see INTRODUCTION "Confidentiality of Data for Individual Companies"). Such States are shown below with the number of establishments in each State for 1954 and, in parentheses, the number of employees or the employment-size range for that State for 1954:

S.I.C. 2061, Raw Cane Sugar: South—Florida, 3 (500-999); Louisiana, 46 (1,000-2,499).

S.I.C. 2062, Cane-sugar Refining: Northeast—Massachusetts, 2 (1,000-2,499); Pennsylvania, 2 (1,000-2,499); North Central—Indiana, 1 (20-99); Illinois, 1 (20-99); Missouri, 1 (20-99); South and West—Maryland, 1 (1,000-2,499); Georgia, 1 (500-999); Louisiana, 7 (2,500-4,999); Texas, 1 (500-999); California, 1 (1,000-2,499).

S.I.C. 2063, Beet Sugar: North Central—Ohio, 2 (250-499); Michigan, 5 (500-999); Minnesota, 3 (250-499); Iowa, 1 (100-249); South Dakota, 1 (100-249); Nebraska, 5 (500-999); Kansas, 1 (100-249); West—Idaho, 5 (500-999); Wyoming, 3 (250-499); Washington, 2 (250-499); Oregon, 1 (250-499).

S.I.C. 2071, Confectionery Products: New England—New Hampshire, 2 (1-19); Rhode Island, 3 (250-499); Connecticut, 10 (250-499); East North Central—Ohio, 100 (1,000-2,499); Michigan, 33 (500-999); Wisconsin, 31 (1,000-2,499); West North Central—South Dakota, 1 (100-249); Nebraska, 4 (250-499); South and West—Delaware, 1 (1-19); District of Columbia, 1 (1-19); West Virginia, 9 (20-99); Tennessee, 24 (500-999); Mississippi, 5 (20-99); Montana, 1 (1-19); Idaho, 3 (20-99); New Mexico, 2 (1-19); Washington, 21 (500-999); Oregon, 15 (100-249).

S.I.C. 2072, Chocolate and Cocoa Products: Northeast and North Central—Massachusetts, 3 (1,056); New Jersey, 5 (100-249); Illinois, 3 (250-499); Wisconsin, 2 (250-499); Pacific—Washington, 1 (1-19); California, 3 (100-249).

S.I.C. 2073, Chewing Gum: Northeast and North Central—Massachusetts, 3 (100-249); New Jersey, 2 (20-99); Ohio, 2 (20-99); Illinois, 2 (1,000-2,499); Michigan, 1 (1-19); South and West—Tennessee, 2 (100-249); Pacific—California, 3 (20-99).

## SUGAR; CONFECTIONERY AND RELATED PRODUCTS

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Table 3.—DETAILED STATISTICS FOR THE UNITED STATES: 1954

(For explanation of line captions see Introduction)

Item	Raw cane sugar (S.I.C. 2061)	Cane sugar refining (S.I.C. 2062)	Beet sugar (S.I.C. 2063)	Confectionery products (S.I.C. 2071)	Chocolate and cocoa products (S.I.C. 2072)	Chewing gum (S.I.C. 2073)
Primary product specialization ratio <sup>1</sup> .....	96	100	99	95	98	95
Coverage ratio <sup>2</sup> .....	97	100	100	96	89	98
Number of establishments, total.....	49	23	65	1,434	28	28
With 1-19 employees.....	6	...	...	988	4	12
With 20-99 employees.....	37	4	5	307	11	5
With 100 employees and over.....	6	19	60	139	13	11
All employees:						
Number (average for year).....	3,078	16,068	11,019	66,799	8,465	5,161
Payroll.....\$1,000..	8,949	66,431	42,453	201,706	33,133	20,149
Production workers:						
Number (average for year).....	2,719	12,932	9,431	55,220	6,677	4,019
Man-hours.....1,000..	7,231	26,061	19,911	107,952	13,503	7,806
Wages.....\$1,000..	7,307	50,350	35,245	143,850	23,219	14,034
Value added by manufacture.....	15,431	138,971	96,357	422,314	81,745	92,150
Cost of materials, etc.....do..	49,156	725,141	194,891	570,282	351,096	65,930
Value of shipments.....do..	64,588	864,113	291,248	992,597	432,842	158,081
Value added by resales.....do..	8	119	1,148	7,165	33	32
Cost of products bought and resold.....do..	119	2,603	8,555	35,192	757	922
Sales of products bought and resold.....do..	127	2,722	9,703	42,358	790	955
Total inventories, beginning of year.....do..	13,810	70,365	125,408	131,812	84,425	30,468
Total inventories, end of year.....do..	15,770	68,552	140,186	135,290	88,899	31,359
Capital expenditures, new.....do..	2,659	10,553	5,910	13,399	3,636	4,235
Total employment, by month:						
January.....	2,923	16,042	8,270	(NA)	(NA)	(NA)
February.....	2,556	16,190	6,656	(NA)	(NA)	(NA)
March.....	2,523	16,266	5,720	64,770	8,673	5,094
April.....	2,534	16,405	6,522	(NA)	(NA)	(NA)
May.....	2,362	16,185	7,249	59,856	8,049	5,045
June.....	2,045	16,313	7,694	(NA)	(NA)	(NA)
July.....	2,350	16,194	7,813	(NA)	(NA)	(NA)
August.....	2,373	16,299	8,447	65,251	8,490	5,284
September.....	2,360	16,169	9,974	(NA)	(NA)	(NA)
October.....	4,020	15,634	23,811	(NA)	(NA)	(NA)
November.....	5,918	15,641	22,920	77,320	8,646	5,221
December.....	5,372	15,475	17,150	(NA)	(NA)	(NA)
Cost of materials, fuel, electricity and contract work, total.....\$1,000..	49,157	725,142	194,891	570,283	351,097	65,931
Materials, parts, containers, and supplies consumed.....do..	48,007	716,135	181,652	561,988	348,008	65,314
Fuels consumed, total.....do..	976	8,760	12,710	3,558	1,604	213
Bituminous coal and anthracite:						
Quantity.....1,000 short tons..	( <sup>3</sup> )	348	899	106	125	18
Value.....\$1,000..	1	3,072	6,330	896	1,051	156
Coke:						
Quantity.....1,000 short tons..	...	...	50	1	...	...
Value.....\$1,000..	...	...	1,063	10	...	...
Fuel oil:						
Quantity.....1,000 barrels..	55	909	242	495	113	13
Value.....\$1,000..	164	2,145	746	1,520	421	40
Gas:						
Quantity.....million cubic feet..	4,707	17,093	13,013	5,293	305	21
Value.....\$1,000..	755	3,532	4,530	825	63	7
Other fuels:						
Quantity.....do..	56	11	41	307	69	10
Electric energy:						
Purchased:						
Quantity.....million kwh..	9	14	34	287	117	28
Cost.....\$1,000..	151	214	507	4,277	1,482	404
Generated.....million kwh..	33	271	252	16	86	3
Sold:						
Quantity.....million kwh..	( <sup>4</sup> )	1	45	...	24	...
Value.....\$1,000..	82	92	214	...	241	...
Cost of contract work.....do..	23	33	22	460	3	...
Manufacturers' inventories:						
Beginning of year, total.....do..	13,810	70,365	125,408	131,812	84,425	30,468
Finished products.....do..	11,488	34,908	104,082	42,580	29,953	4,475
Work-in-process.....do..	169	4,686	1,807	7,488	9,715	718
Materials, supplies, fuel, etc.....do..	2,152	30,770	19,518	81,744	44,756	25,275
End of year, total.....do..	15,770	68,552	140,186	135,290	88,899	31,359
Finished products.....do..	13,638	28,749	120,303	44,896	33,018	4,458
Work-in-process.....do..	220	5,135	1,822	7,576	10,613	780
Materials, supplies, fuel, etc.....do..	1,911	34,667	18,061	82,817	45,267	26,121
Expenditures for plant and equipment, total.....do..	2,654	10,689	6,011	14,995	3,739	4,622
Capital expenditures, new.....do..	2,659	10,553	5,910	13,399	3,636	4,235
New structures and additions to plant.....do..	814	2,005	1,255	3,251	1,345	1,877
New machinery and equipment.....do..	1,845	8,548	4,655	10,148	2,291	2,358
Expenditures for used plant and equipment.....do..	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	1,589	( <sup>5</sup> )	( <sup>5</sup> )
Horsepower rating of power equipment at end of 1954:						
Horsepower of prime movers and electric motors driven by purchased energy, total.....1,000 hp..	117	150	236	203	99	17
Engines, etc. driving electric generators.....do..	33	109	151	14	41	2
Engines, etc. not driving electric generators.....do..	64	20	51	7	5	3
Electric motors driven by purchased energy.....do..	6	7	24	182	54	12
Electric motors driven by energy generated at the establishment.....do..	21	129	179	10	41	1

Note: Detailed figures may not add to the totals because of independent rounding. NA Not available. <sup>1</sup>The specialization ratio compares the given industry's shipments of its primary products to its total shipments of all products. (The primary products are listed in Tables 5B and 6A; the first 4-digits of the product code represent the industry code to which the product is primary.) <sup>2</sup>The coverage ratio measures the extent to which the total shipments of products primary to the given industry are shipped by establishments classified in that industry. <sup>3</sup>Less than 500 tons. <sup>4</sup>Less than 500 thousand kwh. <sup>5</sup>Less than \$500 thousand.

## MANUFACTURES--INDUSTRY STATISTICS

Table 4.--SELECTED STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR THE UNITED STATES: 1954

(Value figures in thousands of dollars. For explanation of line captions see Introduction. Data which cannot be shown without disclosing information for individual companies have been combined with figures for other size classes. A (D) appears in the column where the figure has been omitted and the combined figure is underlined and shown in the size-class to the left)

Ind. code	Industry and item	Total, all establishments	Establishments with an average of--									
			1-4 em- employees	5-9 em- employees	10-19 em- employees	20-49 em- employees	50-99 em- employees	100-249 employees	250-499 employees	500-999 employees	1,000-2,499 employees	2,500 employees and over
2061	Raw cane sugar:											
	Number of establishments..	49	2	3	1	17	20	5	1	...	...	...
	Number of employees.....	3,078	38	(D)	(D)	601	1,416	1,020	(D)	...	...	...
	Value added by manufacture	15,431	191	(D)	(D)	3,900	7,408	3,931	(D)	...	...	...
2062	Cane-sugar refining:											
	Number of establishments..	23	...	...	...	3	1	...	5	7	7	...
	Number of employees.....	16,068	...	...	...	1,685	(D)	...	(D)	5,003	9,378	...
	Value added by manufacture	138,971	...	...	...	16,955	(D)	...	(D)	40,048	81,968	...
2063	Beet sugar:											
	Number of establishments..	65	...	...	...	1	4	52	7	1	...	...
	Number of employees.....	11,019	...	...	...	377	(D)	7,936	2,705	(D)	...	...
	Value added by manufacture	96,357	...	...	...	2,934	(D)	72,447	20,975	(D)	...	...
2071	Confectionery products:											
	Number of establishments..	1,434	575	216	197	199	108	90	28	11	10	...
	Number of employees.....	66,799	1,308	1,519	2,808	6,297	7,873	14,731	9,531	7,312	15,417	...
	Value added by manufacture	422,314	5,391	6,168	13,250	34,611	48,268	86,013	72,343	41,843	114,424	...
2072	Chocolate and cocoa products:											
	Number of establishments..	28	1	...	3	3	8	7	2	2	1	...
	Number of employees.....	8,465	47	...	(D)	86	528	1,111	6,690	(D)	(D)	(D)
	Value added by manufacture	81,745	2,094	...	(D)	708	5,703	10,666	62,573	(D)	(D)	(D)
2073	Chewing gum:											
	Number of establishments..	28	2	7	3	2	3	5	3	1	2	...
	Number of employees.....	5,161	58	(D)	108	(D)	210	746	993	3,043	(D)	...
	Value added by manufacture	92,150	463	(D)	708	(D)	1,227	5,318	12,562	71,871	(D)	...

Note: Detailed figures may not add to the total because of independent rounding.

Table 5A.--INDUSTRY-PRODUCT ANALYSIS--SUMMARY OF INDUSTRY AND PRIMARY PRODUCT SHIPMENTS, SPECIALIZATION RATIOS AND COVERAGE RATIOS FOR THE UNITED STATES: 1954 AND 1947

Industry code	Industry and census year	Value of shipments					Value of primary products shipped			
		Total	Primary products	Secondary products	Miscel- laneous receipts	Primary product speciali- zation ratio <sup>1</sup>	Total (made in all industries)	Made in this industry	Made in other industries	Coverage ratio <sup>2</sup>
Col. B Col. C (Percent)	Col. D Col. E (Percent)	Col. F Col. G (Percent)	Col. H Col. I (Percent)	Col. J Col. K (Percent)						
(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	
2061	Raw cane sugar.....1954... 1947...	64,588 60,135	62,060 58,569	32,528 31,566	(3) (3)	306 307	63,994 58,569	62,060 58,569	1,934 ...	97 100
2062	Cane-sugar refining.....1954... 1947...	864,113 818,430	861,386 817,048	32,727 31,382	(3) (3)	3100 3100	863,969 818,180	861,386 817,048	2,583 1,132	100 100
2063	Beet sugar.....1954... 1947...	291,248 262,872	289,561 262,872	31,687 ...	(3) ...	399 100	289,561 262,872	289,561 262,872	... ...	100 100
2071	Confectionery products.....1954... 1947...	992,597 944,925	940,288 904,559	43,794 30,479	8,515 9,887	95 97	982,501 936,875	940,288 904,559	42,213 32,316	96 97
2072	Chocolate and cocoa products.1954... 1947...	432,842 349,907	421,528 347,802	10,106 32,105	1,208 (3)	98 399	471,965 349,511	421,528 347,802	50,437 1,709	89 100
2073	Chewing gum.....1954... 1947...	158,081 148,286	150,006 (D)	38,075 (D)	(3) (D)	395 (D)	153,524 150,900	150,006 (D)	3,518 (D)	98 (D)

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>The specialization ratio compares the given industry's shipments of its primary products to its total shipments of all products. (The primary products are listed in Tables 5B and 6A; the first 4-digits of the product code represent the industry code to which the product is primary.)

<sup>2</sup>The coverage ratio measures the extent to which the total shipments of products primary to the given industry are shipped by establishments classified in that industry.

<sup>3</sup>Miscellaneous receipts included with secondary products.



## SUGAR; CONFECTIONERY AND RELATED PRODUCTS

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Table 5B.--INDUSTRY-PRODUCT ANALYSIS--SHIPMENTS BY PRODUCT CLASS AND INDUSTRY, FOR THE UNITED STATES: 1954

(In thousands of dollars. The first column shows the total value of shipments of the specified industry divided among: (a) products classified in the industry (primary products), (b) products classified in other industries (secondary products) and (c) miscellaneous receipts. The value of shipments of the primary products of the specified industry reported by establishments not classified in that industry is shown under the caption "Other industries." Industries accounting for significant amounts of the primary products listed are shown in separate columns provided that the figures for individual companies are not thereby disclosed. The last column shows the total value of shipments of the primary products of the industry by all manufacturing industries)

Prod. class code	Raw cane sugar industry	Raw cane sugar (S.I.C. 2061)	Other industries	All industries	Prod. class code	Confectionery products industry	Confectionery products (S.I.C. 2071)	Other industries	All industries
	Total shipments of the industry...	64,588	xxx	xxx		Total shipments of the industry...	992,597	xxx	xxx
	Primary products.....	62,060	1,934	63,994		Primary products.....	940,288	42,213	982,501
20611	Raw cane sugar.....	(D)	(D)	48,740	20711	Candy bars(except solid chocolate)	228,930	1,275	230,205
20612	Other cane sugar mill products and byproducts.....	(D)	(D)	15,254	20712	5¢ and 10¢ candies, except bars and cough drops.....	84,352	713	85,065
	Secondary products and miscellaneous receipts.....	2,528	xxx	xxx	20713	Package candy goods.....	290,485	7,047	297,532
					20714	Bulk candy goods.....	148,446	6,240	154,686
					20715	Salted, roasted and blanched nuts.	41,007	15,737	46,744
					20716	Other candy and confectionery....	123,590	219,444	143,034
					20710	Confectionery products, not specified by kind.....	23,478	1,757	25,235
						Secondary products.....	43,794	xxx	xxx
Prod. class code	Cane-sugar refining industry	Cane-sugar refining (S.I.C. 2062)	Other industries	All industries	20240	Ice cream and ices.....	2,287	xxx	xxx
	Total shipments of the industry...	864,113	xxx	xxx	20338	Jams, jellies, and preserves.....	2,855	xxx	xxx
	Primary products.....	861,386	2,583	863,969	20722	Other chocolate and cocoa products	4,027	xxx	xxx
20621	Refined cane sugar.....	(D)	(D)	858,971	20730	Chewing gum and chewing gum base..	2,897	xxx	xxx
20622	Other cane sugar refinery products and byproducts.....	(D)	(D)	4,998	20954	Other flavoring agents, except chocolate syrup.....	3,332	xxx	xxx
	Secondary products and miscellaneous receipts.....	2,727	xxx	xxx	20997	Other food preparations, including mincemeat.....	13,873	xxx	xxx
						Other secondary products.....	314,523	xxx	xxx
						Miscellaneous receipts.....	8,515	xxx	xxx
						Contract and commission work.....	1,490	xxx	xxx
						Nonmanufacturing activities.....	4,452	xxx	xxx
						Other miscellaneous receipts.....	2,573	xxx	xxx
Prod. class code	Beet sugar industry	Beet sugar (S.I.C. 2063)	Other industries	All industries	Prod. class code	Chocolate and cocoa products industry	Chocolate and cocoa products (S.I.C. 2072)	Other industries	All industries
	Total shipments of the industry...	291,248	xxx	xxx		Total shipments of the industry...	432,842	xxx	xxx
	Primary products.....	289,561	...	289,561	20721	Primary products.....	421,528	50,437	471,965
20631	Refined beet sugar.....	257,108	...	257,108	20722	Chocolate coatings.....	127,810	3,204	131,014
20632	Other beet sugar factory products and byproducts.....	32,453	...	32,453	20720	Other chocolate and cocoa products	293,038	47,233	340,271
	Secondary products and miscellaneous receipts.....	1,687	xxx	xxx	20720	Chocolate and cocoa products, not specified by kind.....	680	...	680
						Secondary products.....	10,106	xxx	xxx
					20714	Bulk candy goods.....	4,692	xxx	xxx
						Other secondary products.....	5,414	xxx	xxx
						Miscellaneous receipts.....	1,208	xxx	xxx
Prod. class code					Prod. class code	Chewing gum industry	Chewing gum (S.I.C. 2073)	Other industries	All industries
	Total shipments of the industry...					Total shipments of the industry...	158,081	xxx	xxx
	Primary products.....				20730	Chewing gum and chewing gum base....	150,006	3,518	153,524
	Secondary products and miscellaneous receipts.....					Secondary products and miscellaneous receipts.....	8,075	xxx	xxx

xxx Not applicable.

<sup>1</sup>Includes \$5,421 thousand shipped by Industry 2099, Food Preparations, N.E.C.<sup>2</sup>Includes \$9,920 thousand shipped by Industry 2099, Food Preparations, N.E.C.<sup>3</sup>Of this figure, 90 percent consists of the following product classes: 20920, Shortening and salad oils, and 28343, Cough and cold products.<sup>4</sup>Includes shipments of products sold by, but not manufactured in the reporting establishment, and not included in "resales" (Table 3).<sup>5</sup>Includes \$10,650 thousand shipped by Industry 2095, Flavorings, and \$24,853 thousand shipped by Industry 2099, Food Preparations, N.E.C.

Table GA.--QUANTITY AND VALUE OF PRODUCTS SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, FOR THE UNITED STATES: 1954 AND 1947

Product code	Product	Unit of quantity	1954			1947		
			Production for all purposes (quantity) <sup>1</sup>	Total shipments including interplant transfers		Production for all purposes (quantity) <sup>1</sup>	Total shipments including interplant transfers	
				Quantity	Value, excluding excise taxes (\$1,000)		Quantity	Value, excluding excise taxes (\$1,000)
2061---	Raw cane sugar, total.....	.....	xxx	xxx	63,994	xxx	xxx	58,569
2061111	Raw cane sugar.....	Short ton.....	522,685	422,941	48,740	298,655	296,111	35,813
20612	Other cane sugar mill products and byproducts.....	.....	xxx	xxx	15,254	xxx	xxx	22,756
2061211	Plantation granulated sugar (not including refined sugar resulting from melting raws in a typical refining operation).....	Short ton.....	6,635	6,438	954	21,467	18,021	2,744
2061221	Other sugar grades (yellow clarified, white clarified, turbinado, crystals, and all special grades other than granulated).....	...do.....	39,523	34,805	5,025	25,364	43,585	6,134
2061231	Sugar cane sirup (from which no sugar has been removed) <sup>2</sup> .....	...do.....	xxx	16,333	2,385	xxx	31,171	3,610
2061241	Molasses, except blackstrap (from which some sugar has been removed).....	...do.....		25,481	1,351		47,211	2,940
2061251	Blackstrap molasses (except refiners blackstrap).....	...do.....		212,255	4,243		147,958	6,754
2061261	Bagasse.....	...do.....		496,168	1,296		223,504	524
2061298	Other cane sugar mill products and by-products.....	.....	...	...	...	...	...	50
2062---	Cane sugar refining, total.....	.....	xxx	xxx	863,969	xxx	xxx	818,180
20621	Refined cane sugar.....	Short ton.....	5,261,364	5,286,321	858,971	5,205,498	5,190,207	803,542
	Granulated cane sugar.....	...do.....	4,154,088	4,160,958	667,357	4,536,338	4,523,460	696,591
2062111	Shipped in consumer units (cartons and sacks of 1, 2, 5, 10, and 25 pounds), including such sizes packed for shipment in cases, bales, or bundles.....	Short ton.....	xxx	2,273,035	371,852	xxx	2,192,513	341,824
2062113	Shipped in bulk containers (50 and 100 pound bags, and barrels).....	...do.....		1,723,135	270,073		2,302,777	350,579
2062115	Shipped in bulk (rail cars or trucks).....	...do.....		164,788	25,432		28,170	4,188
2062121	Cube and tablet sugar.....	...do.....		21,183	21,006	xxx	20,494	4,223
	Confectioner's powdered.....	...do.....	xxx	289,698	310,907		236,753	38,446
2062131	Shipped in consumer units (containers of 10 pounds or less).....	...do.....		138,470	29,083		86,320	15,601
2062135	Shipped in bulk containers (more than 10 pounds).....	...do.....		172,437	28,571		146,124	22,845
	Soft or brown sugar.....	...do.....	167,930	165,993	29,719	143,342	145,574	23,103
2062141	Shipped in consumer units (containers of 10 pounds or less).....	...do.....	xxx	83,581	16,793	xxx	69,717	12,068
2062145	Shipped in bulk containers (more than 10 pounds).....	...do.....		82,412	12,926		75,857	11,035
	Liquid sugar or sugar sirup: <sup>3</sup>							
2062153	Sucrose type.....	Short ton of sugar solids.....	440,083	440,623	68,608	184,530	184,710	28,264
2062155	Invert type.....	...do.....	179,297	178,683	27,748	84,041	83,728	12,915
2062161	Invert sugar, plastic.....	Short ton.....	9,085	8,151	1,840	...	240,324	14,638
20622	Other cane sugar refinery product and byproducts.....	...do.....	xxx	196,121	4,998	...	4191,174	48,161
2062211	Refiners' blackstrap and barrel sirup.....	...do.....	xxx	185,314	3,689	xxx	449,150	46,477
2062251	Refiners' sirup, other than blackstrap and barrel sirup (including filtered blackstrap).....	...do.....	xxx	10,807	1,309	...	...	...
2063---	Beet sugar, total.....	.....	xxx	xxx	289,561	xxx	xxx	262,872
20631	Refined beet sugar.....	Short ton.....	1,780,434	1,672,883	257,108	1,726,816	1,460,891	233,333
	Granulated beet sugar.....	...do.....	1,632,385	1,538,198	235,138	1,712,799	1,440,776	229,991
2063111	Shipped in consumers units (cartons and sacks of 1, 2, 5, 10, and 25 pounds) including shipments in cases, bales, or bundles).....	...do.....	xxx	375,383	59,678	xxx	441,461	72,091
2063113	Shipped in bulk containers (50 and 100 pounds, bags and barrels).....	...do.....	xxx	1,065,899	160,939	xxx	999,315	157,900
2063115	Shipped in bulk (rail cars or trucks).....	...do.....	xxx	96,916	14,521	...	...	...
	Confectioner's powdered sugar.....	...do.....	39,777	43,512	7,455	14,017	20,115	3,342
2063131	Shipped in consumer units (containers of 10 pounds or less).....	...do.....	xxx	10,641	2,120	xxx	20,115	3,342
2063135	Shipped in bulk containers (more than 10 pounds).....	...do.....	xxx	32,871	5,335	...	...	...
2063151	Liquid beet sugar.....	Short ton of sugar solids.....	108,272	91,173	14,515	xxx	( <sup>5</sup> )	( <sup>5</sup> )

See footnotes at end of table.

## SUGAR, CONFECTIONERY AND RELATED PRODUCTS

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Table 6A.--QUANTITY AND VALUE OF PRODUCTS SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, FOR THE UNITED STATES: 1954 AND 1947--Continued

Product code	Product	Unit of quantity	Production for all purposes (quantity) <sup>1</sup>	1954		1947	
				Total shipments including interplant transfers		Total shipments including interplant transfers	
				Quantity	Value, excluding excise taxes (\$1,000)	Quantity	Value, excluding excise taxes (\$1,000)
2063---	Beet sugar--Continued						
20632	Other beet sugar factory products and byproducts	.....		xxx	32,453	xxx	29,539
2063211	Edible beet sirup and molasses, other than liquid sugar.....	Short ton.....		9,848	1,184	(5)	(5)
2063221	Whole or straighthouse molasses:						
2063225	Shipped for desugarization.....	...do.....	xxx	131,285	3,068	xxx	124,215
	Shipped for other uses.....	...do.....		74,697	1,787		126,233
2063231	Discard molasses.....	...do.....		215,664	5,190		125,392
2063241	Molasses beet pulp.....	...do.....		347,900	13,459		199,265
2063251	Dried beet pulp, plain.....	...do.....		111,571	4,442		97,910
2063261	Wet beet pulp (estimated dry weight basis)...	...do.....		1,229,529	3,323		61,869,000
2063298	Other beet sugar factory products and byproducts.....	.....	...	...	...	xxx	xxx
							\$1,092
2071---	Confectionery products (except confectionery type solid chocolate), total.....	.....		xxx	982,501	xxx	936,875
20711	Candy bars (except solid chocolate) <sup>7</sup> .....	.....	xxx	xxx	230,205	xxx	296,167
2071111	Chocolate covered (made by enrobing separately prepared centers with chocolate covering).....	Thousand pounds		523,081	189,885		761,716
2071131	Other bars.....	...do.....	(NA)	142,804	40,320	(NA)	149,771
20712	5¢ and 10¢ candies, except bars and cough drops.....	.....		xxx	85,065	xxx	72,096
2071211	Hard.....	Thousand pounds		63,445	23,784		91,210
2071231	Gums and jellies.....	...do.....	(NA)	28,922	7,776	(NA)	24,252
2071251	Caramels.....	...do.....		13,536	4,158		29,166
2071271	Panned goods.....	...do.....		16,440	4,578		14,640
2071298	Other 5¢ and 10¢ specialties.....	...do.....		116,156	44,769		68,632
20713	Package candy goods.....	.....		xxx	297,532	xxx	227,840
2071311	\$1.50 or more per pound.....	Thousand pounds		51,448	60,006	(NA)	157,258
2071331	\$1.00 to \$1.49 per pound.....	...do.....	(NA)	77,983	68,767		108,824
2071351	50¢ to 99¢ per pound.....	...do.....		112,965	55,627		169,911
2071371	Less than 50¢ per pound <sup>8</sup> .....	...do.....		419,145	113,132		
20714	Bulk candy goods.....	.....	...	xxx	154,686	...	xxx
2071411	Chocolate covered.....	Thousand pounds		136,138	63,243		161,586
	Non-chocolate bulk candy:						
2071431	Hard.....	...do.....		108,141	25,542		122,012
2071432	Gum and jellies.....	...do.....		61,411	11,101		69,352
2071433	Cream work.....	...do.....		35,141	6,725		41,733
2071434	Lozenges.....	...do.....	xxx	8,308	1,605	xxx	11,702
2071435	Caramels.....	...do.....		22,983	4,947		44,559
2071436	Toffees.....	...do.....		9,171	2,004		3,804
2071437	Peanut brittle.....	...do.....		10,355	2,356		16,561
2071439	Other non-chocolate bulk candy.....	...do.....		149,561	37,163		105,006
2071511	Salted, roasted, cooked or blanched nuts, sold in bulk.....	...do.....		113,728	46,744		83,392
20716	Other candy and confectionery.....	.....	...	xxx	143,034	...	xxx
2071611	Cough drops selling at retail for 10¢ or less per package.....	Thousand pounds		27,952	12,520		29,874
2071621	Penny goods.....	...do.....	(NA)	158,893	42,563		89,472
2071631	Canned nutmeats (including peanuts).....	...do.....		45,383	29,684		106,487
2071651	Other packaged nutmeats (including peanuts).....	...do.....		87,580	38,218	(NA)	
2071671	Glaze, candied and crystallized fruit and nuts (n.e.c.).....	...do.....		39,491	15,601		40,202
2071698	Other candy and confectionery, n.e.c.....	...do.....		xxx	4,518		
2071000	Candy and confectionery, not specified by kind..	.....	(NA)	xxx	25,235	xxx	xxx
2072---	Chocolate and cocoa products, total.....	.....	xxx	xxx	471,965	xxx	xxx
20721	Chocolate coatings.....	Thousand pounds	...	289,744	131,014	...	423,290
2072111	Sweet.....	...do.....		101,636	43,297		226,378
2072121	Milk.....	...do.....	xxx	143,706	64,770	xxx	161,589
2072131	Liquor.....	...do.....		44,402	22,947		35,323

See footnotes at end of table.



Table 6A.--QUANTITY AND VALUE OF PRODUCTS SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, FOR THE UNITED STATES: 1954 AND 1947--Continued

Product code	Product	Unit of quantity	1954			1947		
			Production for all purposes (quantity) <sup>1</sup>	Total shipments including interplant transfers		Production for all purposes (quantity) <sup>1</sup>	Total shipments including interplant transfers	
				Quantity	Value, excluding excise taxes (\$1,000)		Quantity	Value, excluding excise taxes (\$1,000)
2072---	Chocolate and cocoa products--Continued							
20722	Chocolate and cocoa products, except coatings...		...	xxx	340,271	...	xxx	198,715
	Chocolate (except coatings).....	Thousand pounds		285,426	161,873		9306,355	9132,507
	For baking, cooking, etc:							
2072211	Unsweetened.....	do.....	xxx	20,725	14,619	xxx	15,792	6,078
2072221	Sweetened.....	do.....		52,318	25,950		10	10
	Confectionery-type (solid bars, and other molded confections):							
2072231	Dark chocolate.....	do.....		8,765	5,355		1069,258	1026,655
	Milk chocolate:							
2072241	Plain.....	do.....		105,792	60,090		135,923	57,232
2072245	With nuts, etc.....	do.....		97,826	55,859		85,382	42,542
	Cocoa, powdered:							
2072261	Unsweetened:							
	In cans or packages of 2-1/2 pounds or less.....	do.....		38,610	20,107		1141,802	119,460
2072265	In other containers and in bulk (barrels, drums, bags, etc.).....	do.....		86,736	39,552		11100,795	1119,465
	Sweetened or mixed with other substances:		(NA)			(NA)		
2072271	In cans or packages of 2-1/2 pounds or less.....	do.....		74,165	33,344			
2072275	In other containers and in bulk (barrels, drums, bags, etc.).....	do.....		19,772	9,254		1129,527	119,386
2072281	Cocoa butter.....	do.....		26,549	25,939		25,723	16,860
	Chocolate sirups:							
2072291	In cans or packages of 16 oz. or less.....	do.....		109,820	19,361			
2072295	In other containers and in bulk.....	do.....		152,637	25,155		95,483	10,197
2072298	Other chocolate and cocoa products, n.e.c.	do.....		22,828	5,686			
2072000	Chocolate and cocoa products, not specified by kind.....			xxx	680		(NA)	840
2073---	Chewing gum, total.....			xxx	153,524		...	150,900
20730	Chewing gum and chewing gum base.....			xxx	153,524		xxx	xxx
2073011	Chewing gum, not medicated.....	Thousand pounds		274,678	151,372		206,578	149,510
2073015	Chewing gum base.....	do.....		7,538	2,152		(NA)	1,390

xxx Not applicable.

D Withheld to avoid disclosing figures for individual companies.

NA Not available.

<sup>1</sup>Sugar production figures differ slightly from data published by the Department of Agriculture largely because, (1) some establishments submitted Census reports on a fiscal year basis; (2) the inclusive Census data of some refined cane sugar produced at cane sugar mills, and excluded from the Department of Agriculture figures; (3) the exclusion from Census data of raw cane sugar produced at establishment classified as forms for Census purposes, and (4) the exclusion from Census data of establishment operated by State governments (see general explanations).

<sup>2</sup>Includes only sirup made in raw sugar and commercial sirup mills. Farm sirup mills were considered to be outside the scope of the Census.

<sup>3</sup>Excludes liquid sugar and sugar sirups produced by confectionery and beverage base manufactures for their own use.

<sup>4</sup>Filtered blackstrap included with refiners blackstrap and barrel sirup.

<sup>5</sup>Liquid beet sugar and edible beet sirup and molasses are included with "Other beet sugar factory products and byproducts." Value understated because of inclusion of a substantial amount of interplant transfers at nominal values.

<sup>6</sup>Quantity for 1947 taken from reports of the Bureau of Agricultural Economics, U. S. Department of Agriculture. Quantities were not uniformly reported to the Census Bureau.

<sup>7</sup>Does not include confectionery type solid chocolate (solid chocolate bars and other molded chocolate confections) shown under product codes 2072231, 2072241, and 2072245.

<sup>8</sup>Includes small quantities not specified by kind or retail price class.

<sup>9</sup>Includes 245,085 thousand pounds of confectionery type solid chocolate products valued at \$108,707,000.

<sup>10</sup>Sweetened chocolate for baking, cooking, etc. (code 2072221) included with dark chocolate (code 2072231).

<sup>11</sup>Figures for 1947 represent the output of plants classified in Industry 2072, Chocolate and cocoa products.

## SUGAR; CONFECTIONERY AND RELATED PRODUCTS

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Table 6B.—VALUE OF PRODUCT CLASSES SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, BY DIVISIONS AND STATES FOR 1954, AND UNITED STATES TOTALS FOR EARLIER YEARS

(In thousands of dollars. Statistics are shown for selected product classes which are economically significant and production of which is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (Table 2) and they are not miscellaneous or "not specified by type" classes. For each product class, States are listed only if the value of shipments is more than \$1 million and the figure does not disclose individual company information. Additional States which had shipments of more than \$1 million of the individual product classes are listed in footnote 1)

Product class, region, and State <sup>1</sup>	Value of shipments	Product class, region, and State <sup>1</sup>	Value of shipments	Product class, region, and State <sup>1</sup>	Value of shipments
<u>Candy bars (except solid chocolate) (20711)</u>		<u>Package candy goods (20713)—Continued</u>		<u>Bulk candy goods (20714)—Continued</u>	
1954 United States, total.....	230,205	Middle Atlantic.....	95,054	East South Central.....	5,513
1947 United States, total.....	296,167	New York.....	40,534	Kentucky.....	2,465
1954		New Jersey.....	16,431	Tennessee.....	1,989
New England.....	27,475	Pennsylvania.....	38,088	West South Central.....	3,065
Middle Atlantic.....	34,972	East North Central.....	87,132	Mountain.....	1,405
New York.....	8,311	Ohio.....	9,294	Pacific.....	10,467
New Jersey.....	5,244	Indiana.....	5,326	Washington.....	1,582
Pennsylvania.....	21,416	Illinois.....	64,678	California.....	8,620
East North Central.....	119,491	Michigan.....	4,049	<u>Salted, roasted, and blanched nuts (20715)</u>	
Indiana.....	3,226	Wisconsin.....	3,785	1954 United States, total.....	46,744
Illinois.....	111,995	West North Central.....	13,003	1947 United States, total.....	25,105
Wisconsin.....	3,787	Minnesota.....	1,064	1954	
West North Central.....	8,839	Missouri.....	4,712	New England.....	1,390
Minnesota.....	4,094	South Atlantic.....	12,971	Middle Atlantic.....	8,628
South Atlantic.....	10,744	Virginia.....	1,763	New York.....	2,017
Georgia.....	6,539	Georgia.....	8,097	New Jersey.....	4,795
East South Central.....	4,405	East South Central.....	4,957	Pennsylvania.....	1,816
West South Central.....	6,618	Tennessee.....	4,372	East North Central.....	9,956
Pacific.....	17,223	West South Central.....	10,287	Ohio.....	2,397
<u>5¢ and 10¢ candies, except bars and cough drops (20712)</u>		Texas.....	9,271	Illinois.....	6,602
1954 United States, total.....	85,065	Mountain.....	6,450	West North Central.....	5,161
1947 United States, total.....	72,096	Utah.....	3,407	South Atlantic.....	9,638
1954		Pacific.....	30,296	Pacific.....	11,088
New England.....	5,361	Washington.....	5,288	<u>Other candy and confectionery (20716)</u>	
Middle Atlantic.....	47,099	Oregon.....	330	1954 United States, total.....	143,034
New York.....	25,266	California.....	24,677	1947 United States, total.....	137,710
New Jersey.....	13,615	<u>Bulk candy goods (20714)</u>		1954	
Pennsylvania.....	8,218	1954 United States, total.....	154,686	New England.....	9,291
East North Central.....	24,369	1947 United States, total.....	177,957	Massachusetts.....	9,117
Illinois.....	22,050	1954		Middle Atlantic.....	39,164
Wisconsin.....	1,895	New England.....	12,275	New York.....	14,149
South Atlantic.....	2,725	Middle Atlantic.....	47,929	New Jersey.....	10,403
Virginia.....	1,897	New York.....	23,136	Pennsylvania.....	14,612
East South Central.....	967	New Jersey.....	4,985	East North Central.....	25,425
West South Central.....	1,526	Pennsylvania.....	19,808	Ohio.....	5,866
Texas.....	1,168	East North Central.....	60,399	Indiana.....	4,678
Pacific.....	2,165	Ohio.....	6,039	Illinois.....	12,757
California.....	2,007	Indiana.....	1,221	Wisconsin.....	1,802
<u>Package candy goods (20713)</u>		Illinois.....	49,245	West North Central.....	7,101
1954 United States, total.....	297,532	Michigan.....	2,544	Iowa.....	3,012
1947 United States, total.....	227,840	Wisconsin.....	1,349	South Atlantic.....	35,001
1954		West North Central.....	9,259	Maryland.....	3,150
New England.....	37,380	Minnesota.....	4,449	Georgia.....	2,908
Massachusetts.....	34,984	Iowa.....	1,357	East South Central.....	4,326
		Missouri.....	2,467	Kentucky.....	1,436
		South Atlantic.....	4,372	Tennessee.....	1,696
		Maryland.....	1,241	West South Central.....	4,484
		Georgia.....	1,651	Texas.....	3,521
				Pacific.....	17,794
				California.....	17,463

<sup>1</sup>For the specified product classes, shipments of over \$1 million were reported for the States listed but the exact figures are withheld to avoid disclosure of individual company figures: 20711, Massachusetts, Connecticut, Missouri, South Dakota, Virginia, Tennessee, Alabama, Louisiana, Washington, California, and Texas; 20712, Massachusetts; 20713, Rhode Island, Kansas, Nebraska, South Carolina, and Colorado; 20714, Massachusetts, Oklahoma, and Alabama; 20715, Massachusetts, Missouri, Minnesota, Iowa, North Carolina, Virginia, and California; 20716, Minnesota, North Carolina, Virginia, and Alabama.

## MANUFACTURES--INDUSTRY STATISTICS

Table 7.--MATERIALS CONSUMED, BY KIND: 1954

Materials code number	Description of materials	Unit of measure	Industry 2061-- Raw cane sugar		Industry 2062-- Cane sugar refining		Industry 2063-- Beet sugar	
			Quantity	Delivered cost (\$1,000)	Quantity	Delivered cost (\$1,000)	Quantity	Delivered cost (\$1,000)
	Materials, containers, and supplies, total.....		xxx	48,007	xxx	716,135	xxx	181,652
011141	Sugar cane.....	Tons.....	<sup>1</sup> 5,914,716	<sup>1</sup> 41,073	xxx	( <sup>1</sup> )	xxx	xxx
011145	Sugar beets.....	...do.....	xxx	xxx	xxx	xxx	13,025,808	149,063
206111	Raw cane sugar (96 degree basis).....	...do.....	xxx	( <sup>2</sup> )	<sup>2</sup> 5,501,441	<sup>2</sup> 664,997	xxx	xxx
970000	All other materials, ingredients, containers and supplies consumed.....		xxx	6,615	xxx	51,138	xxx	32,589
971000	Materials, etc., not specified by kind.....		xxx	319	xxx	xxx	xxx	xxx
			Industry 2071-- Confectionery products		Industry 2072-- Chocolate and cocoa products		Industry 2073-- Chewing gum	
			Quantity	Delivered Cost (\$1,000)	Quantity	Delivered cost (\$1,000)	Quantity	Delivered cost (\$1,000)
	Materials, container and supplies, total.....		18,350,964	561,988	76,686,205	348,008	1,233,342	65,314
206011	Sugar (cane and beet).....	Cwt.....	9,784,221	88,352	3,605,162	30,850	1,063,083	9,243
084221	Chicle <sup>1</sup> .....	...do.....	xxx	xxx	xxx	xxx	xxx	xxx
207211	Chocolate coatings, including cocoa powder composition coatings.....	...do.....	2,648,185	119,793	xxx	xxx	xxx	xxx
011231	Cocoa beans.....	...do.....	129,500	6,719	4,490,773	226,840	xxx	xxx
970000	All other ingredients, materials, containers and supplies, including materials, etc., not specified by kind.....		xxx	347,124	xxx	90,318	xxx	56,071

<sup>1</sup>Chicle combined with "all other ingredients, etc.", code 970000, to avoid disclosure of figures for individual companies.<sup>2</sup>Included in "all other materials, etc.," code 970000, to avoid disclosure of figures for individual companies.



## SUGAR; CONFECTIONERY AND RELATED PRODUCTS

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Table 8.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY INDUSTRY SPECIALIZATION AND PRIMARY PRODUCT CLASS SPECIALIZATION, FOR THE UNITED STATES: 1954

(This table presents selected statistics for establishments classified according to their degree of specialization in products primary to the industry. The establishments are classified in two ways: (1) by industry specialization—the degree of specialization in all primary products of the industry; and (2) by product-class specialization—the degree of specialization in the largest product class of the establishment. The degree of "industry specialization" for an establishment represents the ratio of its primary product shipments to its total product shipments, primary and secondary. The degree of "product-class specialization" for an establishment represents the ratio of its largest product class shipments to its total product shipments, primary and secondary. Data are not shown for some industries, product classes, and specialization ranges for a variety of reasons, consequently, detailed figures frequently do not add to the totals. See Introduction for detailed explanation)

Ind. or product class No.	Industry or product class by percent of specialization	Establishments, number	All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
2071	CONFECTIONERY PRODUCTS (entire industry).....	1,434	66,799	201,706	55,220	107,952	143,850	422,314	570,282	992,597
	Establishments with:									
	90% or more specialization.....	1,332	59,385	180,941	48,815	95,222	128,262	370,811	487,678	858,490
	75-89% specialization.....	43	3,865	10,231	3,419	6,711	8,014	24,941	47,911	72,852
	50-74% specialization.....	42	3,217	9,311	2,743	5,568	6,865	24,682	31,736	56,418
	All other <sup>1</sup> .....	17	331	1,222	241	449	707	1,880	2,956	4,837
20711	Bar goods (except solid chocolate):									
	All establishments specializing in product class.	129	11,231	37,833	9,268	18,277	26,670	96,304	140,115	236,420
	Establishments with:									
	90% or more specialization.....	71	3,854	14,250	3,002	5,818	9,466	30,770	65,098	95,869
	75-89% specialization.....	16	2,336	5,311	1,896	3,745	5,701	18,743	24,549	43,292
	50-74% specialization.....	30	4,238	12,726	3,746	7,478	9,792	42,187	44,360	86,547
	Less than 50% specialization.....	12	803	2,546	624	1,234	1,711	4,604	6,107	10,711
20712	5¢ & 10¢ specialties (except bars and cough drops):									
	All establishments specializing in product class.	64	3,405	11,739	2,803	5,263	8,142	30,068	25,299	55,368
	Establishments with:									
	90% or more specialization.....	28	943	3,795	774	1,517	2,650	14,496	9,271	23,768
	75-89% specialization.....	6	124	290	108	212	226	606	720	1,327
	50-74% specialization.....	24	1,700	5,373	1,407	2,577	3,715	10,821	10,247	21,069
	Less than 50% specialization.....	6	638	2,281	513	956	1,550	4,143	5,059	9,203
20713	Package candy goods:									
	All establishments specializing in product class.	316	28,230	86,789	23,213	45,326	60,624	153,404	190,455	343,860
	Establishments with:									
	90% or more specialization.....	181	11,516	32,908	9,511	17,358	22,975	58,064	61,254	119,319
	75-89% specialization.....	37	4,944	14,585	4,090	7,874	10,528	21,303	27,924	49,227
	50-74% specialization.....	76	6,775	25,091	5,398	11,125	16,678	50,434	66,213	116,648
	Less than 50% specialization.....	22	4,994	14,204	4,212	8,967	10,440	23,602	35,062	58,665
20714	Bulk candy goods:									
	All establishments specializing in product class.	272	10,807	29,840	8,800	17,470	22,602	52,381	73,696	126,077
	Establishments with:									
	90% or more specialization.....	150	4,460	10,419	3,504	7,040	8,349	19,251	26,994	46,245
	75-89% specialization.....	34	1,487	4,688	1,250	2,481	3,376	8,513	13,887	22,400
	50-74% specialization.....	60	2,968	9,134	2,431	4,741	6,790	15,259	18,283	33,543
	Less than 50% specialization.....	28	1,892	5,599	1,613	3,207	4,086	9,357	14,530	23,888
20715	Salted, roasted, and blanched nuts:									
	All establishments specializing in product class.	55	1,173	3,749	886	1,756	2,201	9,859	23,808	33,667
	Establishments with:									
	90% or more specialization.....	30	471	1,500	352	683	876	3,940	7,848	11,789
	75-89% specialization.....	9	448	1,477	327	674	795	4,477	10,012	14,490
	50-74% specialization.....	8	115	318	102	186	248	581	2,606	3,187
	Less than 50% specialization.....	8	138	453	104	211	281	859	3,341	4,201
20716	Other candy and confectionery:									
	All establishments specializing in product class.	214	7,987	22,018	6,870	13,460	16,171	59,468	89,657	149,125
	Establishments with:									
	90% or more specialization.....	134	2,005	5,550	1,591	3,113	3,646	13,295	18,840	32,135
	75-89% specialization.....	14	514	1,454	435	809	1,009	3,345	7,757	11,103
	50-74% specialization.....	45	3,807	10,256	3,426	6,701	8,016	30,764	49,178	79,943
	Less than 50% specialization.....	21	1,660	4,757	1,417	2,836	3,499	12,063	13,880	25,943
2072	CHOCOLATE AND COCOA PRODUCTS (entire industry).....	28	8,465	33,133	6,677	13,503	23,219	81,745	351,096	432,842
	Establishments with:									
	90% or more specialization.....	24	7,788	30,492	6,162	12,419	21,542	74,153	330,031	404,185
20721	Chocolate coatings:									
	All establishments specializing in product class.	16	1,443	6,036	1,152	2,352	3,774	14,208	70,634	34,842
	Establishments with:									
	90% or more specialization.....	4	70	226	62	114	174	2,043	6,021	8,065
	75-89% specialization.....	5	595	2,124	491	918	1,443	4,052	17,324	21,376
	50-74% specialization.....	7	778	3,685	598	1,319	2,156	8,112	47,288	55,401

<sup>1</sup>This class includes data for establishments with less than 50 percent specialization in the primary products of the industry and establishments engaged exclusively in contract work defined in the industry. Miscellaneous small statistical adjustments are also included.

## MANUFACTURES--INDUSTRY STATISTICS

Table 9.—VALUE OF SHIPMENTS OF CONFECTIONERY PRODUCTS, BY MANUFACTURING INDUSTRY AND BY CLASS OF CUSTOMER: 1954

(Includes confectionery and confectionery-type solid chocolate products, product codes 2071111-439, 611-21,671-98,000 and 2072231-245)

Item	Shipments including interplant transfers					
	Total		Confectionery Products Industry 2071		Other manufacturing industries	
	Value (\$1,000)	Percent of total	Value (\$1,000)	Percent of total	Value (\$1,000)	Percent of total
Shipments by all manufacturing establishments.....	989,229	xxx	(NA)	xxx	(NA)	xxx
Shipments by establishments reporting class of customer data, total.....	971,396	100	835,765	100	135,631	100
To outlets owned by the manufacturing company:						
Confectionery stores <sup>1</sup> .....	66,492	7	66,492	8	...	...
Grocery stores.....	11,694	1	11,694	1	...	...
Sales to others:						
To wholesalers or jobbers, excluding retailers cooperatives	460,130	48	385,407	46	74,723	55
To vending machine operators.....	34,536	4	25,161	3	9,375	7
To independent retail stores <sup>2</sup> .....	107,947	11	105,394	13	2,553	2
To multi-unit organizations (4 or more stores):						
Grocery chains (including cooperatives).....	141,213	15	114,628	14	26,585	20
Drug chains.....	41,724	4	37,506	4	4,218	3
General merchandise and variety chains including syndicates.....	50,584	5	44,610	5	5,974	4
Theatre chains, including concessionaires.....	20,091	2	13,510	2	6,581	5
Other chains.....	13,683	1	12,338	2	1,345	1
To Federal Government.....	12,492	1	9,891	1	2,601	2
To consumers from factory (including mail).....	6,198	1	5,998	1	200	(Z)
Direct export shipments.....	4,612	(Z)	3,136	(Z)	1,476	1

NA Not available.

Z Less than 0.5 percent.

<sup>1</sup>Represents sales through 1,540 retail stores or outlets.<sup>2</sup>Includes companies with 2 or 3 stores.

## Beverages

This report shows 1954 Census of Manufactures statistics for establishments classified in each of the following industries:

<u>Code</u>	<u>Title</u>
2081--	Bottled Soft Drinks
2082--	Beer and Ale
2083--	Malt
2084--	Wines and Brandy
2085--	Distilled Liquor

Shipments of each of these industries 1954-1947 consisted almost entirely of the primary products of each of the particular industries with only negligible amounts of these products produced in other industries. Because of the nearly 100 percent primary product specialization and coverage for each of the five industries included in this report there is an unusually close relationship between the industry data shown in Tables 1-4 and the product statistics shown in Table 6A.

2081--Bottled Soft Drinks (Full Standard Industrial Classification Title: Bottled Soft Drinks and Carbonated Waters)

This industry comprises establishments primarily engaged in manufacturing bottled or canned soft drinks (nonalcoholic beverages) and carbonated waters. Establishments primarily engaged in manufacturing fruit and vegetable juices are classified in Industry 2033, Canned Fruits and Vegetables; fruit sirups for flavoring in Industry 2095, Flavorings; and cider in Industry 2099, Food Preparations, N.E.C. Establishments primarily engaged in bottling natural spring waters are classified in Trade industries.

For a detailed list of primary products of Industry 2081, refer to Table 6A, product codes 2081010 to 2081098.

The value of shipments of Industry 2081, Bottled Soft Drinks, in 1954 totaled \$1113 million. This included shipments of primary products (bottled soft drinks) valued at \$1087 million, shipments of secondary products valued at \$18 million, and miscellaneous receipts of \$8 million. Excluded from these totals are \$76 million of products bought and resold without further processing (merchandising). Data relating to merchandising receipts are also excluded from the cost of materials and value added; however, the merchandising activity is reflected in other industry statistics, principally payrolls and inventories.

For the most part, the value of shipments figures for Industry 2081 represent delivered value rather than value f.o.b. plant, since most of the manufacturers operate their own delivery service. This fact is reflected in the large number of "other workers," which includes delivery personnel, in relation to the total number of employees, as shown in Tables 1-3.

2082--Beer and Ale (Full Standard Industrial Classification Title: Malt Liquors)

This industry comprises establishments primarily engaged in manufacturing all kinds of malt liquors such as ale, beer, porter, stout, and malt extract. Establishments primarily engaged in bottling purchased malt liquors are classified in trade industries.

For a detailed list of primary products of Industry 2082, refer to Table 6A, product codes 2082111 to 2082255.

The value of shipments of Industry 2082, Beer and Ale in 1954 totaled \$1857 million. This included shipments of primary products (beer and ale, and brewery byproducts) valued at \$1851 million, shipments of secondary products valued at \$4 million, and miscellaneous receipts of \$2 million.

### 2083--Malt

This industry comprises establishments primarily engaged in manufacturing malt or malt byproducts, such as malt sprouts, screening, chaff, and skimmings, from barley or other grains.

For a detailed list of primary products of this industry, refer to Table 6A, product codes 2083111 to 2083211.

The value of shipments of Industry 2083, Malt, in 1954 totaled \$202 million. This included shipments of primary products (malt and malt byproducts) valued at \$193 million, and miscellaneous receipts of \$9 million.

2084--Wines and Brandy (Full Standard Industrial Classification Title: Wines, Brandy, and Brandy Spirits)

This industry comprises establishments primarily engaged in manufacturing wines, brandy, and brandy spirits. Bonded storerooms which engaged in blending wines are also included in this industry. Establishments primarily bottling purchased wines, brandy and brandy spirits but which do not manufacture or blend wines and brandy are classified in trade industries.

For a detailed list of primary products of Industry 2084, refer to Table 6A, product codes 2084011 to 2084071, 2084X11, and 2084X31.

The value of shipments and cost of materials data for Industry 2084 contain a considerable amount of duplication, which arises from the transfer of wine between establishments within the industry. Both finished and unfinished wines are shipped from wineries "in bond" to establishments which age, blend, clarify, bottle or otherwise process the product, pay the Federal tax and ship the finished wine to dealers. The quantity and value of a given lot of wine may therefore be reported in the census by two or more establishments, first in bond and later as tax-paid.

Manufacturers and others processing wines and brandy are licensed by the Bureau of Internal Revenue as wineries, fruit distilleries, bonded wine storerooms, bonded field warehouses, and rectifying plants. Frequently, however, two or more licensed premises are under the same ownership at the same location, and were counted in the census as one establishment. A substantial number of the establishments holding licenses were located on farms, had no employees, were primarily engaged in nonmanufacturing activities, or for other reasons were outside the scope of the Census of Manufactures. Consequently, the number of licensed premises shown in the annual reports of the Commissioner of Internal Revenue is considerably larger than the number of establishments shown in this report. Comparison with Bureau of Internal Revenue production figures indicates that establishments not included in the Census of Manufactures accounted for a substantial proportion of the total output of wines and brandies.

2085--Distilled Liquor (Full Standard Industrial Classification Title: Distilled, Rectified, and Blended Liquors)

This industry comprises establishments primarily engaged in manufacturing alcoholic liquors by distillation and rectification, and in manufacturing cordials and alcoholic cocktails by blending processes, or by mixing liquors and other ingredients. Important products of this industry include grain alcohol (neutral spirits), straight and blended whiskies, rum, gin, cordials, liqueurs, and prepared alcoholic cocktails. Establishments primarily engaged in manufacturing industrial alcohol are classified in Industry 2829, Organic Chemicals, N.E.C., and those only bottling purchased liquors in Trade industries.



For a detailed list of primary products of Industry 2085, refer to Table 6A, product codes 2085111 to 2085381.

The value of shipments of Industry 2085, Distilled Liquor, Except Brandy, in 1954 totaled \$711 million. This included shipments of primary products (distillery products and bottled liquors) valued at \$683 million, shipments of secondary products valued at \$8 million, and miscellaneous receipts of \$21 million. Excluded from these totals are \$43 million of products bought and resold without further processing (merchandising). Data relating to merchandising receipts are also excluded from cost of materials and value added; however, this activity is reflected in other industry statistics, principally payrolls and inventories.

Manufacturers and bottlers of alcoholic beverages are licensed by the Bureau of Internal Revenue as registered distillers, tax paid bottling houses, rectifying plants, and bonded warehouses. Frequently two or more of the premises licensed by the Bureau of Internal Revenue are under the same owner-

ship at the same location, and are counted in the Census of Manufactures as one establishment. Other establishments licensed by the Bureau of Internal Revenue are primarily engaged in nonmanufacturing activities and are, therefore, classified in Trade industries. For these reasons, the number of licensed premises shown in the annual reports of the Commissioner of Internal Revenue is considerably larger than the number of establishments classified in this industry in the Census of Manufactures. Comparison with Bureau of Internal Revenue production figures indicates, however, that establishments included in the Census of Manufactures accounted for a very high proportion of the total output of distilled liquors.

There is some duplication in the value of shipments and cost of materials figures for Industry 2085. Some of the products of distillers (chiefly spirits) are used, in the same year in which produced, as raw materials of rectifying and bottling plants and therefore are included in the value of shipments more than once.

The general statistics (employment, payrolls, value of shipments, cost of materials, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products, and, for that matter, their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (Tables 1-4) with product statistics (Table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in Table 5A which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry made as secondary products by establishments classified in other industries.

Table 1.—GENERAL STATISTICS FOR THE UNITED STATES: 1954 AND EARLIER YEARS  
(For explanation of column captions see Introduction)

Industry and census year	Establishments, number	All employees		Production workers		Value added by manufacture <sup>2</sup> (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments <sup>3</sup> (\$1,000)
		Number <sup>1</sup>	Payroll (\$1,000)	Number <sup>1</sup>	Wages (\$1,000)			
Bottled soft drinks <sup>4</sup> (S.I.C. 2081):								
1954 <sup>5</sup> .....	4,643	91,616	319,879	41,575	109,519	635,045	478,034	1,113,077
1953 <sup>5</sup> .....	(NA)	99,106	339,509	41,671	111,851	687,036	497,882	1,184,918
1952 <sup>5</sup> .....	(NA)	83,939	266,141	36,265	83,623	541,040	393,060	934,100
1951 <sup>5</sup> .....	(NA)	84,189	242,621	36,798	78,856	508,553	368,418	876,971
1947.....	5,618	679,397	6194,305	641,214	683,291	420,711	327,485	748,196
1939 <sup>7</sup> .....	4,504	54,994	76,832	21,265	20,345	211,844	153,935	365,779
1937.....	3,920	34,683	46,406	27,979	30,981	164,399	112,380	276,779
1935.....	3,175	22,256	29,244	16,778	17,343	97,204	62,094	159,298
1933 <sup>8</sup> .....	2,903	18,497	19,480	15,123	14,197	69,424	41,873	111,297
1931.....	4,250	(NA)	(NA)	23,905	30,082	136,522	76,045	212,567
1929.....	5,154	36,072	57,896	28,281	38,314	167,298	103,026	270,324
1927.....	4,769	34,119	53,259	26,972	36,101	147,264	95,430	242,694
1925.....	4,210	34,662	52,508	27,384	36,053	139,295	98,466	237,761
1923.....	4,514	37,329	56,080	29,274	37,689	129,158	99,572	228,730
1921.....	3,336	18,876	24,197	14,651	16,286	54,491	61,086	115,577
1919.....	5,194	22,738	24,664	17,440	16,393	66,741	68,600	135,341
1914.....	5,463	19,401	12,958	15,506	8,864	31,622	26,779	58,401
1909.....	4,916	16,317	9,748	13,147	6,902	27,042	16,466	43,508
1904.....	3,468	12,455	6,881	10,879	5,488	20,249	10,002	30,251
1899.....	2,763	10,211	5,240	8,788	4,080	14,704	8,565	23,269
Beer and ale <sup>7</sup> (S.I.C. 2082):								
1954 <sup>9</sup> .....	301	81,346	420,546	53,698	261,497	1,100,741	756,311	1,857,053
1953 <sup>9</sup> .....	(NA)	84,849	425,492	61,537	293,708	1,153,004	799,582	1,952,586
1952 <sup>9</sup> .....	(NA)	81,170	376,126	59,318	259,750	1,034,626	742,461	1,777,087
1951 <sup>9</sup> .....	(NA)	82,017	359,147	59,414	243,152	939,399	679,475	1,618,874
1950 <sup>9</sup> .....	(NA)	81,155	332,931	58,054	219,445	937,463	612,058	1,549,521
1949 <sup>5</sup> .....	(NA)	78,704	314,904	57,878	212,188	926,540	577,184	1,503,724
1947 <sup>7</sup> .....	440	82,534	6292,405	63,668	6210,228	807,177	508,908	1,316,085
1939.....	605	61,185	122,265	36,088	62,231	363,180	162,897	526,077
1937.....	653	57,409	105,400	47,037	79,275	335,188	201,917	537,105
1935.....	666	47,725	82,839	39,169	60,615	280,112	139,918	420,030
1933 <sup>10</sup> .....	525	29,454	41,780	23,501	33,480	153,767	76,194	229,961
1921.....	531	22,872	41,519	18,551	29,366	1167,034	55,016	1122,050
1919.....	729	43,486	68,071	34,259	45,170	11285,112	94,793	11379,905
1914 <sup>12</sup> .....	1,204	(NA)	(NA)	62,026	53,244	11250,319	129,681	11380,000
1909.....	1,414	66,086	64,010	54,579	41,206	11278,134	96,596	11374,730
1904.....	1,530	57,192	51,857	48,137	34,540	11223,439	74,907	11298,346
1899.....	1,507	46,605	38,815	39,459	25,776	11185,317	51,598	11236,915

See footnotes at end of table.

## BEVERAGES

20G-3

Table 1.—GENERAL STATISTICS FOR THE UNITED STATES: 1954 AND EARLIER YEARS—Continued  
(For explanation of column captions see Introduction)

Industry and census year	Establishments, number	All employees		Production workers		Value added by manufacture <sup>2</sup> (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments <sup>3</sup> (\$1,000)
		Number <sup>1</sup>	Payroll (\$1,000)	Number <sup>1</sup>	Wages (\$1,000)			
Malt <sup>10</sup> (S.I.C. 2083):								
1954.....	45	2,603	14,627	2,036	10,167	48,149	153,838	201,988
1952 <sup>5</sup> .....	(NA)	2,448	11,361	1,989	7,994	48,218	177,962	225,531
1951 <sup>5</sup> .....	(NA)	2,589	14,169	2,068	8,015	48,258	182,827	230,436
1950 <sup>5</sup> .....	(NA)	2,455	9,669	2,014	7,335	42,226	171,128	212,805
1947.....	53	2,524	9,550	2,069	6,896	53,885	202,995	256,230
1939.....	52	1,902	4,137	1,459	2,593	19,183	39,296	58,479
1937.....	56	1,964	4,267	1,644	2,923	18,512	76,118	94,630
1935.....	54	1,717	3,581	1,439	2,348	18,706	56,412	75,118
1933.....	30	1,000	1,563	848	1,283	7,261	20,662	27,923
1931.....	27	(NA)	(NA)	540	866	5,322	13,920	19,242
1929.....	28	741	1,670	590	1,057	4,679	18,924	23,603
1927.....	23	624	1,356	500	904	3,087	17,187	20,274
1925.....	23	695	1,381	568	903	4,083	19,986	24,069
1923.....	22	665	1,222	487	742	3,277	13,154	16,431
1921.....	26	800	1,602	616	924	3,547	17,458	21,005
1919.....	55	1,705	2,863	1,352	1,245	7,727	31,613	39,340
1914.....	97	2,471	3,131	1,989	1,828	8,934	39,199	48,133
1909.....	114	2,185	2,232	1,760	1,348	7,788	30,464	38,252
1904.....	141	2,498	2,204	2,054	1,457	6,668	23,621	30,289
1899.....	146	2,280	1,654	1,990	1,183	4,557	14,817	19,374
Wines and brandy (S.I.C. 2084):								
1954.....	262	5,724	23,258	4,328	13,749	96,749	(14)	(14)
1947.....	418	7,697	21,896	5,824	13,681	95,015	(13)	(13)
1939.....	348	(NA)	(NA)	2,337	2,272	15,020	(13)	(13)
Distilled liquor (S.I.C. 2085):								
1954.....	133	21,505	89,367	17,117	65,504	356,741	354,571	711,313
1953.....	(NA)	21,396	86,383	17,164	62,148	388,880	512,963	901,843
1952.....	(NA)	18,993	80,834	14,984	56,264	351,419	413,628	765,047
1951.....	(NA)	22,754	94,577	17,785	67,886	412,881	529,608	942,489
1950.....	(NA)	23,754	81,755	19,237	60,543	453,507	508,984	962,491
1949.....	(NA)	22,743	74,769	17,741	52,386	403,655	445,200	848,855
1947.....	226	30,422	80,498	25,740	61,825	472,357	397,878	870,235
1939.....	236	(15)	(15)	(15)	(15)	(15)	(15)	(15)
1937.....	361	15,836	19,704	13,309	14,144	111,980	145,578	257,558
1935 <sup>10</sup> .....	391	16,771	18,069	14,035	12,888	118,357	133,648	252,005

NA Not available.

<sup>1</sup>For the period 1949-1954, figures are based on employment for the payroll periods ended nearest the 15th of March, May, August and November. (However, in the case of the "Wines and brandy" industry and the "Distilled liquors, except brandy" industry, a different method was used for 1954: All employees represents the average of 12 monthly figures, and production workers was calculated by subtracting from the all employees total the average number of nonproduction employees for March, May, August and November. For 1947, they represent the average of 12 monthly figures. For earlier years, the production worker average was calculated as in 1947, but the figure for all employees represents the sum of the annual average number of production workers and the number of nonproduction workers reported for one payroll period (usually in October).)

<sup>2</sup>Value of products less cost of materials, supplies, fuel, electric energy and contract work. See Introduction, "Value Added by Manufacture." For the "Malt" industry, 1947 value added by manufacture does not equal the published value of products shipped less cost of materials etc., because an estimated value of production was used in the calculation in place of value of products shipped. Since the 1949-1952 estimates were derived from 1947 base totals, the same inequality may exist for these years.

<sup>3</sup>For 1929, 1947 and 1954 value of shipments, except in the case of "Distilled liquors, except brandy, in 1947 where they represent value of production; for all other years, value of production. Value figures do not include Federal or State excise taxes, except as noted in footnote 8. See Introduction, "Value of Shipments."

<sup>4</sup>Add standard footnote on "very small plants may have been misclassified."

<sup>5</sup>The figures for 1949-1953 represent estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period. Estimates with a standard error in excess of 15 percent generally have been omitted from this table.

<sup>6</sup>For "Bottled soft drinks" and "Malt liquors," the comparability of the figures for "All employees" and "Production workers" is affected by the fact that for 1939-1954 manufactures were asked to report the total number of employees on the payrolls, including truck drivers engaged in distribution, whereas in earlier years they were asked to report employees engaged, directly or indirectly in manufacturing activities.

<sup>7</sup>Data for establishments primarily engaged in making "near beer" are included in the figures for "Malt liquors" for 1899-1921 and 1947-1954 and in the figures for "Bottled soft drinks" for 1923-1939. In 1921 the output of the former industry consisted almost entirely of "near beer."

<sup>8</sup>Data for establishments primarily engaged in production of grape juice are included in the figures for 1899-1933 but not for later years.

<sup>9</sup>For "Malt liquors," the figures for 1933-1954 but not for earlier years, include data for establishments primarily engaged in the manufacture of malt extracts and syrup.

<sup>10</sup>Data for malt houses operated by breweries are included in the figures for "Malt liquors" for 1899-1933 and in the figures for "Malt" for 1935-1954.

<sup>11</sup>For "Malt liquors," the figures for 1899-1909 and 1919-1921 include Internal Revenue taxes, whereas the figures for other years do not include these taxes.

<sup>12</sup>1914 was the last normal pre-prohibition year covered by the census.

<sup>13</sup>The figures for 1914 do not include Internal Revenue taxes amounting to \$62.1 million.

<sup>14</sup>Value of products shipped and cost of materials, etc., are omitted for this industry because each of these measures contains extensive duplication. The duplication arises because the products of some establishments are used as materials by other establishments classified in the same industry. (See text on industry).

<sup>15</sup>The statistics previously published for 1939 which do not cover the bottling of unrectified liquors, are not sufficiently comparable to the statistics for other years to be shown in this table.

<sup>16</sup>Since the rectifying and blending of distilled liquors was first canvassed in 1935, the figures for prior years, which cover only the production of distilled liquors, are not sufficiently comparable to those for later years to be shown in this table.



## MANUFACTURES--INDUSTRY STATISTICS

Table 2.--GENERAL STATISTICS BY REGIONS AND STATES: 1954 AND 1947  
(For explanation of column captions see Introduction)

Industry, region, and State <sup>1</sup>	1954											1947	
	Establishments, number		All employees		Production workers			Value added by manufacture	Cost of materials, etc.	Value of shipments	Capital expenditures, new	All employees, number	Value added by manufacture
	Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
Bottled soft drinks (S.I.C. 2081), total.....	4,643	1,250	91,616	319,879	41,575	80,584	109,519	635,045	478,034	1,113,077	47,731	79,397	420,711
New England.....	346	76	4,967	16,470	2,438	4,638	6,330	30,049	23,087	53,136	1,804	5,141	24,551
New Hampshire.....	25	7	400	1,193	239	459	522	2,230	2,576	4,806	238	306	(D)
Vermont.....	14	1	123	320	62	115	158	579	425	1,005	31	142	598
Massachusetts.....	151	35	2,427	8,232	1,178	2,204	3,061	14,352	10,370	24,723	1,006	2,586	12,923
Connecticut.....	75	19	1,106	3,895	529	977	1,473	7,498	5,720	13,219	347	1,100	5,768
Middle Atlantic.....	764	174	15,077	62,712	6,991	13,110	24,075	116,716	76,381	193,096	8,719	13,017	68,593
New York.....	307	70	6,023	26,802	3,015	5,738	11,515	49,777	33,919	83,696	2,241	5,345	31,106
New Jersey.....	128	31	3,716	16,787	1,573	2,905	5,893	29,528	17,023	46,552	3,232	2,888	14,005
Pennsylvania.....	329	73	5,338	19,122	2,402	4,466	6,666	37,410	25,438	62,848	3,246	4,784	23,482
East North Central.....	813	210	17,017	65,059	8,091	15,572	23,351	127,464	87,055	214,519	9,542	14,555	77,686
Ohio.....	190	68	5,107	19,762	2,313	4,588	6,881	38,244	25,580	63,795	2,335	3,813	20,197
Illinois.....	223	52	4,554	18,697	2,076	4,081	6,409	36,719	25,431	62,150	3,143	4,194	23,290
Michigan.....	114	31	3,092	11,384	1,633	3,108	4,763	24,643	14,865	39,509	1,913	2,749	14,866
West North Central.....	468	98	7,526	26,351	3,543	6,835	9,453	51,808	33,910	85,713	3,741	6,887	36,369
Missouri.....	125	37	2,958	10,725	1,253	2,404	3,505	21,656	13,892	35,549	1,367	2,530	14,219
North Dakota.....	19	3	220	719	127	235	316	1,189	737	1,927	63	256	(D)
South Dakota.....	23	5	269	921	149	294	422	1,618	1,170	2,788	107	231	(D)
Nebraska.....	50	6	534	1,668	266	599	682	3,211	2,553	5,765	(D)	638	(D)
South Atlantic.....	788	288	18,684	57,279	7,914	16,567	17,351	115,488	105,800	221,290	11,125	15,292	80,896
Maryland.....	54	23	1,770	6,076	709	1,501	1,772	11,661	9,492	21,153	861	1,364	6,826
Virginia.....	108	55	3,000	9,492	1,232	2,805	2,802	17,588	17,210	34,802	2,658	2,207	11,827
Florida.....	145	40	2,832	8,584	1,330	2,629	2,760	17,320	16,103	33,423	1,581	2,115	10,371
East South Central.....	394	134	8,431	23,745	3,760	7,490	7,535	48,144	45,166	93,310	3,075	7,436	38,044
Alabama.....	108	37	2,259	5,751	1,028	1,887	1,793	11,445	11,669	23,114	1,010	2,131	10,123
Mississippi.....	94	30	1,771	4,507	851	1,689	1,539	9,314	8,958	18,273	559	1,539	7,432
West South Central.....	548	161	11,623	33,984	5,111	10,152	10,476	71,771	57,019	128,791	4,955	10,015	50,939
Arkansas.....	83	17	1,419	3,903	627	1,271	1,241	8,207	6,803	15,010	483	1,102	(D)
Texas.....	287	96	6,321	18,909	2,746	5,361	5,671	38,826	31,016	69,843	2,992	5,627	27,939
West.....	522	109	8,288	34,277	3,724	6,218	10,946	73,603	49,614	123,220	4,766	7,054	43,633
Montana.....	28	1	209	699	113	208	306	1,600	950	2,551	229	194	(D)
New Mexico.....	32	6	425	1,392	229	404	479	2,827	2,486	5,314	182	320	(D)
Washington.....	53	12	864	3,633	417	660	1,289	7,003	5,365	12,368	370	628	(D)
California.....	202	62	4,517	20,316	1,810	2,982	5,957	45,170	28,282	73,454	2,644	4,025	26,280
Beer and ale (S.I.C. 2082), total.....	301	266	81,346	420,546	53,698	105,923	261,497	1,100,741	756,311	1,857,053	114,534	82,534	807,177
New England.....	12	12	2,081	9,703	1,325	2,555	5,675	23,139	12,679	35,819	1,046	2,805	20,850
Massachusetts.....	8	8	1,133	5,056	621	1,212	2,514	12,306	6,450	18,756	(D)	1,946	14,536
Middle Atlantic.....	70	66	25,925	139,798	15,391	29,078	78,812	335,901	189,155	525,056	15,275	26,107	226,052
New York.....	26	26	12,763	69,991	6,910	12,200	36,055	160,471	79,729	240,201	5,592	13,109	108,232
New Jersey.....	10	10	7,081	39,340	4,279	8,184	23,102	100,042	62,688	162,731	4,370	5,862	55,219
Pennsylvania.....	34	30	6,081	30,467	4,202	8,694	19,655	75,386	46,737	122,124	5,313	7,136	62,601
East North Central.....	107	86	25,109	125,793	17,182	33,886	79,920	337,111	227,643	564,754	28,515	27,749	289,648
Ohio.....	20	15	4,274	21,451	2,735	5,573	12,665	61,016	33,390	94,406	4,788	6,199	53,919
Indiana.....	7	7	2,009	9,610	1,545	3,017	6,852	20,324	18,696	39,020	2,183	3,083	24,436
Illinois.....	22	20	3,678	17,347	2,540	4,999	11,404	42,410	33,662	76,072	3,744	5,479	56,985
Michigan.....	14	12	4,005	22,081	2,794	5,812	14,166	51,875	31,862	83,738	5,117	3,667	34,338
Wisconsin.....	44	32	11,143	55,304	7,567	14,483	34,831	161,485	110,031	271,516	12,682	9,321	119,970
West North Central.....	31	29	9,970	53,775	7,780	15,987	41,095	156,169	124,385	280,555	14,114	10,063	113,599
Minnesota.....	14	14	2,894	14,501	2,091	4,461	10,219	39,826	25,722	65,548	(D)	2,781	27,110
Iowa.....	3	3	87	368	52	114	190	617	438	1,056	27	242	(D)
Missouri.....	10	9	6,132	34,914	5,025	10,197	28,089	104,738	87,652	192,391	5,086	6,192	75,907
Nebraska.....	4	3	856	3,992	611	1,213	2,596	10,986	10,572	21,559	(D)	848	(D)
South Atlantic.....	21	19	3,307	14,012	1,889	3,746	7,327	25,458	28,688	54,147	3,189	(D)	(D)
Maryland.....	6	6	2,165	9,863	1,233	2,287	5,295	17,216	21,164	38,380	2,514	2,046	17,656
East South Central.....	6	6	2,083	10,468	1,469	2,958	6,501	31,414	14,790	46,204	1,190	(D)	(D)
West South Central.....	11	11	3,963	18,355	2,674	5,451	11,169	54,178	45,313	99,492	2,709	(D)	(D)
Louisiana.....	4	4	2,151	9,771	1,494	2,966	6,360	28,492	22,457	50,949	1,773	1,432	13,489
Mountain.....	17	14	1,418	6,682	990	2,031	4,270	23,101	20,457	43,559	2,047	1,417	13,253
Montana.....	6	5	257	1,133	194	384	774	3,823	2,848	6,672	214	302	2,481
Colorado.....	4	4	785	3,891	561	1,163	2,468	12,417	13,629	26,046	(D)	596	(D)
Pacific.....	26	23	7,486	41,958	4,994	10,228	26,725	114,268	93,198	207,467	46,446	5,747	67,665
California.....	17	15	5,782	32,667	3,844	7,996	21,119	87,207	69,584	156,792	43,570	4,144	48,401

See footnotes at end of table.



## BEVERAGES

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Table 2.—GENERAL STATISTICS BY REGIONS AND STATES: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Industry, region, and State <sup>1</sup>	1954										1947			
	Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)	
	Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)							
Malt (S.I.C. 2083), total.....	45	34	2,603	14,627	2,036	4,096	10,167	48,149	153,838	201,988	3,257	2,524	53,885	
Middle Atlantic.....	7	6	202	1,095	154	307	741	4,072	10,713	14,785	205	247	3,203	
East North Central.....	23	18	1,813	10,443	1,408	2,803	7,021	34,064	100,537	134,602	2,199	1,677	38,163	
Wisconsin.....	16	11	1,344	7,730	1,047	2,070	5,140	24,935	75,630	100,565	1,374	1,149	26,462	
West North Central.....	12	8	480	2,476	396	822	1,991	7,573	35,899	43,473	708	428	8,909	
Pacific.....	3	2	107	612	77	162	413	2,439	6,688	9,128	144	(D)	(D)	
Wines and brandy (S.I.C. 2084), total.....	262	66	5,724	23,258	4,328	8,393	13,749	96,749	}	(2)	(2)	2,216	7,697	95,015
Northeast.....	57	18	1,460	7,282	1,021	2,139	3,613	22,169				702	1,692	15,645
Pennsylvania.....	3	1	45	185	32	54	82	996				(D)	95	(D)
North Central.....	34	10	534	2,326	381	705	1,179	8,817				152	750	5,730
Michigan.....	10	7	256	932	171	257	390	2,759				97	210	1,055
South.....	16	3	224	777	164	314	339	2,728	}	(2)	(2)	77	410	3,293
Arkansas.....	6	...	18	30	15	24	24	140				3	34	(D)
West.....	155	35	3,503	12,872	2,761	5,233	8,617	63,035	}	(2)	(2)	1,283	4,845	70,347
California.....	143	34	3,359	12,357	2,648	5,050	8,284	61,604				1,209	4,650	68,926
Distilled liquor (S.I.C. 2085), total.....	133	97	21,505	89,367	17,117	32,892	65,504	356,741	354,571	711,313	8,863	30,422	472,357	
Northeast.....	37	23	4,542	18,817	3,335	6,541	12,040	61,000	63,446	124,447	1,438	6,358	74,656	
New York.....	4	2	764	3,198	435	855	1,697	9,528	5,536	15,064	372	348	(D)	
New Jersey.....	7	5	583	2,493	458	878	1,826	11,610	6,806	18,417	(D)	582	6,839	
Pennsylvania.....	11	7	2,467	9,853	1,911	3,745	6,824	32,244	39,580	71,825	(D)	4,677	59,047	
North Central.....	28	18	6,678	28,613	5,426	9,872	21,259	116,051	110,015	226,067	3,260	10,067	144,816	
Indiana.....	5	5	2,865	10,003	2,473	3,699	7,988	44,111	51,945	96,056	(D)	3,827	56,081	
Illinois.....	6	3	2,413	12,026	2,016	3,989	8,963	48,912	36,187	85,100	1,715	4,120	63,374	
Wisconsin.....	3	...	15	43	7	20	34	195	450	646	(D)	49	(D)	
South.....	56	51	9,857	40,344	7,993	15,845	31,043	162,879	173,602	336,482	4,108	13,269	241,921	
Pacific.....	12	5	426	1,593	363	633	1,161	16,809	7,507	24,317	55	(D)	(D)	

Note: Detailed figures may not add to the totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>General statistics for some producing States are not shown separately in the table (see INTRODUCTION "Confidentiality of Data for Individual Companies"). Such States are shown below with the number of establishments in each State for 1954 and, in parentheses, the number of employees or the employment-size range for that State for 1954:

S.I.C. 2081, Bottled Soft Drinks: New England—Maine, 44 (250-499); Rhode Island, 37 (500-999); East North Central—Indiana, 136 (2,500-4,999); Wisconsin, 150 (1,000-2,499); West North Central—Minnesota, 86 (1,383); Iowa, 87 (1,000-2,499); Kansas, 78 (500-999); South Atlantic—Delaware, 13 (100-249); District of Columbia, 8 (500-999); West Virginia, 81 (1,000-2,499); North Carolina, 144 (2,500-4,999); South Carolina, 87 (1,000-2,499); Georgia, 148 (2,500-4,999); East South Central—Kentucky, 93 (1,000-2,499); Tennessee, 99 (1,000-2,499); West South Central—Louisiana, 78 (2,500-4,999); Oklahoma, 100 (1,000-2,499); West—Idaho, 24 (250-499); Wyoming, 15 (100-249); Colorado, 56 (500-999); Arizona, 31 (250-499); Utah, 24 (250-499); Nevada, 9 (100-249); Oregon, 48 (250-499).

S.I.C. 2082, Beer and Ale: New England—Rhode Island, 2 (500-999); Connecticut, 2 (100-249); South Atlantic—Delaware, 1 (1-19); District of Columbia, 1 (100-249); Virginia, 3 (100-249); West Virginia, 1 (20-99); North Carolina, 1 (20-99); Georgia, 1 (20-99); Florida, 7 (500-999); East South Central—Kentucky, 5 (1,000-2,499); Tennessee, 1 (20-99); West South Central—Oklahoma, 1 (20-99); Texas, 6 (1,000-2,499); Mountain—Idaho, 2 (20-99); Wyoming, 1 (1-19); Arizona, 1 (100-249); Utah, 2 (100-249); Nevada, 1 (20-99); Pacific—Washington, 8 (1,000-2,499); Oregon, 1 (100-249).

S.I.C. 2083, Malt: Middle Atlantic—New York, 6 (100-249); New Jersey, 1 (20-99); East North Central—Ohio, 1 (20-99); Illinois, 5 (250-499); Michigan, 1 (20-99); West North Central—Minnesota, 11 (250-499); Missouri, 1 (20-99); Pacific—Washington, 1 (20-99); California, 2 (20-99).

S.I.C. 2084, Wines and Brandy: Northeast—Massachusetts, 1 (20-99); New York, 43 (1,000-2,499); New Jersey, 10 (250-499); North Central—Ohio, 18 (100-249); Indiana, 1 (1-19); Illinois, 1 (20-99); Wisconsin, 1 (1-19); Missouri, 3 (20-99); South—Maryland, 1 (100-249); Virginia, 2 (20-99); North Carolina, 1 (1-19); South Carolina, 1 (1-19); Georgia, 1 (20-99); Florida, 2 (1-19); Oklahoma, 1 (1-19); Texas, 1 (1-19); West—Colorado, 1 (1-19); Washington, 8 (100-249); Oregon, 3 (20-99).

S.I.C. 2085, Distilled Liquors: Northeast—Maine, 1 (1-19); Massachusetts, 7 (500-999); Connecticut, 7 (100-249); North Central—Ohio, 5 (500-999); Michigan, 5 (100-249); Iowa, 1 (100-249); Missouri, 2 (20-99); Kansas, 1 (20-99); South—Maryland, 8 (1,000-2,499); Virginia, 1 (20-99); Kentucky, 45 (7,955); Tennessee, 1 (250-499); Louisiana, 1 (1-19); Pacific—Washington, 1 (1-19); California, 11 (250-499).

<sup>2</sup>Omitted because of duplication in cost of materials and value of shipments (see introductory text for industry).

## MANUFACTURES--INDUSTRY STATISTICS

Table 3.—DETAILED STATISTICS FOR THE UNITED STATES: 1954

(For explanation of line captions see Introduction)

Item	Bottled soft drinks (S.I.C. 2081)	Beer and ale (S.I.C. 2082)	Malt (S.I.C. 2083)	Wines and brandy (S.I.C. 2084)	Distilled liquor (S.I.C. 2085)
Primary product specialization ratio <sup>1</sup> .....	98	100	100	( <sup>2</sup> )	99
Coverage ratio <sup>3</sup> .....	99	100	100	96	100
Number of establishments, total.....	4,643	301	45	262	133
With 1-19 employees.....	3,393	35	11	196	36
With 20-99 employees.....	1,129	107	29	52	50
With 100 employees and over.....	121	159	5	14	47
All employees:					
Number (average for year).....	91,616	81,346	2,603	5,724	21,505
Payroll.....\$1,000..	319,879	420,546	14,627	23,258	89,367
Production workers:					
Number (average for year).....	41,575	53,698	2,036	4,328	17,117
Man-hours.....1,000..	80,584	105,923	4,096	8,393	32,892
Wages.....\$1,000..	109,519	261,497	10,167	13,749	65,504
Value added by manufacture.....do..	635,045	1,100,741	48,149	96,749	356,741
Cost of materials, etc.....do..	478,034	756,311	153,838	( <sup>2</sup> )	354,571
Value of shipments.....do..	1,113,077	1,857,053	201,988	( <sup>2</sup> )	711,313
Value added by resales.....do..	14,681	3,923	633	1,933	9,162
Cost of products bought and resold.....do..	61,496	9,792	993	5,397	34,168
Sales of products bought and resold.....do..	76,177	13,716	1,626	7,330	43,330
Total inventories, beginning of year.....do..	73,760	156,404	78,143	55,977	677,076
Total inventories, end of year.....do..	75,574	145,288	73,236	57,635	638,351
Capital expenditures, new.....do..	47,731	114,534	3,257	2,216	8,863
Total employment, by month:					
January.....	(NA)	(NA)	(NA)	5,583	20,789
February.....	(NA)	(NA)	(NA)	5,459	20,471
March.....	86,906	78,511	2,630	5,623	20,817
April.....	(NA)	(NA)	(NA)	5,268	20,930
May.....	92,192	82,378	2,642	5,322	21,323
June.....	(NA)	(NA)	(NA)	5,319	21,249
July.....	(NA)	(NA)	(NA)	5,461	19,692
August.....	99,872	86,674	2,521	5,334	18,973
September.....	(NA)	(NA)	(NA)	6,146	20,686
October.....	(NA)	(NA)	(NA)	6,784	24,838
November.....	87,494	77,819	2,618	6,426	25,353
December.....	(NA)	(NA)	(NA)	5,963	22,939
Cost of materials, fuel, electricity and contract work, total.....\$1,000..	478,034	756,311	153,838	( <sup>2</sup> )	354,571
Materials, parts, containers, and supplies consumed.....do..	462,798	736,388	148,399	( <sup>2</sup> )	346,343
Fuels consumed, total.....do..	8,139	12,627	3,638	741	5,760
Bituminous coal and anthracite:					
Quantity.....1,000 short tons..	96	765	104	8	684
Value.....\$1,000..	1,126	5,314	1,000 <sup>4</sup>	84	3,826
Coke:					
Quantity.....1,000 short tons..	1	( <sup>4</sup> )	8	...	( <sup>4</sup> )
Value.....\$1,000..	19	44	125	...	( <sup>4</sup> )
Fuel oil:					
Quantity.....1,000 barrels..	829	1,599	156	106	390
Value.....\$1,000..	2,689	4,455	522	339	958
Gas:					
Quantity.....million cubic feet..	4,856	8,760	3,377	1,049	2,933
Value.....\$1,000..	1,596	2,366	1,804	275	834
Other fuels:					
Value.....do..	2,709	448	187	43	138
Electric energy:					
Purchased:					
Quantity.....million kwh..	257	583	122	49	136
Cost.....\$1,000..	4,946	7,062	1,490	789	1,931
Generated.....million kwh..	72	233	41	...	40
Sold:					
Quantity.....do..	...	9	...	...	2
Value.....\$1,000..	...	93	...	...	4
Cost of contract work.....do..	2,151	234	311	455	537
Manufacturers' inventories:					
Beginning of year, total.....do..	73,760	156,404	78,143	55,977	677,076
Finished products.....do..	15,295	23,418	36,392	39,077	572,559
Work-in-process.....do..	1,807	26,450	4,293	9,925	32,453
Materials, supplies, fuel, etc.....do..	56,658	106,535	37,458	6,974	72,063
End of year, total.....do..	75,574	145,288	73,236	57,635	638,351
Finished products.....do..	16,726	25,659	37,966	40,911	554,411
Work-in-process.....do..	1,803	25,685	4,249	9,812	23,101
Materials, supplies, fuel, etc.....do..	57,044	93,943	31,020	6,910	60,838
Expenditures for plant and equipment, total.....do..	50,447	116,410	3,482	2,513	10,036
Capital expenditures, new.....do..	47,731	114,534	3,257	2,216	8,863
New structures and additions to plant.....do..	13,055	45,996	1,414	( <sup>3</sup> )	2,687
New machinery and equipment.....do..	34,675	68,537	1,843	1,745	6,176
Expenditures for used plant and equipment.....do..	2,576	1,789	( <sup>3</sup> )	( <sup>3</sup> )	1,147
Horsepower rating of power equipment at end of 1954:					
Horsepower of prime movers and electric motors driven by purchased energy, total.....1,000 hp..	148	446	83	38	134,226
Engines, etc. driving electric generators.....do..	3	122	14	( <sup>6</sup> )	21,640
Engines, etc. not driving electric generators.....do..	5	52	2	2	18,807
Electric motors driven by purchased energy.....do..	140	272	67	36	93,779
Electric motors driven by energy generated at the establishment.....do..	( <sup>6</sup> )	64,034	19	...	23,715

Note: Detailed figures may not add to the totals because of independent rounding. NA Not available. xxx Not applicable. <sup>1</sup>The specialization ratio compares the given industry's shipments of its primary products to its total shipments of all products. (The primary products are listed in Tables 5B and 6A; the first 4-digits of the product code represent the industry code to which the product is primary.) <sup>2</sup>Not shown because of significant duplication in value of shipments and cost of material within the industry. (See introductory text.) <sup>3</sup>The coverage ratio measures the extent to which the total shipments of products primary to the given industry are shipped by establishments classified in that industry. <sup>4</sup>Less than 500 tons. <sup>5</sup>Less than \$500 thousand. <sup>6</sup>Less than 500 hp.

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Table 4.--SELECTED STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR THE UNITED STATES: 1954

(Value figures in thousands of dollars. For explanation of line captions see Introduction. Data which cannot be shown without disclosing information for individual companies have been combined with figures for other size classes. A (D) appears in the column where the figure has been omitted and the combined figure is underlined and shown in the size-class to the left)

Ind. code	Industry and item	Total, all establishments	Establishments with an average of--									
			1-4 employees	5-9 employees	10-19 employees	20-49 employees	50-99 employees	100-249 employees	250-499 employees	500-999 employees	1,000-2,499 employees	2,500 employees and over
2081	Bottled soft drinks:											
	Number of establishments...	4,643	1,213	1,036	1,144	913	216	102	18	...	1	...
	Number of employees.....	91,616	3,362	7,573	16,325	27,521	14,462	14,367	8,003	...	(D)	...
	Value added by manufacture.	635,045	19,197	41,904	97,459	183,589	109,673	119,944	<u>63,277</u>	...	(D)	...
2082	Beer and ale:											
	Number of establishments...	301	12	6	17	58	49	71	49	26	9	4
	Number of employees.....	81,346	30	42	258	1,943	3,458	11,206	18,230	18,257	14,244	13,675
	Value added by manufacture.	1,100,741	285	226	1,421	16,230	33,647	121,734	244,849	252,640	208,197	221,510
2083	Malt:											
	Number of establishments...	45	...	2	9	18	11	3	2	...	...	...
	Number of Employees.....	2,603	...	157	(D)	599	811	<u>1,035</u>	(D)	...	...	...
	Value added by manufacture.	48,149	...	<u>1,443</u>	(D)	9,424	18,093	<u>19,187</u>	(D)	...	...	...
2084	Wines and brandy:											
	Number of establishments...	262	111	47	38	36	16	12	2	...	...	...
	Number of employees.....	5,724	287	344	541	1,067	1,138	<u>2,344</u>	(D)	...	...	...
	Value added by manufacture.	96,749	3,393	4,413	7,036	13,235	14,307	<u>54,363</u>	(D)	...	...	...
2085	Distilled liquor:											
	Number of establishments...	133	15	8	13	29	21	22	12	10	3	...
	Number of employees.....	21,505	46	55	212	936	1,408	3,354	4,322	6,341	4,827	...
	Value added by manufacture.	356,741	812	1,429	1,463	11,492	10,744	57,570	78,391	117,117	77,719	...

Note: Detailed figures do not add to the totals because of independent rounding.



## MANUFACTURES--INDUSTRY STATISTICS

Table 5B.—INDUSTRY-PRODUCT ANALYSIS—SHIPMENTS BY PRODUCT CLASS AND INDUSTRY, FOR THE UNITED STATES: 1954

(In thousands of dollars. The first column shows the total value of shipments of the specified industry divided among: (a) products classified in the industry (primary products), (b) products classified in other industries (secondary products) and (c) miscellaneous receipts. The value of shipments of the primary products of the specified industry reported by establishments not classified in that industry is shown under the caption "Other Industries". Industries accounting for significant amounts of the primary products listed are shown in separate columns provided that the figures for individual companies are not thereby disclosed. The last column shows the total value of shipments of the primary products of the industry by all manufacturing industries)

Prod. class code	Bottled soft drinks industry	Bottled soft drinks (S.I.C. 2081)	Other industries	All industries	Prod. class code	Malt industry	Malt (S.I.C. 2083)	Other industries	All industries	
	Total industry shipments..	1,113,077	xxx	xxx		Total industry shipments..	201,988	xxx	xxx	
						Primary products.....	193,056	( <sup>2</sup> )	193,120	
					20831	Malt.....	180,063		180,063	
					20832	Malt byproducts.....	12,993	( <sup>2</sup> )	13,057	
20810	Bottled soft drinks and carbonated waters.....	1,086,949	9,116	1,096,065		Other secondary products....	134	xxx	xxx	
						Miscellaneous receipts.....	8,798	xxx	xxx	
	Secondary products.....	18,024	xxx	xxx		Nonmanufacturing activities <sup>1</sup> .....	8,132	xxx	xxx	
						Other.....	666	xxx	xxx	
20953	Flavoring sirups, soft drink.....	5,946	xxx	xxx	Prod. class code	Wines and brandy industry	Wines and brandy (S.I.C. 2084)	Distilled liquor (S.I.C. 2085)	Other industries	All industries
20954	Other flavoring agents, except chocolate sirup...	4,084	xxx	xxx						
	Other secondary products..	7,994	xxx	xxx		Total industry shipments..	( <sup>3</sup> )	xxx	xxx	xxx
	Miscellaneous receipts.....	8,104	xxx	xxx	20840	Wines and brandy.....	167,896	6,828	672	175,396
	Nonmanufacturing activities <sup>1</sup> .....	1,598	xxx	xxx		Secondary products.....	2,058	xxx	xxx	xxx
						Miscellaneous receipts.....	2,715	xxx	xxx	xxx
						Contract and commission work.....	2,481	xxx	xxx	xxx
						Other.....	234	xxx	xxx	xxx
Prod. class code	Beer and ale industry	Beer and ale (S.I.C. 2082)	Other industries	All industries	Prod. class code	Distilled liquor industry	Distilled liquor (S.I.C. 2085)	Other industries	All industries	
	Total industry shipments..	1,857,053	xxx	xxx		Total industry shipments..	711,313	xxx	xxx	
	Primary products.....	1,850,719	4,106	1,854,825		Primary products.....	682,808	1,521	684,329	
					20851	Distilled liquors, except brandy.....	(D)	(D)	123,398	
20821	Beer, ale, and other malt liquors.....	1,832,269	514	1,832,783	20852	Distillers' grains.....	(D)	(D)	19,733	
20822	Brewers' grains and other brewery products...	15,684	3,447	19,131	20853	Bottled liquors.....	(D)	(D)	540,231	
20820	Brewery products, not specified by kind.....	2,766	145	2,911	20850	Distilled liquor not specified by kind.....	(D)	(D)	967	
	Secondary products.....	4,339	xxx	xxx		Secondary products.....	7,738	xxx	xxx	
					20840	Wines and brandy.....	6,828	xxx	xxx	
						Other secondary products..	910	xxx	xxx	
	Miscellaneous receipts.....	1,995	xxx	xxx		Miscellaneous receipts.....	20,767	xxx	xxx	
						Contract and commission work.....	17,183	xxx	xxx	
						Nonmanufacturing activities <sup>1</sup> .....	2,020	xxx	xxx	
						Other miscellaneous receipts.....	1,564	xxx	xxx	

xxx Not applicable.

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>Includes shipments of products sold by, but not manufactured in, the reporting establishment, and not included in "resales" (Table 3).

<sup>2</sup>Less than \$100 thousand.

<sup>3</sup>Not shown because of significant duplication (see introductory text).

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Table 5A.—INDUSTRY-PRODUCT ANALYSIS—SUMMARY OF INDUSTRY AND PRIMARY PRODUCT SHIPMENTS, SPECIALIZATION RATIOS AND COVERAGE RATIOS FOR THE UNITED STATES: 1954 AND 1947

Industry code	Industry and census year	Value of shipments					Value of primary products shipped			
		Total	Primary products	Secondary products	Miscellaneous receipts	Primary product specialization ratio <sup>1</sup>	Total (made in all industries)	Made in this industry	Made in other industries	Coverage ratio <sup>2</sup>
		(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	Col. B Col. B+C (Percent)	(\$1,000)	(\$1,000)	(\$1,000)	Col. G Col. F (Percent)
		(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)
2081	Bottled soft drinks.....1954..	1,113,077	1,086,949	18,024	8,104	98	1,096,065	1,086,949	9,116	99
	1947..	748,196	741,062	4,355	2,779	99	750,538	741,062	9,476	99
2082	Beer and ale.....1954..	1,857,053	1,850,719	4,339	1,995	100	1,854,825	1,850,719	4,106	100
	1947..	1,316,085	1,310,938	4,969	178	100	1,319,560	1,310,938	8,622	99
2083	Malt.....1954..	201,988	193,056	134	8,798	100	193,120	193,056	64	100
	1947..	256,230	255,300	...	930	100	256,106	255,300	806	100
2084	Wines and brandy.....1954..	( <sup>3</sup> )	167,896	2,058	2,715	( <sup>3</sup> )	175,396	167,896	7,500	<sup>4</sup> 96
	1947..	( <sup>3</sup> )	166,977	441	(D)	( <sup>3</sup> )	167,528	166,977	551	<sup>4</sup> 100
2085	Distilled liquor.....1954..	711,313	682,808	7,738	20,767	99	684,329	682,808	1,521	100
	1947..	870,235	861,476	7,567	1,192	99	868,320	861,476	6,844	99

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>The specialization ratio compares the given industry's shipments of its primary products to its total shipments of all products. (The primary products are listed in Tables 5A and 6A; the first 4-digits of the product code represent the industry code to which the product is primary.)<sup>2</sup>The coverage ratio measures the extent to which the products primary to the given industry are shipped by establishments classified in that industry.<sup>3</sup>The value of shipments is not shown because of significant duplication of such shipments within the industry. (See introductory text.) The specialization ratios on an unduplicated basis are estimated as more than 90 percent.<sup>4</sup>Percentages are based on figures containing significant duplication; however, coverage ratios based on estimated unduplicated totals would approximate these percentages.

Table 6A.--QUANTITY AND VALUE OF PRODUCTS SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, FOR THE UNITED STATES: 1954 AND 1947

Product code <sup>1</sup>	Product	Unit of quantity	Total shipments including interplant transfers			
			1954		1947	
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
2081---	Soft drinks, bottled, canned, and in bulk, total.....	Thousand cases <sup>2</sup> .....	1,097,100	1,096,065	911,507	750,538
	Bottled soft drinks, all sizes.....	...do.....	1,076,045	1,067,407	900,780	747,573
	Still:					
20810-0	Orange.....	...do.....	10,982	12,754	11,489	12,421
20810-1	Other still.....	...do.....	7,764	8,191	6,136	5,745
	Carbonated:					
20810-2	Drinks containing kola extract.....	...do.....	621,018	576,790	512,925	415,350
20810-3	Orange.....	...do.....	47,143	46,777	44,305	35,309
20810-4	Lemon, lime, and lemon and lime combination.....	...do.....	90,016	93,615	64,175	50,592
20810-5	Root beer and sarsaparilla.....	...do.....	35,066	37,476	34,900	29,260
20810-6	Ginger ale.....	...do.....	42,712	60,087	36,494	37,283
20810-7	Grape.....	...do.....	21,813	20,885	26,650	21,176
20810-8	Carbonated water and club soda.....	...do.....	19,323	25,824	19,754	19,685
20810-9	Other carbonated flavors, including dietetics.....	...do.....	76,407	82,217	56,697	45,881
20810-X	Flavor not reported.....	...do <sup>3</sup> .....	103,801	102,791	87,255	74,866
208107X	Canned soft drinks, all flavors.....	Thousand cases of 24	17,744	27,209	(NA)	(NA)
208108X	Soft drinks in bulk (barrels, tanks, etc.).....	Gallons.....	3,311	1,449	10,727	2,965
208101-	Bottled soft drinks, cases of 24, 6 and 7 oz. bottles..	Thousands.....	590,303	543,329	536,295	
	Still:					
2081010	Orange.....	...do.....	5,685	5,390	6,372	
2081011	Other still.....	...do.....	5,398	5,280	4,188	
	Carbonated:					
2081012	Drinks containing kola extract.....	...do.....	423,591	383,459	367,954	
2081013	Orange.....	...do.....	13,309	12,278	22,301	
2081014	Lemon, lime, and lemon and lime combination.....	...do.....	74,963	72,796	53,777	
2081015	Root beer and sarsaparilla.....	...do.....	5,191	4,910	6,368	
2081016	Ginger ale.....	...do.....	11,837	12,414	4,506	
2081017	Grape.....	...do.....	7,339	6,667	19,850	
2081018	Carbonated water and club soda.....	...do.....	6,700	6,878	3,154	
2081019	Other carbonated flavors, including dietetics.....	...do.....	36,290	33,257	33,471	
208101X	Flavor not reported.....	...do.....	xxx	...	14,354	
	Bottled soft drinks, cases of 24, 8, 9, and 10 oz. bottles, all flavors.....	...do.....	156,909	143,002	34,861	
	Still:					
2081020	Orange.....	...do.....	2,104	2,186	943	
2081021	Other still.....	...do.....	909	911	335	
	Carbonated:					
2081022	Drinks containing kola extract.....	...do.....	87,817	74,692	3,967	
2081023	Orange.....	...do.....	22,686	21,275	9,943	
2081024	Lemon, lime, and lemon and lime combination.....	...do.....	5,042	4,691	1,651	
2081025	Root beer and sarsaparilla.....	...do.....	10,578	10,205	4,859	
2081026	Ginger ale.....	...do.....	4,918	7,528	2,414	
2081027	Grape.....	...do.....	9,275	8,269	2,668	
2081028	Carbonated water and club soda.....	...do.....	838	960	491	
2081029	Other carbonated flavors, including dietetics.....	...do.....	12,742	12,285	5,568	
208102X	Flavor not reported.....	...do.....	xxx	xxx	2,022	
	Bottled soft drinks, cases of 24, 12 and 16 oz. bottles, all flavors.....	...do.....	145,856	159,609	172,560	
	Still:					
2081030	Orange.....	...do.....	452	469	313	
2081031	Other still.....	...do.....	547	551	474	
	Carbonated:					
2081032	Drinks containing kola extract.....	...do.....	104,710	112,487	132,054	
2081033	Orange.....	...do.....	5,638	5,753	6,676	
2081034	Lemon, lime, and lemon and lime combination.....	...do.....	1,878	2,194	1,288	
2081035	Root beer and sarsaparilla.....	...do.....	12,727	13,460	14,768	
2081036	Ginger ale.....	...do.....	2,094	3,280	2,144	
2081037	Grape.....	...do.....	2,876	2,898	2,345	
2081038	Carbonated water and club soda.....	...do.....	2,036	2,957	2,349	
2081039	Other carbonated flavors, including dietetics.....	...do.....	12,898	15,560	5,797	
208103X	Flavor not reported.....	...do.....	xxx	xxx	4,352	
	Bottled soft drinks, cases of 12, 20-24 oz. bottles, all flavors.....	...do.....	12,090	16,563	11,907	
	Still:					
2081040	Orange.....	...do.....	502	437	55	
2081041	Other still.....	...do.....	76	117	24	
	Carbonated:					
2081042	Drinks containing kola extract.....	...do.....	1,613	1,666	879	
2081043	Orange.....	...do.....	786	1,072	406	
2081044	Lemon, lime, and lemon and lime combination.....	...do.....	1,779	2,760	1,835	
2081045	Root beer and sarsaparilla.....	...do.....	1,524	1,961	2,263	
2081046	Ginger ale.....	...do.....	2,697	5,073	3,091	
2081047	Grape.....	...do.....	265	291	83	
2081048	Carbonated water and club soda.....	...do.....	557	684	1,410	
2081049	Other carbonated flavors, including dietetics.....	...do.....	2,291	2,502	1,376	
208104X	Flavor not reported.....	...do.....	xxx	xxx	485	

See footnotes at end of table.



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Table 6A.—QUANTITY AND VALUE OF PRODUCTS SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, FOR THE UNITED STATES: 1954 AND 1947--Continued

Product code	Product	Unit of quantity	Total shipments including interplant transfers			
			1954		1947	
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
2081---	Soft drinks, bottled, canned, and in bulk--Continued					
	Bottled soft drinks, cases of 12, 28-32 oz. bottles, all flavors.....	Thousands.....	67,086	102,113	477,784	
	Still:					
2081050	Orange.....	do.....	2,239	4,272	53,078	
2081051	Other still.....	do.....	834	1,332	449	
	Carbonated:					
2081052	Drinks containing kola extract.....	do.....	3,287	4,486	4,622	
2081053	Orange.....	do.....	4,724	6,399	4,619	
2081054	Lemon, lime, and lemon and lime combination.....	do.....	6,354	11,174	5,368	
2081055	Root beer and sarsaparilla.....	do.....	5,046	6,940	6,568	
2081056	Ginger ale.....	do.....	21,166	31,792	24,260	
2081057	Grape.....	do.....	2,058	2,760	1,704	
2081058	Carbonated water and club soda.....	do.....	9,192	14,345	11,795	
2081059	Other carbonated flavors, including dietetics.....	do.....	12,186	18,613	10,028	
208105X	Flavor not reported.....	do.....	xxx	xxx	5,293	
208106X	Bottled soft drinks, larger than 32 oz. bottles, all flavors.....		(NA)	1,430	(NA)	
208100X	Bottled soft drinks, container and flavor not reported.	Thousand cases <sup>3</sup> .....	102,178	101,361	667,373	
			Total shipments including interplant transfers			
		Unit of quantity	1954		1947	
			Quantity	Value excluding excise taxes (\$1,000)	Quantity	Value excluding excise taxes (\$1,000)
						Excise taxes (Federal and State) (\$1,000)
2082---	Beer and ale, total.....		xxx	1,854,825	xxx	1,319,560
20821	Beer, ale, and other malt liquors.....		xxx	1,832,783	xxx	1,290,928
	Finished fermented malt liquors:					
	Case goods, cans:					
2082111	Beer.....	Thousand bbls.	19,445	564,384	6,497	136,495
2082113	Ale.....	do.....	546	15,844	506	11,607
2082115	Other (porter, stout, etc.).....	do.....	76	1,331	(NA)	(NA)
	Case goods, bottles:					
	Beer:					
	Returnable bottles:					
2082121	12 oz. bottles.....	do.....	28,663	620,231	47,144	778,212
2082125	Other.....	do.....	9,274	210,090		
	Nonreturnable bottles:					
2082131	12 oz. bottles.....	do.....	2,764	71,665	47,144	778,212
2082135	Other.....	do.....	2,102	49,157		
2082141	Ale.....	do.....	1,963	44,564	4,660	78,778
2082151	Other (porter, stout, etc.).....	do.....	134	3,326	53	827
	Barrels and kegs:					
2082161	Beer.....	do.....	18,315	235,729	25,515	257,251
2082163	Ale.....	do.....	894	11,881	2,606	26,784
2082165	Other (porter, stout, etc.).....	do.....	11	160	10	130
2082198	Other malt liquors.....	do.....	xxx	xxx	45	844
2082100	Beer, ale, and other malt liquors, not specified by kind.....		xxx	4,421	1,793	xxx
20822	Brewers' grains and other brewery products.....		xxx	19,131	xxx	28,632
2082211	Malt extract.....	Thousand lbs..	43,879	5,573	66,835	7,046
	Brewers' spent grains sold:					
2082251	Dry.....	Thousand tons.	198	7,873	269	14,834
2082255	Wet.....	do.....	564	5,525	(NA)	6,413
2082298	Other brewery products.....		xxx	xxx	xxx	339
2082200	Brewers' grains and other brewery products, not specified by kind.....		xxx	160	xxx	xxx
2082000	Malt liquors, not specified by kind.....		xxx	2,911	xxx	xxx
2083---	Malt, house products.....		xxx	193,120	xxx	256,106
20831	Malt.....	Thousand lbs..	3,009,070	180,063	73,686,610	7238,877
2083111	Barley malt.....	do.....	3,005,008	179,886	xxx	(NA)
2083151	Rye and wheat malt.....	do.....	4,062	177		
2083211	Malt sprouts and other byproducts.....	do.....	603,267	13,057	xxx	637,419

See footnotes at end of table.

## MANUFACTURES--INDUSTRY STATISTICS

Table 6A.—QUANTITY AND VALUE OF PRODUCTS SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, FOR THE UNITED STATES: 1954 AND 1947--Continued

Product code	Product	Net shipments including interplant transfers		Purchases (includ- ing transfers from other plants of the same company		Total shipments including interplant transfers					
		1954						1947			
		Quantity	Value excluding excise taxes	Quantity	Value excluding excise taxes	Quantity	Value excluding excise taxes	Excise taxes (Federal and State)	Quantity	Value excluding excise taxes	Excise taxes (Federal and State)
2084---	Wines and brandy, total.....	(1,000 wine gallon) xxx	(\$1,000) 151,473	(1,000 wine gallon) xxx	(\$1,000) 23,923	(1,000 wine gallon) xxx	(\$1,000) 175,396	(\$1,000) xxx	(1,000 wine gallon) xxx	(\$1,000) 167,528	(\$1,000) xxx
	Still table wine, 14% and under; including light sweet wines:										
2084011	Light sweet grape wines.....	17,110	28,434	1,402	757	18,512	29,191	2,795	} 36,864	33,687	2,782
2084013	Other grape wines.....	11,409	13,873	12,789	5,077	24,198	18,950	3,369			
2084015	Fruit and berry wines.....	2,542	4,229	675	598	3,217	4,827	528	1,187	1,739	139
	Still dessert wines, over 14%:										
2084021	Grape wines, all types.....	62,516	72,835	26,622	15,981	89,138	88,816	35,294	} 122,760	105,964	34,261
2084025	Fruit and berry wines.....	1,137	1,606	108	95	1,245	1,701	556			
2084031	Sparkling wines, natural and carbonated.....	1,508	8,495	36	58	1,544	8,553	4,586	1,112	6,651	3,074
		(1,000 tax gallon)		(1,000 tax gallon)		(1,000 tax gallon)			(1,000 tax gallon)		
2084041	Vermouth.....	2,857	4,744	216	162	3,073	4,906	1,571	1,444	2,680	} 792
2084061	Beverage brandy.....	1,330	6,670	468	578	1,798	7,248	11,012	1,596	5,601	
		(1,000 wine gallon)		(1,000 wine gallon)		(1,000 wine gallon)			(1,000 wine gallon)		} 3,840
2084071	Neutral fruit spirits and neutral brandy.....	1,589	2,274	533	552	2,122	2,826	1,063	3,912	3,913	
2084000	Wines and brandy, not specified by kind.....	xxx	8,313	xxx	65	xxx	8,378	263	(NA)	7,293	449
		Total shipments including interplant transfers									
		1954			1947						
		Unit of quantity		Quantity	Value excluding excise taxes	Excise taxes (Federal and State)	Quantity	Value excluding excise taxes	Excise taxes (Federal and State)		
					(\$1,000)	(\$1,000)		(\$1,000)	(\$1,000)		
2085---	Distilled liquors, total.....			xxx	684,329	xxx	xxx	868,320	xxx		
20851	Distilled liquors, except brandy.....			xxx	123,398	xxx	245,363	190,401	xxx		
		Products of distilleries and industrial alcohol plants:									
		Whiskey (raw):									
2035111	Bourbon.....	Thousand proof gal..		90,176	80,862	xxx	100,968	104,320	xxx		
2085115	Rye.....	do.		8,059	6,814	xxx	21,434	25,355	xxx		
2085119	Other.....	do.		6,162	3,291	xxx	15,594	9,077	xxx		
2085121	Gin.....	do.		16,540	6,868	xxx	5,468	2,701	xxx		
2085131	Spirits (except fruit).....	do.		52,350	21,047	xxx	99,639	47,490	xxx		
2085149	Other distilled liquors.....	do.		8,116	3,700	xxx	2,260	1,458	xxx		
2085100	Distilled liquors, except brandy, not specified by kind.....			xxx	816	xxx	xxx	xxx	xxx		
20852	Distillers' grains.....			xxx	19,733	xxx	399	23,536	xxx		
2085211	Distillers' dried grains, dark and light.....	Ton.....		204	12,138	xxx	} 399	23,536	xxx		
2085251	Distillers' dried solubles.....	do.....		74	5,199	xxx					
2085298	Distillers' grains, n.e.c.....	xxx		2,396	xxx						
20853	Bottled liquors.....			xxx	540,231	370,838	171,074	654,383	1,377,200		
		Rectified products:									
		Whiskey:									
2085311	Blends of whiskey 4 years old or more.....	Thousand wine gal...		2,678	10,370	24,652	} 4,432	17,329	35,896		
2085313	Other blends of whiskies.....	do.....		192	757	1,722					
2085315	Blends with neutral spirits.....	do.....		78,233	250,356	731,778					
2085319	Other whiskey.....	do.....		765	4,431	3,101					

See footnotes at end of table.

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Table 6A--QUANTITY AND VALUE OF PRODUCTS SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, FOR THE UNITED STATES: 1954 AND 1947--Continued

Product code	Product	Unit of quantity	Total shipments including interplant transfers					
			1954			1947		
			Quantity	Value excluding excise taxes (\$1,000)	Excise taxes (Federal and State) (\$1,000)	Quantity	Value excluding excise taxes (\$1,000)	Excise taxes (Federal and State) (\$1,000)
2085----	Distilled liquors--Continued							
20853	Bottled liquors--Continued							
	Rectified products--Continued							
2085321	Gin.....	Thousand wine gal..	1,502	2,757	13,131	8,313	17,488	68,498
2085331	Cordials, liqueurs, cocktails, and similar compounds.....	do.....	5,158	19,819	36,812	2,974	13,885	17,990
2085335	Other rectified products.....	do.....	2,432	5,657	18,147	1,014	3,882	7,333
	Unrectified products:							
2085351	Whiskey.....	do.....	27,543	136,253	251,586	6,537	44,718	50,550
2085355	Gin.....	do.....	17,029	36,293	163,498	5,197	8,464	42,499
2085359	Other unrectified products.....	do.....	1,612	5,433	13,389	xxx	xxx	xxx
	Bottled in bond:							
	Whiskey:							
2085361	For domestic use.....	Thousand proof gal.	10,009	62,371	108,034			
2085365	For export.....	do.....	466	3,394	3,394	8,839	100,162	69,478
2085381	Other.....	do.....	9	101	101			
2085300	Bottled liquors, not specified by kind.....		xxx	2,239	1,493	(NA)	5,662	(NA)
2085000	Distilled liquors, not specified by kind.....		xxx	967	xxx	xxx	xxx	xxx

xxx Not applicable.

NA Not available.

<sup>1</sup>In the product code numbering system used to identify soft drinks, the sixth digit identifies the type and size of container and the seventh digit identifies the flavor. (X) indicates that the container type and size or the flavor was not reported and (-) indicates a summation of the container types and sizes or flavors as specified in the table stub titles.

<sup>2</sup>Includes a computed number of cases for soft drinks sold in bulk (product code 20810EX) of 2,207 cases, arrived at by assuming 1.5 gallons equal to one case.

<sup>3</sup>Number of cases estimated by applying average unit price per case of all bottle sizes and flavors reported to the value reported.

<sup>4</sup>Includes a small number of 64 oz. bottles sold 6 to a case.

<sup>5</sup>Includes an indeterminate amount of non-dairy drinks other than orange.

<sup>6</sup>Includes small quantities reported by flavor but not by size of bottle. The cases and values reported by flavor are included under the flavor reported on the lines showing all bottle sizes by flavor (product codes 20810-0 to 20810-9).

<sup>7</sup>Over 9% barley malt; rye and wheat malt combined to avoid disclosure of figures for individual companies.

<sup>8</sup>Both the 1954 and 1947 figures contain extensive duplication arising because the products of some establishments are used as materials in other establishments in the same industry. The extent of duplication for 1954 is indicated in the columns showing the quantity and value of purchaser and transfers from other establishments of the same company.

<sup>9</sup>Includes a small amount of distillers grains, not specified by kind.



## MANUFACTURES--INDUSTRY STATISTICS

Table 6B.—VALUE OF PRODUCT CLASSES SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, BY DIVISIONS AND STATES FOR 1954,  
AND UNITED STATES TOTALS FOR EARLIER YEARS

(In thousands of dollars. Statistics are shown for selected product classes which are economically significant and production of which is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (Table 2) and they are not miscellaneous or "not specified by type" classes. For each product class, States are listed only if the value of shipments is more than \$1 million and the figure does not disclose individual company information. Additional States which had shipments of more than \$1 million of the individual product classes are listed in footnote 1)

Product class, region, and State <sup>1</sup>	Value of shipments	Product class, region, and State <sup>1</sup>	Value of shipments
<u>Distilled liquors, except brandy (20851)</u>		<u>Bottled liquors (20853)—Continued</u>	
1954 United States, total.....	123,398	1951 United States, total.....	660,821
1951 United States, total.....	242,791	1950 United States, total.....	734,562
1950 United States, total.....	214,776	1947 United States, total.....	654,383
1947 United States, total.....	190,401		
1954		1954	
Northeast.....	18,411	Northeast.....	98,228
New England.....	1,211	New England.....	16,278
Middle Atlantic.....	17,200	Massachusetts.....	10,471
North Central.....	26,484	Middle Atlantic.....	81,950
Indiana.....	10,631	Pennsylvania.....	55,043
South.....	76,551	North Central.....	186,008
West.....	1,952	Indiana.....	81,699
Pacific.....	1,952	Illinois.....	70,905
<u>Bottled liquors (20853)</u>		South.....	234,804
1954 United States, total.....	540,231	West.....	21,191
1953 United States, total.....	655,433		
1952 United States, total.....	594,767		

<sup>1</sup>For the specified product classes, shipments of over \$1 million were reported for the States listed but the exact figures are withheld to avoid disclosure of individual company figures: 20851, New Jersey, Pennsylvania, Ohio, Illinois, Iowa, Kansas, Maryland, and California; 20853, Connecticut, New York, New Jersey, Ohio, Michigan, Missouri, Maryland, Virginia, Kentucky, Tennessee, and California.

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Table 7.—MATERIALS CONSUMED, BY KIND: 1954 AND 1947

Code	Description of materials <sup>1</sup>	Unit of measure	1954		1947	
			Quantity	Delivered cost (\$1,000)	Quantity	Delivered cost (\$1,000)
	INDUSTRY 2082—BEER AND ALE					
	Materials, ingredients, containers and supplies, total.....	.....	xxx	736,388	xxx	xxx
011115	Corn (purchased as grain).....	Thousand bushels.	4,409	6,517	xxx	xxx
206011	Sugar (cane and beet).....	Cwt.....	286,707	2,242	xxx	xxx
208311	Malt.....	...do....	25,766,828	166,364	xxx	xxx
970000	Other materials, ingredients, containers, and supplies (including bottle and case loss).....	.....	xxx	560,126	xxx	xxx
971000	Materials, etc., not specified by kind.....	.....	xxx	1,139	xxx	xxx
	INDUSTRY 2083—MALT					
	Barley and other materials, ingredients, containers and supplies, total...	.....	xxx	148,399	xxx	xxx
011125	Barley.....	Thousand bushels.	88,969	145,079	xxx	xxx
970000	Other materials, ingredients, containers and supplies.....	.....	xxx	3,320	xxx	xxx
	INDUSTRY 2085—DISTILLED LIQUOR					
	Materials, parts, containers, and supplies, total.....	.....	xxx	346,343	xxx	387,304
	Materials used in distilling:					
011115	Corn.....	Thousand bushels.	22,699	38,588	33,264	60,604
011151	Rye.....	...do....	5,089	7,640	xxx	119,232
208311	Malt.....	Cwt.....	1,870,039	10,285		
970001	All other materials, ingredients, containers, and supplies used in distilling operations (cooperage etc.).....	.....	xxx	38,978		
	Materials used in bottling:					
208511	Spirits.....	Thousand tax gals.	41,128	19,342	xxx	207,468
208551	Aged whiskey.....	...do....	81,582	113,467		
970002	All other materials, ingredients, containers and supplies used in bottling operations (flavors, bottles, closures, etc.).....	.....	xxx	116,833		
971000	Materials, etc., not specified by kind.....	.....	xxx	1,210	xxx	...

xxx Not applicable.

<sup>1</sup>Sugar (code 206011) consumed by Industry 2081, Bottled Soft Drinks, amounted to 8,837,861 cwt. valued at \$82,643,000 in 1954 (not including the sugar content of purchased flavoring sirups). Data on flavoring sirups consumed were collected from soft drink bottlers for 1954, but did not meet publication standards.

## MANUFACTURES--INDUSTRY STATISTICS

Table 8.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY INDUSTRY SPECIALIZATION AND PRIMARY PRODUCT CLASS SPECIALIZATION, FOR THE UNITED STATES: 1954

(This table presents selected statistics for establishments classified according to their degree of specialization in products primary to the industry. The establishments are classified in two ways: (1) by industry specialization—the degree of specialization in all primary products of the industry; and (2) by product-class specialization—the degree of specialization in the largest product class of the establishment. The degree of "industry specialization" for an establishment represents the ratio of its primary product shipments to its total product shipments, primary and secondary. The degree of "product-class specialization" for an establishment represents the ratio of its largest product class shipments to its total product shipments, primary and secondary. Data are not shown for some industries, product classes, and specialization ranges for a variety of reasons, consequently, detailed figures frequently do not add to the totals. See Introduction for detailed explanation)

Ind. or prod- uct class No.	Industry or product class by percent of specialization	Estab- lish- ments, number	All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
2085	DISTILLED LIQUOR (entire industry).....	133	21,505	89,367	17,117	32,892	65,504	356,741	354,571	711,313
	Establishments with:									
	90% or more specialization.....	124	20,827	86,181	16,664	32,003	63,977	348,435	345,310	693,746
	75-89% specialization.....	4	474	2,459	340	698	1,211	7,143	6,574	13,717
20851	Distilled liquor except brandy:									
	All establishments specializing in product class	36	2,507	10,106	2,026	4,199	7,270	19,995	35,682	55,678
	Establishments with:									
	90% or more specialization.....	15	526	1,846	452	870	1,493	5,406	6,499	11,906
	75-89% specialization.....	5	399	1,592	325	601	1,101	2,859	4,537	7,396
20853	Bottled liquor:									
	All establishments specializing in product class	84	18,572	77,384	14,904	28,053	57,106	332,884	311,333	644,218
	Establishments with:									
	90% or more specialization.....	43	3,404	14,281	2,485	4,915	9,281	50,792	42,455	93,247
	75-89% specialization.....	27	12,084	50,337	9,997	18,356	38,544	246,333	216,766	463,099

Table 9.—VALUE OF SHIPMENTS OF SOFT DRINKS, BY CLASS OF CUSTOMER: 1954

	Shipments (sales) of soft drinks, product code 20810		
	Quantity (1,000 cases)	Value (\$1,000)	Percent of total value
Shipments by all manufacturing establishments.....	1,097,100	1,096,065	xxx
Shipments by establishments reporting class of customer data, total.....	890,209	872,686	xxx
To wholesalers (independent distributors).....	98,155	91,342	xxx
To retailers, total.....	1,792,054	1,781,344	100
To food stores selling primarily for home consumption.....	393,040	410,421	52
To outlets selling primarily for on-premise consumption:			
Industrial plants.....	78,599	70,904	9
Hospitals and institutions.....	26,242	24,097	3
Hotels, bars and restaurants.....	99,343	100,739	13
Filling stations.....	84,215	74,276	10
Armed forces (Post exchanges etc.).....	21,705	19,597	3
Amusements-theaters, ball parks, bowling alleys, etc.....	25,916	23,872	3
Roadside stands and other outlets selling primarily for on-premise consumption	62,994	57,438	7

<sup>1</sup>Includes 139,051,000 cases valued at \$133,766,000, sold through coin-operated vending machines. Establishments reporting class-of-customer data owned and operated 331,922 vending machines in 1954, and also serviced an additional number (unknown) of machines owned by the retailer.



## Miscellaneous Food Preparations

This report shows 1954 Census of Manufactures statistics for establishments classified in each of the following industries:

<u>Code</u>	<u>Title</u>
2091--	Leavening Compounds
2092--	Shortening and Cooking Oils
2093--	Margarine
2094--	Corn Wet Milling
2095--	Flavorings
2097--	Manufactured Ice
2098--	Macaroni and Spaghetti
2099--	Miscellaneous Food Preparations, Not Elsewhere Classified

2091--Leavening Compounds (Full Standard Industrial Classification Title: Baking Powder, Yeast, and Other Leavening Compounds)

This industry comprises establishments primarily engaged in the manufacture of baking powder, yeast, and other compounds used for leavening purposes. Establishments primarily engaged in manufacturing yeast tablets for human use are classified in Industry 2834, Pharmaceutical Preparations. For a detailed list of primary products of Industry 2091, refer to Table 6A, product codes 2091111 to 2091271.

The value of shipments of Industry 2091, Leavening Compounds, in 1954 totaled \$71 million. This included shipments of primary products (leavening compounds) valued at \$63 million, and shipments of secondary products valued at \$8 million. Industry 2091 shipments of leavening compounds (primary products) in 1954 represented 89 percent of its total product shipments (primary and secondary).

Receipts for merchandising (products bought and resold without further manufacture or processing) valued at \$6 million are excluded from the \$71 million value of shipments of Industry 2091. Data relating to these merchandising receipts are also excluded from the cost of materials and value added, but these activities are reflected in other detailed industry statistics, mainly employment and inventory.

Industry 2091 shipments of leavening compounds in 1954 represented 90 percent of the leavening compounds valued at \$70 million shipped by all industries.

2092--Shortening and Cooking Oils (Full Standard Industrial Classification Title: Shortening and Other Cooking and Edible Fats and Oils Not Elsewhere Classified)

This industry comprises establishments primarily engaged in manufacturing edible vegetable and compound shortenings, vegetable cooking oils, salad oils, and other refined table oils not elsewhere classified, by further processing of purchased animal and vegetable oils. Refined salad or cooking oils include those which have been bleached, deodorized, or winterized. Other products included in this industry are mono- and di-glycerides, olive oil, and refined vegetable oils. Establishments primarily engaged in producing oleomargarine are classified in Industry 2093, Oleomargarine; corn oil in Industry 2094, Corn Wet Milling; and cottonseed, linseed, soybean, marine, and other animal and vegetable oils in Group 288, Vegetable and Animal Oils.

For a detailed list of primary products of Industry 2092, refer to Table 6A, product codes 2092011 to 2092071.

The value of shipments of Industry 2092, Shortening and Cooking Oils in 1954 totaled \$935 million. This included shipments of primary products (shortening and cooking oils) valued at \$795 million, shipments of secondary products valued at \$139 million, and miscellaneous receipts of \$2 million.

Industry 2092 shipments of shortening and cooking oils (primary products) in 1954 represented 85 percent of its total product shipments (primary and secondary). In 1947, this primary product specialization ratio was 82 percent. Secondary products shipped by this industry in 1954 consisted mainly of

margarine, \$78 million; cottonseed oil mill products, \$22 million; and other vegetable and animal oils, \$11 million.

Industry 2092 shipments of shortening and cooking oils in 1954 represented 89 percent of these products valued at \$888 million shipped by all industries. This coverage ratio was 96 percent in 1947. Other industries shipping shortening and cooking oils consisted mainly of Industry 2884, Vegetable Oil Mills, N.E.C., \$21 million, and Industry 2011, Meat Packing Plants, \$19 million.

2093--Margarine (Full Standard Industrial Classification Title: Oleomargarine)

This industry comprises establishments primarily engaged in manufacturing oleomargarine, margarine, nut margarine, etc. For a detailed list of primary products of this industry, refer to Table 6A, product codes 2093011 to 2093019.

The value of shipments of Industry 2093, Margarine, in 1954 totaled \$192 million. This included shipments of primary products (margarine) valued at \$172 million, and shipments of secondary products valued at \$20 million.

Industry 2093 shipments of margarine (primary products) in 1954 represented 90 percent of its total product shipments (primary and secondary). In 1947, this primary product specialization ratio was 81 percent. Secondary products shipped by this industry in 1954 consisted mainly of shortening and salad oils, \$9 million; and salad dressings, including mayonnaise, \$6 million.

Industry 2093 shipments of margarine in 1954 represented 62 percent of the margarine, valued at \$278 million, shipped by all industries. This coverage ratio was 73 percent in 1947. Other industries shipping margarine consisted mainly of Industry 2092, Shortening and Cooking Oils, \$78 million.

2094--Corn Wet Milling (Full Standard Industrial Classification Title: Corn Sirup, Corn Sugar, Corn Oil, and Starch)

This industry comprises establishments primarily engaged in manufacturing sirup, sugar, oil, and starch from corn (wet-process corn milling). Establishments primarily engaged in manufacturing potato, rice, wheat, root, and other starches are also included in this industry. Establishments primarily engaged in manufacturing mixed or blended sweetening sirups containing corn sirup are classified in Industry 2099, Miscellaneous Food Preparations, N.E.C., and those primarily engaged in manufacturing corn meal and grits are classified in Industry 2041, Flour and Meal.

For a detailed list of primary products of Industry 2094 refer to Table 6A, product codes 2094111 to 2094551.

The value of shipments of Industry 2094, Corn Wet Milling, in 1954 totaled \$458 million. This included shipments of primary products (corn wet milling products and starch) valued at \$419 million, and shipments of secondary products valued at \$39 million. The value of shipments of Industry 2094 contains 5 to 10 percent duplication owing to the reprocessing of starch and corn oil within the industry.

Industry 2094 shipments of primary products in 1954 represented 91 percent of its total product shipments (primary and secondary). In 1947, this primary product specialization ratio was 88 percent. Secondary products shipped by this industry in 1954 consisted mainly of sweetening sirup and molasses, mixed or blended, \$26 million.

Industry 2094 shipments of primary products (corn wet milling products and starch) in 1954 represented 96 percent of these products valued at \$436 million shipped by all industries. This coverage ratio was also 96 percent in 1947.

2095--Flavorings (Full Standard Industrial Classification Title: Flavoring Extracts and Flavoring Sirups, Not Elsewhere Classified)

This industry comprises establishments primarily engaged in manufacturing flavoring extracts, sirups, and fruit juices, not elsewhere classified, for soda fountain use or for the manufacture of soft drinks, and colors for bakers' and confectioners' use. Important products of this industry include flavoring extracts, flavoring concentrates; flavoring powders and pastes; burnt-sugar and other food colors; flavoring sirups; and crushed fruit for fountain use. Establishments primarily engaged in manufacturing frozen concentrated fruit juices are classified in Industry 2037, Frozen Fruits and Vegetables; chocolate sirups in Industry 2072, Chocolate and Cocoa Products; mixed or blended sweetening sirups and molasses in Industry 2099, Miscellaneous Food Preparations, N.E.C., and synthetic food dyes and colors in Industry 2822, Intermediate Coal Tar Products.

For a detailed list of primary products of Industry 2095 refer to Table 6A, product codes 2095111 to 2095481.

The value of shipments of Industry 2095, Flavorings, in 1954 totaled \$446 million. This included shipments of primary products (flavorings) valued at \$406 million, shipments of secondary products valued at \$38 million, and miscellaneous receipts of \$2 million.

Industry 2095 shipments of flavorings in 1954 represented 91 percent of its total product shipments (primary and secondary). In 1947, this primary product specialization ratio was 93 percent. Secondary products shipped by this industry in 1954 consisted mainly of chocolate and cocoa products, \$11 million; canned fruit juices, \$5 million; and bottled soft drinks, \$3 million.

Industry 2095 shipments of flavorings in 1954 represented 87 percent of these products valued at \$464 million shipped by all industries. This coverage ratio was 89 percent in 1947.

#### 2097--Manufactured Ice

This industry comprises establishments primarily engaged in manufacturing ice for sale. Establishments primarily engaged in manufacturing dry ice are classified in Industry 2896, Compressed and Liquified Gases. Establishments primarily engaged in harvesting and storage of natural ice for sale and cold storage warehouses manufacturing ice are excluded from the Census of Manufactures. For a detailed list of primary products of Industry 2097, refer to Table 6A, product codes 2097011 to 2097051.

The value of shipments of Industry 2097, Manufactured Ice, in 1954 totaled \$143 million. This included shipments of primary products (manufactured ice) valued at \$128 million, and miscellaneous receipts (mainly for cold storage rental) of \$14 million. Receipts for merchandising (products bought and resold without further manufacture or processing) valued at \$27 million are excluded from the \$143 million value of shipments of Industry 2097. Data relating to these merchandising receipts are also excluded from the cost of materials and value added, but these activities are reflected in other detailed industry statistics, mainly employment and inventory.

Industry 2097 shipments of manufactured ice in 1954 represented virtually 100 percent of its total product shipments (primary and secondary). In 1947 this primary product specialization ratio was also 100.

Industry 2097 shipments of manufactured ice in 1954 represented 97 percent of the manufactured ice valued at \$133 million shipped by all manufacturing industries. This coverage ratio was 98 percent in 1947.

2098--Macaroni and Spaghetti (Full Standard Industrial Classification Title: Macaroni, Spaghetti, Vermicelli, and Noodles)

This industry comprises establishments primarily engaged in manufacturing macaroni, spaghetti, vermicelli, and noodles. Establishments primarily engaged in manufacturing packaged macaroni or spaghetti dinners with cheese or sauce, except

canned, are also included in this industry. Establishments primarily engaged in manufacturing canned spaghetti are classified in Industry 2033, Canning and Preserving, Except Fish.

For a detailed list of primary products of Industry 2098 refer to Table 6A, product codes 2098011 to 2098051.

The value of shipments of Industry 2098, Macaroni and Spaghetti, in 1954 totaled \$150 million. This included shipments of primary products (macaroni products) valued at \$144 million, shipments of secondary products valued at \$3 million, and miscellaneous receipts of \$3 million.

Industry 2098 shipments of macaroni products in 1954 represented 98 percent of its total product shipments (primary and secondary). In 1947, this primary product specialization ratio also was 98 percent.

Industry 2098 shipments of macaroni products in 1954 represented 95 percent of these products valued at \$151 million shipped by all industries. This coverage ratio was 99 percent in 1947.

#### 2099--Miscellaneous Food Preparations, Not Elsewhere Classified

This industry comprises establishments primarily engaged in manufacturing prepared foods and miscellaneous food specialties not elsewhere classified, such as baked beans (not canned); bakers' confectioners', and household supplies (including chili pepper and powder, desiccated and shredded coconut, marshmallow creme, pie and cake fillings, and powdered sugar); bouillon cubes; brown bread (canned, Boston, and other); coffee; instant chocolate and cocoa; ready-to-mix desserts; egg albumen; eggs (dehydrated, desiccated, processed, canned, liquid and frozen); "health foods;" ice-cream cones and wafers; Italian, Spanish, Mexican, and Chinese cakes and other "native" preparations; meat pies; mincemeat; molasses (mixed or blended); peanut products (except peanut candy and salted peanuts); pectin; potato chips; ravioli; spices and meat seasonings; sweetening sirups (including honey, maple sirup, and sorghum); tea, packaged and blended; vinegar and cider. Establishments primarily engaged in manufacturing instant chocolate and cocoa from purchased chocolate are included in this industry; but they are classified in Industry 2072, Chocolate and Cocoa products, if the establishment also manufactures chocolate primarily from cocoa beans.

The SIC definition for Industry 2099 has been amended by the Bureau of the Budget to include former SIC Industry 2096, Vinegar and Cider.

An important segment of Industry 2099 comprises establishments primarily engaged in coffee roasting. As indicated in Table 8, the value of shipments of this segment of the industry in 1954 was \$2,007 million, or 61 percent of the total value of shipment of Industry 2099. Value added by manufacture in coffee roasting plants was \$341 million, or 42 percent of the Industry 2099 total.

For a detailed list of primary products of Industry 2099, refer to Table 6A, product codes 2099111 to 2099798, and 2072211 to 2072295.

The value of shipments of Industry 2099, Miscellaneous Food Preparations, Not Elsewhere Classified, in 1954 totaled \$3,256 million. This included shipments of primary products (miscellaneous food preparations, not elsewhere classified) valued at \$3,057 million, shipments of secondary products valued at \$169 million, and miscellaneous receipts of \$30 million.

Industry 2099 shipments of miscellaneous food preparations not elsewhere classified in 1954 represented 94 percent of its total product shipments (primary and secondary). In 1947, this primary product specialization ratio was 91 percent. Secondary products shipped by this industry in 1954 included salad dress-

# MISCELLANEOUS FOOD PREPARATIONS

20H-3

ings, \$12 million; canned soups and poultry products, \$11 million; and jams, jellies, and preserves, \$10 million.

Industry 2099 shipments of primary products (miscellaneous food preparations, not elsewhere classified), in 1954 represented 86 percent of these products, valued at \$3,549 million shipped

by all industries. This coverage ratio was 89 percent in 1947. Other industries shipping products of Industry 2099 included Industry 2072, Chocolate and Cocoa Products, \$295 million, Industry 2033, Canned Fruits and Vegetables, \$33 million, Industry 2094, Corn Wet Milling, \$27 million, and Industry 2015, Poultry Dressing Plants, \$24 million.

The general statistics (employment, payrolls, value of shipments, cost of materials, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products, and, for that matter, their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (Tables 1-4) with product statistics (Table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in Table 5A which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry made as secondary products by establishments classified in other industries.



Table 1.—GENERAL STATISTICS FOR THE UNITED STATES: 1954 AND EARLIER YEARS  
(For explanation of column captions see Introduction)

Industry and census year	Establish- ments, number	All employees		Production workers		Value added by manufacture <sup>2</sup> (\$1,000)	Cost of materials, etc. <sup>3</sup> (\$1,000)	Value of shipments <sup>4</sup> (\$1,000)
		Number <sup>1</sup>	Payroll (\$1,000)	Number <sup>1</sup>	Wages (\$1,000)			
Leavening compounds (S.I.C. 2091):								
1954.....	43	2,685	12,246	1,987	8,696	45,350	25,834	71,185
1952 <sup>5</sup> .....	(NA)	2,994	11,174	2,388	8,908	52,773	33,699	86,472
1951 <sup>5</sup> .....	(NA)	2,934	10,686	2,400	8,534	52,342	32,356	84,698
1947.....	48	3,066	8,944	2,364	6,804	46,494	25,801	72,295
1939.....	47	4,023	7,554	2,334	3,654	17,312	14,463	31,775
1937.....	40	2,921	5,173	2,380	3,761	16,949	13,330	30,279
1935.....	46	3,355	6,327	2,666	4,278	17,938	14,403	32,341
1933.....	40	3,274	4,954	2,690	3,654	18,863	13,112	31,975
1931.....	45	(NA)	(NA)	2,881	4,798	26,281	20,746	47,027
1929.....	48	3,659	7,248	3,006	4,847	29,739	22,598	52,337
1927.....	47	4,024	7,470	3,032	4,794	31,097	24,619	55,716
1925.....	49	3,899	6,778	2,931	4,063	29,971	23,376	53,347
1923.....	57	4,952	7,979	3,507	4,920	30,034	21,657	51,691
1921.....	62	5,005	7,665	3,557	4,479	28,220	24,666	52,886
1919.....	88	4,841	6,362	3,331	3,555	19,595	26,635	46,230
1914.....	124	3,522	3,148	2,270	1,241	11,444	10,895	22,339
1909.....	144	3,421	2,756	2,155	1,046	11,437	9,338	20,775
1904.....	164	3,205	1,980	2,449	1,042	10,103	8,940	19,043
1899.....	191	2,687	1,552	1,938	717	7,441	7,127	14,568
Shortening and cooking oils (S.I.C. 2092):								
1954.....	102	9,398	42,414	6,755	27,571	175,988	759,347	935,338
1953 <sup>5</sup> .....	(NA)	8,701	38,615	6,118	24,096	136,021	622,307	758,328
1952 <sup>5</sup> .....	(NA)	9,189	38,975	6,502	25,249	134,250	586,249	715,985
1951 <sup>5</sup> .....	(NA)	8,785	34,870	6,420	22,942	129,668	722,881	848,027
1950 <sup>5</sup> .....	(NA)	8,652	32,254	6,482	21,712	127,149	562,460	685,095
1949 <sup>5</sup> .....	(NA)	8,646	30,085	6,387	20,335	95,649	590,104	681,239
1947.....	100	8,003	24,550	5,931	16,298	162,146	737,405	884,713
1939 <sup>6</sup> .....	82	(NA)	(NA)	4,913	5,638	33,131	158,742	191,873
1937.....	48	6,104	8,097	4,901	5,651	35,112	204,383	239,495
1935.....	48	5,898	6,802	4,845	4,709	34,713	177,976	212,689
1933.....	49	4,444	4,585	3,658	3,217	17,681	68,149	85,830
1931.....	50	(NA)	(NA)	3,692	4,011	15,461	99,841	115,302
1929.....	40	3,771	5,101	2,996	3,381	15,522	139,031	154,553
1927 <sup>7</sup> .....	33	3,186	3,913	2,655	2,624	11,389	137,079	148,468
1925.....	26	2,262	2,490	1,962	1,839	11,342	98,660	110,002
1923.....	27	2,152	2,489	1,684	1,406	6,391	52,396	58,787
1921.....	24	1,383	1,750	1,087	1,056	2,412	31,076	33,488
1919.....	27	3,072	3,657	2,390	2,423	10,394	110,855	121,249
1914 <sup>8</sup> .....	20	2,577	1,632	1,762	765	9,224	38,438	47,662
Margarine (S.I.C. 2093):								
1954.....	33	2,626	10,463	1,835	6,314	42,467	149,876	192,343
1953 <sup>5</sup> .....	(NA)	2,447	9,988	1,797	6,508	35,966	133,306	169,272
1952 <sup>5</sup> .....	(NA)	3,057	11,442	2,446	8,930	59,088	149,155	208,125
1951 <sup>5</sup> .....	(NA)	2,708	10,218	2,156	7,274	49,674	149,286	198,842
1947.....	27	2,567	8,337	1,806	5,279	43,750	169,749	214,598
1939.....	18	1,709	2,896	984	1,295	12,367	21,735	34,102
1937.....	16	1,599	2,469	1,214	1,607	13,576	30,987	44,563
1935.....	14	1,512	1,992	1,196	1,303	9,109	23,293	32,402
1933.....	16	1,126	1,330	841	855	4,454	8,312	12,766
1931.....	32	(NA)	(NA)	1,043	1,352	7,549	15,269	22,818
1929.....	41	2,116	3,654	1,534	2,264	15,632	30,890	46,522
1927.....	36	2,068	3,540	1,502	2,258	12,137	27,145	39,282
1925.....	38	2,158	3,384	1,639	2,278	11,472	28,384	39,856
1923.....	31	2,046	3,073	1,484	1,921	10,181	25,772	35,953
1921.....	45	2,782	4,569	2,041	2,728	11,115	28,062	39,177
1919.....	42	3,867	5,168	2,851	3,184	13,773	66,043	79,816
1914.....	17	1,264	1,081	917	584	4,823	10,257	15,080
1909.....	12	772	689	606	413	1,651	6,497	8,148
1904.....	14	728	569	522	316	1,176	4,398	5,574
1899.....	24	1,478	946	1,084	534	4,860	7,640	12,500
Corn wet milling (S.I.C. 2094):								
1954.....	58	13,565	60,030	10,584	43,172	176,696	281,746	458,442
1953 <sup>5</sup> .....	(NA)	14,068	63,376	11,047	45,217	176,520	320,896	497,416
1952 <sup>5</sup> .....	(NA)	11,850	51,391	9,564	37,879	146,289	292,694	438,983
1951 <sup>5</sup> .....	(NA)	12,227	50,285	9,976	39,206	125,273	304,652	429,925
1950 <sup>5</sup> .....	(NA)	11,389	43,730	9,361	34,321	132,540	265,913	398,453
1949 <sup>5</sup> .....	(NA)	10,759	37,527	8,931	28,881	105,402	222,982	328,384
1947.....	55	12,324	41,115	10,158	32,688	127,143	332,835	459,978
1939.....	35	9,024	15,726	6,764	10,586	52,493	66,913	119,406
1937.....	27	8,137	13,492	7,010	10,411	39,358	96,462	135,820
1935.....	36	8,616	11,876	7,337	8,436	33,369	70,263	103,632
1933.....	28	8,692	10,986	7,591	8,575	45,941	47,420	93,361
1931.....	43	(NA)	(NA)	6,552	7,963	44,689	54,034	98,723
1929.....	35	8,218	14,009	6,730	9,873	61,699	104,285	165,984
1927.....	26	8,254	13,565	6,972	10,490	43,555	90,906	134,461
1925.....	30	7,835	12,652	6,492	9,378	39,834	93,064	132,898
1923.....	31	7,748	11,929	6,537	9,090	42,079	74,481	116,560
1921.....	32	7,097	10,069	6,131	7,840	29,180	50,861	80,041
1919.....	56	8,657	14,175	7,795	11,962	55,927	130,329	186,256
1914.....	89	5,887	5,490	4,509	3,550	12,407	40,208	52,615
1909.....	118	5,741	4,080	4,773	2,666	11,900	36,899	48,799
1904.....	140	5,298	3,296	4,679	2,641	7,131	25,519	32,650
1899.....	132	6,496	3,586	5,943	2,855	9,347	21,580	30,920

See footnotes at end of table.

## MISCELLANEOUS FOOD PREPARATIONS

20H-5

Table 1.—GENERAL STATISTICS FOR THE UNITED STATES: 1954 AND EARLIER YEARS  
(For explanation of column captions see Introduction)

(For explanation of column captions see introduction.)								
Industry and census year	Establishments, number	All employees		Production workers		Value added by manufacture <sup>2</sup>	Cost of materials, etc. <sup>3</sup>	Value of shipments <sup>4</sup>
		Number <sup>1</sup>	Payroll (\$1,000)	Number <sup>1</sup>	Wages (\$1,000)			
Flavorings (S.I.C. 2095):								
1954.....	558	10,593	45,060	6,543	20,308	219,445	226,611	446,056
1952 <sup>5</sup> .....	(NA)	11,322	45,416	7,022	21,795	219,434	226,031	445,465
1950 <sup>5</sup> .....	(NA)	10,072	34,970	5,679	17,867	193,678	174,353	368,031
1951 <sup>5</sup> .....	(NA)	10,459	32,144	6,083	17,270	171,504	171,248	342,752
1950 <sup>5</sup> .....	(NA)	11,707	34,479	6,865	17,818	166,669	171,696	338,365
1947.....	606	11,726	37,149	7,242	17,720	158,333	155,240	313,573
1939.....	477	6,950	12,300	3,589	3,764	89,734	50,168	139,902
1937.....	398	5,817	8,292	4,162	4,274	71,617	46,280	117,897
1935.....	407	4,563	6,708	2,902	2,651	38,690	29,185	67,875
1933 <sup>9</sup> .....	383	3,568	4,237	2,287	2,184	33,836	20,333	54,169
Manufactured ice (S.I.C. 2097):								
1954.....	1,963	20,854	61,811	12,880	35,593	115,469	27,811	143,280
1952 <sup>5</sup> .....	(NA)	27,406	85,930	14,367	39,621	129,104	41,570	170,674
1951 <sup>5</sup> .....	(NA)	27,959	87,204	14,081	36,036	126,115	36,958	163,073
1950 <sup>5</sup> .....	(NA)	35,824	97,947	18,320	48,449	136,083	45,078	181,161
1947.....	3,432	46,462	103,038	29,048	63,026	226,584	46,831	273,415
1939.....	3,975	37,230	43,960	15,912	17,692	104,156	26,010	130,166
1937.....	3,847	24,721	32,671	18,705	21,603	109,025	27,517	136,542
1935.....	3,850	26,583	34,895	19,032	20,635	100,337	28,048	128,385
1933.....	3,699	26,952	31,563	21,332	22,849	112,304	26,959	139,263
1931.....	4,111	(NA)	(NA)	25,217	33,656	156,949	35,078	192,027
1929.....	4,110	39,549	59,220	32,184	42,399	171,144	39,808	210,952
1927.....	3,159	29,155	47,283	22,120	32,611	143,979	40,816	184,795
1925.....	3,077	31,682	49,075	24,915	35,046	142,244	44,725	186,969
1923.....	3,097	34,037	48,673	26,852	35,040	117,998	46,664	164,662
1921.....	2,715	30,347	44,567	24,066	32,630	107,715	51,174	158,889
1919.....	2,867	37,039	44,954	30,247	34,002	94,127	42,878	137,005
1914.....	2,543	28,431	20,546	23,011	14,841	42,631	17,755	60,386
1909.....	2,004	20,041	13,647	16,114	9,779	31,636	11,317	42,953
1904.....	1,320	12,433	7,550	10,101	5,549	17,779	6,011	23,790
1899.....	787	8,478	4,659	6,933	3,424	10,535	3,340	13,875
Macaroni and spaghetti (S.I.C. 2098):								
1954.....	233	7,058	24,278	5,276	14,465	50,951	98,704	149,656
1952 <sup>5</sup> .....	(NA)	7,324	23,684	5,655	15,272	45,874	104,959	150,833
1951 <sup>5</sup> .....	(NA)	7,114	21,061	5,659	14,355	39,948	100,520	140,468
1947.....	226	8,043	18,763	6,628	13,134	42,049	70,045	112,094
1939.....	328	8,140	9,351	6,013	5,383	19,224	26,929	46,153
1937.....	319	7,436	7,669	6,452	5,719	17,523	32,836	50,359
1935.....	336	6,979	7,271	6,005	5,306	15,788	31,811	47,599
1933.....	296	6,155	5,275	5,492	4,265	15,507	20,385	35,892
1931.....	309	(NA)	(NA)	4,764	4,474	15,914	20,311	36,225
1929.....	353	5,964	7,687	5,072	5,384	19,738	27,336	47,074
1927.....	353	5,459	7,167	4,587	5,071	17,919	27,434	45,353
1925.....	327	(NA)	(NA)	4,560	5,026	15,998	27,491	43,489
1923.....	343	4,915	5,972	4,098	4,332	12,911	16,646	29,557
1921.....	409	4,645	5,240	3,865	3,749	11,049	19,964	31,013
1919.....	557	5,539	5,875	4,543	4,168	11,947	25,110	37,057
1914 <sup>8</sup> .....	373	4,184	2,389	3,534	1,638	4,946	7,938	12,884
Food preparations, n.e.c. (S.I.C. 2099):								
1954.....	2,599	71,952	251,440	52,761	146,907	806,298	2,449,670	3,255,967
1947 <sup>11</sup> .....	2,199	49,346	142,522	45,391	86,598	358,643	1,208,280	1,600,903

NA Not available.

<sup>1</sup>For the period 1949-1954, figures are based on employment for the payroll periods ended nearest the 15th of March, May, August and November. (However, in the case of the "Shortening and cooking oils," "Oleomargarine," "Manufactured ice" and "Food preparations, n.e.c." industries a different method was used for 1954: all employees represents the average of 12 monthly figures and production workers was calculated by subtracting from the all employees total the average number of nonproduction employees for March, May, August and November.) For 1947, they represent the average of 12 monthly figures. For earlier years, the production worker average was calculated as in 1947, but the figure for all employees represents the sum of the annual average number of production workers and the number of nonproduction workers reported for one payroll period (usually in October).

<sup>2</sup>Value of products less cost of materials, supplies, fuel, electric energy and contract work. See Introduction, "Value Added by Manufacture." For the "Shortening and cooking oils" and "Oleomargarine" industries, 1947 value added by manufacture does not equal the published value of products shipped less cost of materials, etc. because an estimated value of production was used in the calculation in place of value of products shipped. Since the 1949-1952 figures are estimates derived from 1947 base totals, the same inequality may exist for these years.

<sup>3</sup>Figures for years prior to 1935 do not include cost of contract work.

<sup>4</sup>For 1929 and 1947-1954, value of shipments, except in the case of "Shortening and cooking oils" for 1929, where the data represent value of production; for all other years, value of production. See Introduction, "Value of Shipments."

<sup>5</sup>The figures for 1949-1953 represent estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period. Estimates with a standard error in excess of 15 percent generally have been omitted from this table.

<sup>6</sup>The figures for 1939 are not entirely comparable with those for earlier years. Value added by manufacture for 1939 on a basis comparable with earlier years was \$31.9 million for "Shortening and cooking oils."

<sup>7</sup>The figures for 1927-1954 include, whereas those for 1914-25 exclude, data for establishments primarily engaged in the manufacture of vegetable oils.

<sup>8</sup>"Shortening and cooking oils" and "Macaroni and spaghetti" were formerly included with "Food preparations, n.e.c." separate figures are, therefore, not available prior to 1914.

<sup>9</sup>The figures for "Flavorings" for 1931 and earlier years are not sufficiently comparable with those for later years to be shown in this table because they include data for malt extracts and exclude data for certain dairymen's supplies.

<sup>10</sup>Part of the apparent decline in the ice industry from 1954 to 1947 may be attributed to the fact that in 1947 a number of small establishments in which the primary activity was the resale of non-manufactured products, such as coal, were included in the Census of Manufactures. In the 1954 Census, such establishments were classified in retail or wholesale trade and included in the Census of Business, owing to the adoption of more stringent classification practices. This difference between the 1947 and 1954 Censuses, it is believed, had a substantial effect on the number of establishments but a much smaller effect on other statistics for the ice industry.

<sup>11</sup>No comparable figures are available for other years.



## MANUFACTURES--INDUSTRY STATISTICS

Table 2.--GENERAL STATISTICS BY REGIONS AND STATES: 1954 AND 1947  
(For explanation of column captions see Introduction)

Industry, region, and State <sup>1</sup>	1954											1947	
	Establishments, number		All employees		Production workers			Value added by manufacture	Cost of materials, etc.	Value of shipments	Capital expenditures, new	All employees, number	Value added by manufacture
	Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)		(\$1,000)
Leavening compounds (S.I.C. 2091), total.....	43	22	2,685	12,246	1,987	3,840	8,696	45,350	25,834	71,185	1,604	3,066	46,494
Northeast and North Central.....	34	15	2,193	10,154	1,607	3,100	7,115	37,947	21,863	59,811	1,098	(D)	(D)
New York.....	5	3	531	2,447	362	690	1,615	7,020	3,839	10,860	218	630	(D)
New Jersey.....	6	3	310	1,646	210	361	895	6,204	2,479	8,684	178	393	3,287
South.....	5	4	370	1,533	283	557	1,146	5,745	2,944	8,690	335	(D)	(D)
Pacific.....	4	3	120	559	95	182	434	1,657	1,026	2,683	170	(D)	(D)
Shortening and cooking oils (S.I.C. 2092), total.....	102	51	9,398	42,414	6,755	14,016	27,571	175,988	759,347	935,338	10,971	8,003	162,146
Northeast.....	21	7	1,577	7,469	1,128	2,187	5,003	32,310	107,790	140,101	1,732	2,280	47,209
New Jersey.....	6	4	854	3,771	647	1,223	2,750	16,546	54,162	70,709	549	1,381	30,956
East North Central.....	19	11	2,753	13,287	2,021	4,194	9,211	38,936	231,588	270,527	4,195	(D)	(D)
Illinois.....	12	8	1,482	6,987	1,097	2,336	4,819	23,015	133,138	156,156	941	961	18,502
South Atlantic.....	11	7	799	2,973	558	1,089	1,781	42,903	61,308	104,212	453	725	11,871
Georgia.....	4	3	492	1,746	346	673	1,070	39,159	42,342	81,501	353	468	(D)
East South Central.....	8	7	1,550	6,357	1,130	2,559	3,796	16,927	135,049	151,976	1,729	1,066	16,189
West South Central.....	13	13	1,550	6,508	1,120	2,390	4,193	28,150	136,211	164,361	1,617	1,445	25,476
Louisiana.....	3	3	336	1,113	256	511	739	7,573	35,546	43,120	(D)	(D)	(D)
Texas.....	7	7	1,007	4,606	720	1,564	2,952	18,145	86,296	104,441	1,545	975	21,709
Pacific.....	30	6	1,167	5,818	796	1,595	3,584	16,760	87,399	104,160	1,243	(D)	(D)
California.....	30	6	1,167	5,818	796	1,595	3,584	16,760	87,399	104,160	1,243	507	10,860
Margarine (S.I.C. 2093), total.....	33	30	2,626	10,463	1,835	3,681	6,314	42,467	149,876	192,343	1,478	2,567	43,750
Northeast and North Central.....	14	13	1,424	5,805	988	2,036	3,596	22,303	73,268	95,571	866	1,891	29,036
South.....	14	13	977	3,658	663	1,274	1,894	14,872	65,253	80,126	348		
Georgia.....	5	4	198	730	131	271	409	2,527	10,229	12,757	30	676	14,714
Texas.....	5	5	404	1,380	317	621	958	5,580	29,368	34,948	159		
Pacific.....	5	4	225	1,000	183	370	823	5,291	11,354	16,645	263		
Corn wet milling (S.I.C. 2094), total.....	58	21	13,565	60,030	10,584	21,008	43,172	176,696	281,746	458,442	16,391	12,324	127,143
Northeast.....	26	3	322	1,132	256	578	777	2,868	3,617	6,485	199	309	2,647
East North Central.....	12	6	8,503	36,360	6,666	12,711	26,246	110,569	173,377	283,946	11,851	7,833	87,203
Illinois.....	5	4	7,118	30,034	5,629	10,575	21,752	87,962	148,475	236,438	10,814	6,553	(D)
West North Central.....	7	7	4,102	19,944	3,176	6,726	14,295	58,494	93,434	151,929	3,909	4,076	36,430
South and West.....	13	5	636	2,593	485	990	1,852	4,764	11,316	16,081	430	106	863
Flavorings (S.I.C. 2095), total.....	558	108	10,593	45,060	6,543	12,402	20,308	219,445	226,611	446,056	6,642	11,726	158,333
New England.....	49	5	366	1,282	221	427	553	2,351	3,726	6,078	71	534	3,149
Massachusetts.....	33	3	260	941	161	313	403	1,767	2,564	4,332	53	327	2,034
Middle Atlantic.....	159	32	3,142	13,788	1,982	3,867	6,505	60,949	60,874	121,825	1,930	3,920	56,214
New York.....	105	21	2,079	9,701	1,189	2,366	4,167	39,396	40,720	80,117	1,487	2,807	40,396
New Jersey.....	26	4	574	2,463	444	868	1,547	16,457	13,844	30,303	303	731	12,960
Pennsylvania.....	28	7	489	1,624	349	632	790	5,095	6,309	11,404	139	382	2,858
East North Central.....	134	28	2,676	11,342	1,749	3,170	5,211	39,802	47,345	87,148	1,323	2,685	28,875
Ohio.....	29	6	442	1,629	261	427	632	2,961	4,130	7,092	159	635	(D)
Indiana.....	10	2	133	458	69	130	172	1,157	1,109	2,267	50	308	1,109
Illinois.....	63	17	1,897	8,433	1,296	2,398	4,057	33,580	39,211	72,792	1,059	1,488	21,018
Michigan.....	25	2	152	669	92	167	285	1,743	2,441	4,184	43	200	1,351
West North Central.....	43	5	541	2,506	378	702	1,248	12,850	14,739	27,590	963	602	9,257
Missouri.....	25	5	455	2,206	318	587	1,086	11,936	12,346	24,283	918	477	8,275
South Atlantic.....	50	8	1,203	4,682	638	1,226	1,641	41,736	31,908	73,645	769	1,080	24,703
Maryland.....	11	2	241	1,143	154	319	535	14,517	14,525	29,043	96	215	(D)
Virginia.....	8	3	358	1,319	197	367	363	2,151	2,952	5,104	(D)	98	(D)
Georgia.....	11	3	534	2,028	235	443	628	24,613	13,888	38,502	376	501	12,813
East South Central.....	14	4	202	631	151	300	418	13,489	13,223	26,714	389	175	3,310
Tennessee.....	6	3	117	343	84	168	220	1,283	9,004	10,288	(D)	96	(D)
West South Central.....	38	9	636	2,689	327	625	984	22,652	19,292	41,947	403	416	14,027
Texas.....	25	5	467	2,022	234	460	729	14,264	12,579	26,845	198	252	(D)
Mountain.....	6	1	109	424	77	160	249	999	1,354	2,353	(D)	60	928
Pacific.....	65	16	1,716	7,714	1,016	1,920	3,494	24,613	34,141	58,754	(D)	2,254	17,870
California.....	55	14	1,546	6,917	905	1,698	3,118	22,958	31,885	54,843	682	1,870	14,776

See footnotes at end of table.



## MISCELLANEOUS FOOD PREPARATIONS

20H-7

Table 2.—GENERAL STATISTICS BY REGIONS AND STATES: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Industry, region, and State <sup>1</sup>	1954										1947		
	Establishments, number		All employees		Production workers			Value added by manufacture	Cost of materials, etc.	Value of shipments	Capital expenditures, new	All employees, number	Value added by manufacture
	Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)		(\$1,000)
Manufactured ice (S.I.C. 2097), total.....	1,963	252	20,854	61,811	12,880	27,975	35,593	115,469	27,811	143,280	7,761	46,462	226,584
New England.....	66	2	405	1,378	308	689	954	2,955	692	3,648	100	1,184	7,973
Massachusetts.....	35	1	224	808	172	399	558	1,843	468	2,311	(D)	626	5,209
Middle Atlantic.....	189	20	1,785	6,531	1,185	3,359	5,042	13,151	3,037	16,189	365	4,078	24,465
New York.....	64	13	968	3,764	551	1,911	2,932	7,487	1,710	9,198	137	1,770	11,530
New Jersey.....	34	2	295	1,103	217	501	784	2,011	447	2,458	91	609	3,700
Pennsylvania.....	91	5	521	1,663	416	947	1,325	3,652	879	4,532	136	1,699	9,235
East North Central.....	184	41	2,673	9,799	1,712	3,690	5,870	16,818	3,707	20,525	762	6,458	35,489
Ohio.....	43	11	616	2,233	371	822	1,231	4,231	937	5,169	184	1,522	8,631
Indiana.....	38	4	405	1,336	238	524	698	1,825	486	2,311	74	1,412	5,975
Illinois.....	69	19	1,144	4,391	791	1,806	3,000	8,031	1,585	9,617	259	2,316	12,835
Michigan.....	27	5	414	1,422	264	446	771	1,983	561	2,545	235	735	5,010
West North Central.....	117	16	1,422	4,535	859	1,901	2,772	8,856	1,846	10,703	700	3,691	17,177
Iowa.....	17	2	173	570	109	252	383	1,299	303	1,603	61	780	3,768
Missouri.....	47	6	641	2,042	339	752	1,056	4,321	740	5,062	526	1,344	6,897
Nebraska.....	9	2	102	322	82	183	249	474	162	637	31	362	1,459
Kansas.....	39	5	396	1,130	239	500	681	1,927	465	2,392	69	805	3,083
South Atlantic.....	459	57	5,188	12,532	3,001	6,008	6,255	22,894	5,708	28,603	1,215	10,383	44,857
West Virginia.....	16	1	105	259	61	144	130	488	145	634	74	245	925
North Carolina.....	95	4	715	1,582	432	806	799	2,426	659	3,086	106	1,651	(D)
Georgia.....	115	17	1,391	2,947	768	1,350	1,260	5,122	1,399	6,521	364	2,686	9,784
Florida.....	108	16	1,370	3,597	860	1,895	2,029	7,353	1,821	9,175	357	2,514	13,353
East South Central.....	252	23	2,234	5,175	1,241	2,333	2,226	8,470	2,541	11,012	716	4,813	20,426
Kentucky.....	36	3	247	655	163	298	340	1,115	351	1,466	28	852	3,789
Tennessee.....	59	10	714	1,835	393	668	673	2,630	748	3,378	447	1,690	6,626
Alabama.....	89	6	778	1,648	425	846	742	2,816	803	3,620	143	1,185	5,330
Mississippi.....	68	4	493	1,036	259	519	470	1,908	639	2,547	97	1,086	4,681
West South Central.....	489	40	4,257	10,937	2,776	6,544	6,666	21,235	5,539	26,775	990	8,410	38,517
Arkansas.....	79	3	486	1,104	324	774	697	2,233	647	2,881	175	979	4,076
Louisiana.....	110	10	1,022	2,630	712	1,650	1,711	4,701	1,339	6,040	309	1,528	7,013
Mountain.....	55	16	806	2,601	545	1,033	1,464	5,312	1,352	6,665	728	2,107	9,105
Colorado.....	9	4	206	728	124	262	395	1,249	306	1,555	(D)	360	1,470
New Mexico.....	11	2	138	367	68	140	169	611	118	929	25	247	(D)
Arizona.....	17	5	302	1,013	224	418	611	2,372	694	3,067	171	840	3,895
Pacific.....	152	37	2,080	8,320	1,249	2,416	4,340	15,774	3,385	19,159	2,182	5,338	28,575
Washington.....	11	4	187	820	122	249	452	1,317	256	1,573	153	391	1,884
California.....	135	32	1,842	7,280	1,095	2,104	3,784	14,203	2,955	17,158	2,005	4,702	25,115
Macaroni and spaghetti (S.I.C. 2098), total.....	233	84	7,058	24,278	5,276	10,216	14,465	50,951	98,704	149,656	2,469	8,043	42,049
New England.....	19	3	381	1,464	285	583	828	3,801	6,802	10,603	136	340	2,197
Middle Atlantic.....	65	28	2,833	10,503	2,073	4,085	5,933	21,600	43,197	64,797	1,048	3,489	19,595
New York.....	44	15	1,540	5,650	1,109	2,212	3,096	11,468	23,202	34,670	501	1,846	11,386
New Jersey.....	7	4	555	2,435	389	819	1,398	4,983	9,967	14,951	217	663	(D)
Pennsylvania.....	14	9	737	2,417	574	1,053	1,438	5,147	10,028	15,176	329	980	(D)
East North Central.....	51	18	1,399	4,045	1,148	2,031	2,872	8,044	19,782	27,826	337	(D)	(D)
Ohio.....	19	2	159	434	115	220	279	1,060	2,158	3,218	62	176	728
Illinois.....	24	10	800	2,257	648	1,104	1,502	4,697	11,291	15,989	213	976	(D)
West North Central.....	15	10	878	3,080	573	1,121	1,482	6,997	9,740	16,738	275	(D)	(D)
Minnesota.....	5	3	251	950	148	275	429	2,487	3,283	5,771	28	191	(D)
Missouri.....	6	4	305	986	216	407	518	2,066	3,614	5,681	79	425	1,862
South and West.....	83	25	1,565	5,185	1,194	2,394	3,348	10,507	19,182	29,691	671	1,655	7,611
Washington.....	4	1	101	430	72	142	235	857	1,573	2,431	(D)	95	(D)
California.....	50	14	723	2,649	543	1,102	1,738	5,487	10,129	15,617	457	689	3,597
Food preparations, n.e.c. (S.I.C. 2099), total.....	2,599	703	71,952	251,440	52,761	103,702	146,907	806,298	2,449,670	3,255,967	38,168	59,599	392,623
New England.....	146	47	4,169	13,214	3,161	6,100	8,139	30,787	92,711	123,498	2,396	2,777	15,360
Maine.....	14	7	899	2,277	778	1,671	1,775	5,627	7,217	12,844	393	(D)	(D)
Massachusetts.....	96	31	2,618	8,794	1,869	3,503	4,984	18,794	75,182	93,977	1,760	2,027	11,151
Rhode Island.....	6	1	132	329	111	247	268	587	1,447	2,035	4	132	531
Connecticut.....	18	5	348	1,235	278	422	772	3,928	3,964	7,893	145	235	1,631
Middle Atlantic.....	539	142	17,303	67,538	12,808	26,368	42,657	260,580	767,952	1,028,532	8,321	12,432	110,878
New York.....	303	82	8,058	32,059	5,652	11,700	18,258	93,930	291,819	385,749	3,524	6,744	56,624
New Jersey.....	70	24	4,908	21,343	3,741	7,630	14,987	139,051	396,261	535,313	2,856	2,906	39,365
Pennsylvania.....	166	36	4,336	14,136	3,414	7,037	9,411	27,599	79,870	107,469	1,940	2,725	14,889

See footnotes at end of table.

## MANUFACTURES—INDUSTRY STATISTICS

Table 2.—GENERAL STATISTICS BY REGIONS AND STATES: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Industry, region, and State <sup>1</sup>	1954											1947	
	Establishments, number		All employees		Production workers			Value added by manufacture	Cost of materials, etc.	Value of shipments	Capital expenditures, new	All employees, number	Value added by manufacture
	Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)		(\$1,000)
Food preparations—Con.													
East North Central.....	521	159	14,765	54,329	11,150	21,547	31,625	152,129	406,489	558,618	6,448	13,076	89,905
Ohio.....	143	47	3,776	13,027	2,910	5,768	8,009	31,601	104,132	135,733	997	4,217	22,249
Indiana.....	51	17	1,249	4,144	954	1,884	2,685	14,455	19,292	33,747	821	656	2,849
Illinois.....	178	68	6,808	27,474	5,072	9,912	15,294	87,946	246,645	334,591	3,613	6,001	54,496
Michigan.....	108	20	2,175	7,369	1,636	2,861	4,092	12,279	28,515	40,794	657	1,535	7,027
Wisconsin.....	41	7	755	2,313	577	1,119	1,543	5,847	7,905	13,752	359	667	3,284
West North Central.....	235	86	8,712	25,570	7,041	13,804	16,561	57,172	272,733	329,905	3,473	10,254	45,538
Minnesota.....	37	14	1,407	4,262	1,155	2,308	2,865	11,720	29,202	40,923	760	1,501	8,463
Iowa.....	37	11	789	2,106	642	1,167	1,398	5,003	17,415	22,418	628	1,746	5,547
Missouri.....	94	38	3,664	10,361	2,901	5,346	6,385	23,401	127,915	151,316	1,125	3,705	19,913
South Dakota.....	8	4	241	451	223	427	394	808	4,401	5,209	7	(D)	(D)
Nebraska.....	29	13	2,146	6,998	1,733	3,871	4,604	12,138	80,225	92,363	624	1,675	5,490
Kansas.....	30	6	464	1,391	384	682	912	4,101	13,573	17,674	327	1,269	(D)
South Atlantic.....	270	65	7,981	26,242	5,394	10,733	12,930	82,720	196,317	279,038	7,350	5,812	29,067
Maryland.....	40	15	1,855	6,501	1,367	2,779	3,558	18,218	55,647	73,865	612	841	7,708
District of Columbia.....	11	4	380	1,491	240	493	699	3,200	16,442	19,642	111	261	1,469
Virginia.....	46	13	1,009	2,759	770	1,486	1,626	10,447	24,766	35,214	1,777	625	3,493
North Carolina.....	45	14	2,357	8,182	1,312	2,577	3,209	16,749	17,419	34,169	414	1,743	5,116
Georgia.....	39	14	1,622	5,113	1,141	2,389	2,620	12,920	24,321	37,242	351	1,295	5,515
Florida.....	58	5	600	1,823	452	828	995	19,495	51,743	71,238	4,012	4,212	3,593
East South Central.....	106	30	2,789	8,795	1,934	3,828	4,457	29,078	84,641	113,720	967	2,082	10,614
Kentucky.....	29	6	920	3,169	687	1,420	1,918	9,155	24,294	33,450	417	328	(D)
Tennessee.....	42	12	950	2,953	605	1,244	1,269	8,809	31,833	40,643	263	1,134	5,633
Alabama.....	28	10	766	2,272	525	939	1,013	7,546	23,052	30,599	251	561	3,230
Mississippi.....	7	2	152	400	116	224	255	3,567	5,460	9,028	35	59	(D)
West South Central.....	300	74	6,254	19,357	4,530	8,745	11,092	73,552	277,066	350,618	4,213	6,274	35,309
Arkansas.....	17	3	283	436	258	334	356	1,110	2,545	3,656	39	147	(D)
Louisiana.....	58	18	1,432	4,839	776	1,498	1,842	11,411	52,947	64,359	473	1,342	9,186
Oklahoma.....	40	8	581	1,744	469	929	1,015	5,300	16,661	21,962	182	722	(D)
Texas.....	185	45	3,957	12,337	3,026	5,982	7,877	55,730	204,910	260,640	3,517	4,063	22,501
Mountain.....	111	16	1,731	4,789	1,354	2,340	2,961	9,922	14,396	24,318	580	920	4,002
Colorado.....	46	9	619	1,918	446	872	1,101	3,793	8,831	12,624	272	544	2,584
Utah.....	14	3	189	655	134	230	302	1,475	1,613	3,089	103	138	597
Pacific.....	371	84	8,244	31,603	5,384	10,233	16,482	110,353	337,365	447,718	4,416	5,972	51,950
Washington.....	34	8	728	2,276	489	861	1,248	5,739	9,317	15,057	266	489	2,745
Oregon.....	26	8	674	2,343	473	944	1,215	6,329	23,129	29,458	179	367	2,888
California.....	311	68	6,840	26,983	4,421	8,428	14,018	98,284	304,919	403,203	3,971	5,116	46,317

Note: Detailed figures may not add to the totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>General statistics for some producing States are not shown separately in the table (see INTRODUCTION "Confidentiality of Data for Individual Companies"). Such States are shown below with the number of establishments in each State for 1954 and, in parentheses, the number of employees or the employment-size range for that State for 1954:

S.I.C. 2091, Leavening Compounds: Northeast—Massachusetts, 1 (20-99); Rhode Island, 1 (20-249); Pennsylvania, 3 (20-99); Ohio, 4 (1-19); Illinois, 4 (500-999); Michigan, 1 (1-19); Wisconsin, 3 (250-499); Minnesota, 2 (1-19); Iowa, 2 (1-19); Missouri, 2 (100-249); South—Maryland, 1 (20-99); District of Columbia, 1 (100-249); Louisiana, 2 (20-99); Texas, 1 (20-99); Pacific—Washington, 1 (20-99); California, 3 (20-99).

S.I.C. 2092, Shortening and Cooking Oils: Northeast—Massachusetts, 1 (1-19); New York, 13 (500-999); Pennsylvania, 1 (20-99); East North Central—Ohio, 3 (500-999); Indiana, 2 (250-499); Michigan, 1 (1-19); Wisconsin, 1 (1-19); South Atlantic—Maryland, 1 (1-19); Virginia, 2 (100-249); North Carolina, 2 (20-99); Florida, 2 (20-99); East South Central—Kentucky, 1 (100-249); Tennessee, 5 (1,000-2,499); Alabama, 1 (100-249); Mississippi, 1 (1-19); West South Central—Arkansas, 2 (20-99); Oklahoma, 1 (100-249).

S.I.C. 2093, Margarine: Northeast and North Central—New Jersey, 2 (100-249); Ohio, 3 (250-499); Indiana, 1 (250-499); Illinois, 3 (250-499); Michigan, 1 (100-249); Missouri, 2 (20-99); Nebraska, 1 (1-19); Kansas, 1 (20-99); South—Maryland, 1 (100-249); South Carolina, 1 (20-99); Alabama, 1 (20-99); Arkansas, 1 (20-99); Pacific—Oregon, 1 (1-19); California, 4 (100-249).

S.I.C. 2094, Corn Wet Milling: Northeast—Maine, 18 (100-249); Massachusetts, 1 (1-19); Rhode Island, 1 (1-19); New York, 2 (1-19); New Jersey, 2 (20-99); Pennsylvania, 2 (20-99); East North Central—Ohio, 4 (20-99); Indiana, 2 (1,000-2,499); Michigan, 1 (1-19); West North Central—Iowa, 4 (2,994); Missouri, 3 (1,103); South and West—North Carolina, 1 (1-19); Florida, 1 (1-19); Tennessee, 1 (1-19); Alabama, 1 (1-19); Texas, 2 (250-499); Idaho, 5 (100-249); California, 2 (20-99).

S.I.C. 2095, Flavorings: New England—Maine, 3 (20-99); New Hampshire, 1 (1-19); Vermont, 2 (1-19); Rhode Island, 8 (20-99); Connecticut, 2 (1-19); East North Central—Wisconsin, 7 (20-99); West North Central—Minnesota, 5 (20-99); Iowa, 4 (20-99); North Dakota, 1 (1-19); Nebraska, 3 (1-19); Kansas, 5 (20-99); South Atlantic—District of Columbia, 1 (1-19); North Carolina, 4 (1-19); South Carolina, 1 (1-19); Florida, 14 (20-99); East South Central—Kentucky, 2 (20-99); Alabama, 3 (20-99); Mississippi, 3 (1-19); West South Central—Arkansas, 2 (20-99); Louisiana, 8 (20-99); Oklahoma, 3 (1-19); Mountain—Colorado, 3 (20-99); Arizona, 2 (20-99); Utah, 1 (1-19); Pacific—Washington, 5 (20-99); Oregon, 5 (100-249).

S.I.C. 2097, Manufactured Ice: New England—Maine, 2 (1-19); New Hampshire, 1 (1-19); Vermont, 4 (1-19); Rhode Island, 10 (20-99); Connecticut, 14 (100-249); East North Central—Wisconsin, 7 (20-99); West North Central—Minnesota, 2 (20-99); South Dakota, 3 (1-19); South Atlantic—Delaware, 9 (20-99); Maryland, 25 (250-499); District of Columbia, 3 (100-249); Virginia, 43 (500-999); South Carolina, 45 (500-999); West South Central—Oklahoma, 72 (250-499); Texas, 228 (2,284); Mountain—Montana, 4 (20-99); Idaho, 4 (1-19); Wyoming, 3 (1-19); Utah, 4 (20-99); Nevada, 3 (20-99); Pacific—Oregon, 6 (20-99).

S.I.C. 2098, Macaroni and Spaghetti: New England—Massachusetts, 11 (250-499); Rhode Island, 3 (1-19); Connecticut, 5 (100-249); East North Central—Indiana, 1 (100-249); Michigan, 5 (100-249); Wisconsin, 2 (100-249); West North Central—Nebraska, 3 (250-499); Kansas, 1 (20-99); South and West—Maryland, 5 (20-99); District of Columbia, 1 (1-19); Virginia, 1 (1-19); Florida, 3 (20-99); Kentucky, 1 (100-249); Tennessee, 1 (100-249); Louisiana, 6 (100-249); Texas, 6 (20-99); Colorado, 1 (20-99); Arizona, 1 (1-19); Utah, 1 (20-99); Oregon, 2 (20-99).

S.I.C. 2099, Food Preparations, N.E.C.: New England—New Hampshire, 6 (20-99); Vermont, 6 (100-249); South Atlantic—West Virginia, 11 (20-99); South Carolina, 20 (20-99); Mountain—Montana, 6 (20-99); Idaho, 8 (500-999); Wyoming, 2 (1-19); New Mexico, 13 (20-99); Arizona, 19 (100-249); Nevada, 3 (1-19).

## MISCELLANEOUS FOOD PREPARATIONS

20H-9

Table 3.—DETAILED STATISTICS FOR THE UNITED STATES: 1954  
(For explanation of line captions see Introduction)

Item	Leavening compounds (S.I.C. 2091)		Shortening and cooking oils (S.I.C. 2092)		Margarine (S.I.C. 2093) all estab- lishments	Corn wet milling (S.I.C. 2094) all estab- lishments
	All estab- lish- ments	Establish- ments with 90% or more primary prod- uct spe- cialization	All estab- lish- ments	Establish- ments with 90% or more primary prod- uct spe- cialization		
Primary product specialization ratio <sup>1</sup> .....	89	xxx	85	xxx	90	91
Coverage ratio <sup>2</sup> .....	90	xxx	89	xxx	62	96
Number of establishments, total.....	43	34	102	67	33	58
With 1-19 employees.....	21	19	51	37	3	37
With 20-99 employees.....	13	11	14	11	20	9
With 100 employees and over.....	9	4	37	19	10	12
All employees:						
Number (average for year).....	2,685	1,315	9,398	5,174	2,626	13,565
Payroll.....\$1,000..	12,246	6,062	42,414	23,603	10,463	60,030
Production workers:						
Number (average for year).....	1,987	932	6,755	3,618	1,835	10,584
Man-hours.....1,000..	3,840	1,794	14,016	7,460	3,681	21,008
Wages.....\$1,000..	8,696	3,841	27,571	14,692	6,314	43,172
Value added by manufacture.....do..	45,350	22,184	175,988	114,128	42,467	176,696
Cost of materials, etc.....do..	25,834	11,704	759,347	442,048	149,876	281,746
Value of shipments.....do..	71,185	33,888	935,338	556,180	192,343	458,442
Value added by resales.....do..	321	314	1,487	759	894	1,046
Cost of products bought and resold.....do..	5,788	4,704	17,950	10,088	6,224	4,060
Sales of products bought and resold.....do..	6,110	5,019	19,437	10,848	7,118	5,106
Total inventories, beginning of year.....do..	8,468	7,183	72,183	41,322	7,467	50,851
Total inventories, end of year.....do..	8,398	3,322	78,199	49,785	7,979	54,412
Capital expenditures, new.....do..	1,604	692	10,971	8,414	1,478	16,391
Total employment, by month:						
January.....	(NA)	(NA)	9,278	(NA)	2,723	(NA)
February.....	(NA)	(NA)	9,407	(NA)	2,747	(NA)
March.....	2,706	1,328	9,514	5,249	2,669	13,531
April.....	(NA)	(NA)	9,505	(NA)	2,584	(NA)
May.....	2,712	1,316	9,330	5,134	2,644	13,458
June.....	(NA)	(NA)	9,359	(NA)	2,501	(NA)
July.....	(NA)	(NA)	9,223	(NA)	2,500	(NA)
August.....	2,671	1,287	9,176	5,066	2,520	13,575
September.....	(NA)	(NA)	9,347	(NA)	2,628	(NA)
October.....	(NA)	(NA)	9,509	(NA)	2,681	(NA)
November.....	2,652	1,330	9,571	5,247	2,671	13,696
December.....	(NA)	(NA)	9,597	(NA)	2,644	(NA)
Cost of materials, fuel, electricity and contract work, total.....\$1,000..	25,834	11,704	759,347	442,048	149,876	281,746
Materials, parts, containers, and supplies consumed.....do..	23,753	10,991	752,113	438,022	149,150	270,521
Fuels consumed, total.....do..	1,324	477	5,022	2,897	292	10,110
Bituminous coal and anthracite:						
Quantity.....1,000 short tons..	146	(NA)	220	(NA)	3	1,548
Value.....\$1,000..	912	(NA)	1,423	(NA)	32	8,232
Coke:						
Quantity.....1,000 short tons..	...	...	3	...	...	(3)
Value.....\$1,000..	...	...	50	...	...	6
Fuel oil:						
Quantity.....1,000 barrels..	106	(NA)	613	(NA)	59	66
Value.....\$1,000..	171	(NA)	1,527	(NA)	167	237
Gas:						
Quantity.....million cubic feet..	429	(NA)	9,394	(NA)	355	7,306
Value.....\$1,000..	241	(NA)	2,015	(NA)	80	1,613
Other fuels:						
Value.....do..	...	...	7	(NA)	13	22
Electric energy:						
Purchased:						
Quantity.....million kwh..	47	32	205	106	34	71
Cost.....\$1,000..	592	100	2,011	1,068	431	847
Generated.....million kwh..	23	(*)	43	35	...	626
Sold:						
Quantity.....do..	...	...	8	8	...	1
Value.....\$1,000..	...	...	79	79	...	5
Cost of contract work.....do..	165	136	201	61	3	268
Manufacturers' inventories:						
Beginning of year, total.....do..	8,468	3,078	72,183	41,322	7,467	50,851
Finished products.....do..	1,481	(*)	28,890	14,816	2,555	18,845
Work-in-process.....do..	(*)	(*)	13,944	10,356	(*)	4,354
Materials, supplies, fuel, etc.....do..	6,491	2,494	29,388	16,150	4,821	27,651
End of year, total.....do..	8,398	3,322	78,199	49,785	7,979	54,412
Finished products.....do..	1,476	(*)	31,380	19,063	3,175	19,994
Work-in-process.....do..	(*)	(*)	17,758	12,493	(*)	4,185
Materials, supplies, fuel, etc.....do..	6,470	2,723	29,060	18,228	4,709	30,233
Expenditures for plant and equipment, total.....do..	1,659	707	11,233	8,664	1,510	16,423
Capital expenditures, new.....do..	1,604	692	10,971	8,414	1,478	16,391
New structures and additions to plant.....do..	(*)	(*)	2,980	2,260	(*)	3,302
New machinery and equipment.....do..	1,408	659	7,991	6,154	1,075	13,088
Expenditures for used plant and equipment.....do..	(*)	(*)	(*)	(*)	(*)	(*)
Horsepower rating of power equipment at end of 1954:						
Horsepower of prime movers and electric motors driven by purchased energy, total.....1,000 hp..	63	22	111	63	17	225
Engines, etc. driving electric generators.....do..	16	1	12	10	(*)	176
Engines, etc. not driving electric generators.....do..	19	4	9	7	2	18
Electric motors driven by purchased energy.....do..	28	17	90	46	15	27
Electric motors driven by energy generated at the establishment.....do..	10	(*)	24	23	...	214

See footnotes at end of table.



## MANUFACTURES—INDUSTRY STATISTICS

Table 3.—DETAILED STATISTICS FOR THE UNITED STATES: 1954—Continued

Item	Flavorings (S.I.C. 2095) all estab- lishments	Manufactured ice (S.I.C. 2097) all estab- lishments	Macaroni and spaghetti (S.I.C. 2098) all estab- lishments	Food prepara- tions, n.e.c. (S.I.C. 2099) all estab- lishments
Primary product specialization ratio <sup>1</sup> .....	91	100	98	94
Coverage ratio <sup>2</sup> .....	87	97	95	86
Number of establishments, total.....	558	1,963	233	2,599
With 1-19 employees.....	449	1,711	149	1,896
With 20-99 employees.....	89	247	64	547
With 100 employees and over.....	20	5	20	156
All employees:				
Number (average for year).....	10,593	20,854	7,058	71,952
Payroll.....\$1,000..	45,060	61,811	24,278	251,440
Production workers:				
Number (average for year).....	6,543	12,880	5,276	52,761
Man-hours.....1,000..	12,402	27,975	10,216	103,702
Wages.....\$1,000..	20,308	35,593	14,465	146,907
Value added by manufacture.....do.	219,445	115,469	50,951	806,298
Cost of materials, etc.....do.	226,611	27,811	98,704	2,449,670
Value of shipments.....do.	446,056	143,280	149,656	3,255,967
Value added by resales.....do.	1,938	8,558	1,308	35,801
Cost of products bought and resold.....do.	11,439	18,836	3,866	156,692
Sales of products bought and resold.....do.	13,377	27,394	5,174	192,493
Total inventories, beginning of year.....do.	76,921	5,861	11,631	341,785
Total inventories, end of year.....do.	75,888	5,672	12,148	317,506
Capital expenditures, new.....do.	6,642	7,761	2,469	38,168
Total employment, by month:				
January.....	(NA)	17,987	(NA)	69,721
February.....	(NA)	17,955	(NA)	71,383
March.....	10,724	18,272	7,275	75,149
April.....	(NA)	19,716	(NA)	74,589
May.....	10,842	21,316	6,801	74,206
June.....	(NA)	23,816	(NA)	73,107
July.....	(NA)	26,048	(NA)	71,846
August.....	10,785	25,048	6,843	69,816
September.....	(NA)	23,118	(NA)	69,908
October.....	(NA)	20,576	(NA)	71,199
November.....	10,021	18,778	7,314	71,593
December.....	(NA)	17,618	(NA)	70,904
Cost of materials, fuel, electricity and contract work, total.....\$1,000..	226,611	27,811	98,704	2,449,670
Materials, parts, containers, and supplies consumed.....do.	223,345	12,124	95,871	2,431,374
Fuels consumed, total.....do.	1,061	1,799	646	7,645
Bituminous coal and anthracite:				
Quantity.....1,000 short tons..	26	32	15	152
Value.....\$1,000..	277	311	138	1,358
Coke:				
Quantity.....1,000 short tons..	2	1	( <sup>3</sup> )	9
Value.....\$1,000..	13	21	1	66
Fuel oil:				
Quantity.....1,000 barrels..	119	163	110	775
Value.....\$1,000..	392	725	351	2,953
Gas:				
Quantity.....million cubic feet..	1,289	3,255	457	10,379
Value.....\$1,000..	346	521	110	2,758
Other fuels:				
Value.....do.	33	221	46	510
Electric energy:				
Purchased:				
Quantity.....million kwh..	74	1,051	81	441
Cost.....\$1,000..	980	13,358	1,240	6,571
Generated.....million kwh..	2	9	( <sup>4</sup> )	3
Cost of contract work.....\$1,000..	1,225	530	947	4,080
Manufacturers' inventories:				
Beginning of year, total.....do.	76,921	5,861	11,631	341,785
Finished products.....do.	20,081	3,424	4,275	117,018
Work-in-process.....do.	3,107	541	597	12,070
Materials, supplies, fuel, etc.....do.	53,731	1,895	6,757	212,696
End of year, total.....do.	75,888	5,672	12,148	317,506
Finished product.....do.	20,020	3,237	4,547	114,382
Work-in-process.....do.	3,541	534	634	11,935
Materials, supplies, fuel, etc.....do.	52,326	1,899	6,966	191,189
Expenditures for plant and equipment, total.....do.	7,145	8,524	2,566	39,149
Capital expenditures, new.....do.	6,642	7,761	2,469	38,168
New structures and additions to plant.....do.	2,065	3,290	510	10,045
New machinery and equipment.....do.	4,577	4,471	1,959	28,123
Expenditures for used plant and equipment.....do.	503	763	( <sup>5</sup> )	981
Horsepower rating of power equipment at end of 1954:				
Horsepower of prime movers and electric motors driven by purchased energy, total.....1,000 hp..	36	452	27	177
Engines, etc. driving electric generators.....do.	3	12	( <sup>6</sup> )	2
Engines, etc. not driving electric generators.....do.	3	33	( <sup>6</sup> )	12
Electric motors driven by purchased energy.....do.	30	407	27	163
Electric motors driven by energy generated at the establishment.....do.	3	3	( <sup>6</sup> )	2

Note: Detailed figures may not add to the totals because of independent rounding.

NA Not available. xxx Not applicable. <sup>1</sup>The specialization ratio compares the given industry's shipments of its primary products to its total shipments of all products. (The primary products are listed in Tables 5B and 6A.) Columns containing totals for establishments with 90% or more primary product specialization are shown only for those industries having a primary product specialization of less than 90%. <sup>2</sup>The coverage ratio measures the extent to which the total shipments of products primary to the given industry are shipped by establishments classified in that industry. <sup>3</sup>Less than 500 tons. <sup>4</sup>Less than 500 thousand kwh. <sup>5</sup>Less than \$500 thousand. <sup>6</sup>Less than 500 hp.

## MISCELLANEOUS FOOD PREPARATIONS

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Table 4.--SELECTED STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR THE UNITED STATES: 1954

(Value figures in thousands of dollars. For explanation of line captions see Introduction. Data which cannot be shown without disclosing information for individual companies have been combined with figures for other size classes. A (D) appears in the column where the figure has been omitted and the combined figure is underlined and shown in the size-class to the left)

Ind. code	Industry and item	Total, all estab- lish- ments	Establishments with an average of--									
			1-4 em- ployees	5-9 em- ployees	10-19 em- ployees	20-49 em- ployees	50-99 em- ployees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
2091	Leavening compounds:											
	Number of establishments..	43	10	7	4	7	6	7	2	...	...	...
	Number of employees.....	2,685	29	46	52	228	466	<u>1,863</u>	(D)	...	...	...
	Value added by manufacture	<u>45,350</u>	499	425	644	2,437	7,453	<u>33,894</u>	(D)	...	...	...
2092	Shortening and cooking oils:											
	Number of establishments..	102	26	13	12	4	10	28	7	2	...	...
	Number of employees.....	9,398	58	101	299	(D)	733	4,644	<u>3,562</u>	(D)	...	...
	Value added by manufacture	<u>175,988</u>	475	857	<u>4,490</u>	(D)	16,889	95,583	<u>57,691</u>	(D)	...	...
2093	Margarine:											
	Number of establishments..	33	2	...	1	10	10	9	1	...	...	...
	Number of employees.....	2,626	<u>386</u>	...	(D)	(D)	664	<u>1,575</u>	(D)	...	...	...
	Value added by manufacture	<u>42,467</u>	<u>5,444</u>	...	(D)	(D)	8,433	<u>28,589</u>	(D)	...	...	...
2094	Corn wet milling:											
	Number of establishments..	58	15	11	11	6	3	...	3	4	4	1
	Number of employees.....	13,565	46	79	160	169	213	...	1,049	2,749	<u>9,098</u>	(D)
	Value added by manufacture	<u>176,696</u>	412	731	1,264	2,039	2,772	...	17,889	38,198	<u>113,388</u>	(D)
2095	Flavorings:											
	Number of establishments..	558	280	99	70	59	30	16	4	...	...	...
	Number of employees.....	10,593	676	685	1,006	1,831	2,199	2,529	1,666	...	...	...
	Value added by manufacture	<u>219,445</u>	4,741	8,845	13,210	33,023	89,775	29,222	40,627	...	...	...
2097	Manufactured ice:											
	Number of establishments..	1,963	829	527	355	207	40	3	2	...	...	...
	Number of employees.....	20,854	2,282	3,776	4,953	6,018	2,738	<u>1,084</u>	(D)	...	...	...
	Value added by manufacture	<u>115,469</u>	12,184	19,276	28,556	37,051	11,565	<u>6,835</u>	(D)	...	...	...
2098	Macaroni and spaghetti:											
	Number of establishments..	233	86	40	23	41	23	17	3	...	...	...
	Number of employees.....	7,058	208	281	306	1,343	1,642	2,407	867	...	...	...
	Value added by manufacture	<u>50,951</u>	1,177	1,505	1,723	7,984	11,336	18,415	8,809	...	...	...
2099	Food preparations, nec:											
	Number of establishments..	2,599	1,029	476	391	384	163	115	28	11	2	...
	Number of employees.....	71,952	2,489	3,374	5,579	12,195	11,408	16,702	9,592	<u>10,611</u>	(D)	...
	Value added by manufacture	<u>806,298</u>	14,664	20,931	43,772	91,703	99,045	242,626	147,397	<u>146,158</u>	(D)	...

Note: Detailed figures may not add to the totals because of independent rounding.

## MANUFACTURES--INDUSTRY STATISTICS

Table 5A.--INDUSTRY-PRODUCT ANALYSIS--SUMMARY OF INDUSTRY AND PRIMARY PRODUCT SHIPMENTS, SPECIALIZATION RATIOS AND COVERAGE RATIOS FOR THE UNITED STATES: 1954 AND 1947

Industry code	Industry and census year	Value of shipments					Value of primary products shipped			
		Total	Primary products	Secondary products	Miscellaneous receipts	Primary product specialization ratio <sup>1</sup>	Total (made in all industries)	Made in this industry	Made in other industries	Coverage ratio <sup>2</sup>
		(\$1,000) (A)	(\$1,000) (B)	(\$1,000) (C)	(\$1,000) (D)	Col. B Col. B+C (Percent) (E)	(\$1,000) (F)	(\$1,000) (G)	(\$1,000) (H)	Col. G Col. F (Percent) (I)
2091	Leavening compounds.....1954.. 1947..	71,185 72,295	63,173 (D)	7,962 (D)	50 (D)	89 (D)	70,264 63,638	63,173 (D)	7,091 (D)	90 (D)
2092	Shortening and cooking oils..1954.. 1947..	935,338 884,713	794,558 714,155	138,999 152,826	1,781 17,732	85 82	888,258 744,794	794,558 714,155	93,700 30,639	89 96
2093	Margarine.....1954.. 1947..	192,343 214,598	172,182 172,823	20,161 41,775	... ...	90 81	278,484 237,092	172,182 172,823	106,302 64,269	62 73
2094	Corn wet milling.....1954.. 1947..	458,442 459,978	418,972 405,514	39,100 54,464	370 ...	91 88	435,966 421,795	418,972 405,514	16,994 16,281	96 96
2095	Flavorings.....1954.. 1947..	446,056 313,573	405,942 290,825	38,429 20,885	1,685 1,863	91 93	464,166 326,953	405,942 290,825	58,224 36,128	87 89
2097	Manufactured ice.....1954.. 1947..	143,280 273,415	128,472 259,477	559 1,177	14,249 12,761	100 100	132,979 264,326	128,472 259,477	4,507 4,849	97 98
2098	Macaroni and spaghetti.....1954.. 1947..	149,656 112,094	143,684 109,967	2,558 (D)	3,414 (D)	98 98	151,136 111,187	143,684 109,967	7,452 1,220	95 99
2099	Food preparations, n.e.c.....1954.. 1947..	3,255,967 1,600,903	3,057,302 1,425,560	168,898 127,869	29,767 47,474	94 92	3,548,761 1,792,508	3,057,302 1,425,560	491,459 366,948	86 80

D Withheld to avoid disclosing information for individual companies. <sup>1</sup>The specialization ratio compares the given industry's shipments of its primary products to its total shipments of all products. (The primary products are listed in Tables 5B and 6A; the first 4-digits of the product code represent the industry code to which the product is primary.) <sup>2</sup>The coverage ratio measures the extent to which the total shipments of products primary to the given industry are shipped by establishments classified in that industry. <sup>3</sup>Percentage of value of primary products to total shipments, including primary and secondary products, and miscellaneous receipts.



## MISCELLANEOUS FOOD PREPARATIONS

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Table 5B.—INDUSTRY-PRODUCT ANALYSIS—SHIPMENTS BY PRODUCT CLASS AND INDUSTRY, FOR THE UNITED STATES: 1954

(In thousands of dollars. The first column shows the total value of shipments of the specified industry divided among: (a) products classified in the industry (primary products), (b) products classified in other industries (secondary products) and (c) miscellaneous receipts. The value of shipments of the primary products of the specified industry reported by establishments not classified in that industry is shown under the caption "Other Industries." Industries accounting for significant amounts of the primary products listed are shown in separate columns provided that the figures for individual companies are not thereby disclosed. The last column shows the total value of shipments of the primary products of the industry by all manufacturing industries.)

Prod. class code	Leavening compounds industry	Leavening compounds (S.I.C. 2091)	Other industries	All industries		
20911 20912	Total shipments and receipts of the industry.....	71,185	xxx	xxx		
	Primary products.....	63,173	7,091	70,264		
	Baking powder.....	7,877	3,826	11,703		
	Yeast.....	55,296	3,265	58,561		
	Secondary products.....	7,962	xxx	xxx		
	Miscellaneous receipts.....	50	xxx	xxx		
Prod. class code	Shortening and cooking oils industry	Shortening and cooking oils (S.I.C. 2092)	Other industries	All industries		
20920 20354 20930 28810 28840	Value of shipments.....	935,338	xxx	xxx		
	Shortening and salad oils, except margarine.....	794,558	<sup>1</sup> 93,700	888,258		
	Secondary products.....	138,999	xxx	xxx		
	Salad dressings, including mayonnaise.....	3,502	xxx	xxx		
	Margarine.....	78,059	xxx	xxx		
	Cottonseed oil mill products.....	21,501	xxx	xxx		
	Other vegetable oil mill products.....	11,289	xxx	xxx		
	Other secondary products.....	24,648	xxx	xxx		
	Miscellaneous receipts.....	1,781	xxx	xxx		
	Commission work on materials owned by others.....	1,202	xxx	xxx		
	Other miscellaneous receipts.....	579	xxx	xxx		
Prod. class code	Margarine industry	Margarine (S.I.C. 2093)	Other industries	All industries		
20930 20354 20920	Total shipments and receipts of the industry.....	192,343	xxx	xxx		
	Margarine.....	172,182	<sup>2</sup> 106,302	278,484		
	Secondary products.....	20,161	xxx	xxx		
	Salad dressings, including mayonnaise.....	6,426	xxx	xxx		
	Shortening and salad oils, excluding margarine.....	8,959	xxx	xxx		
	Other secondary products.....	4,776	xxx	xxx		
Prod. class code	Corn wet milling industry	Corn wet milling (S.I.C. 2094)	Other industries	All industries		
20941 20942 20943 20944 20945 20993	Total shipments and receipts of the industry.....	458,442	xxx	xxx		
	Primary products.....	418,972	16,994	435,966		
	Corn sirup, sugar and starches.....	273,226	...	273,226		
	Other starch, including reprocessed.....	21,478	11,507	32,985		
	Dextrin.....	11,967	601	12,568		
	Corn oil.....	50,284	4,886	55,170		
	Wet process corn byproducts.....	62,017	...	62,017		
	Secondary products.....	39,100	xxx	xxx		
	Sweeteening sirups and molasses, mixed or blended.....	26,276	xxx	xxx		
	Other secondary products.....	<sup>3</sup> 12,824	xxx	xxx		
	Miscellaneous receipts.....	370	xxx	xxx		
	Prod. class code	Flavorings industry	Flavorings (S.I.C. 2095)	Food preparations, n.e.c. (S.I.C. 2099)	Other industries	All industries
	20951 20952 20953 20954 20950 20334 20338 20716 20722 20810 20997	Total shipments and receipts of the industry.....	446,056	xxx	xxx	xxx
Primary products.....		405,942	14,299	43,925	464,166	
Flavoring extracts, emulsions, and other flavors.....		49,745	9,878	5,559	65,182	
Beverage bases, except sirups.....		37,800	178	352	38,330	
Flavoring sirups, soft drinks.....		187,270	(4)	<sup>5</sup> 6,835	194,177	
Other flavoring agents, except chocolate sirups.....		125,292	4,070	<sup>6</sup> 30,156	159,518	
Flavorings, not specified by kind.....		5,835	101	1,323	6,959	
Secondary products.....		38,429	xxx	xxx	xxx	
Canned fruit juices.....		4,816	xxx	xxx	xxx	
Jams, jellies, and preserves.....		2,228	xxx	xxx	xxx	
Other candy and confectionery.....		2,385	xxx	xxx	xxx	
Chocolate and cocoa products.....		10,650	xxx	xxx	xxx	
Bottled soft drinks and carbonated waters.....		3,043	xxx	xxx	xxx	
Other food preparations, including mincemeat.....		3,496	xxx	xxx	xxx	
Other secondary products.....		11,811	xxx	xxx	xxx	
Miscellaneous receipts.....		1,685	xxx	xxx	xxx	

See footnotes at end of table.

## MANUFACTURES--INDUSTRY STATISTICS

Table 5B.--INDUSTRY-PRODUCT ANALYSIS--SHIPMENTS BY PRODUCT CLASS AND INDUSTRY, FOR THE UNITED STATES: 1954--Continued

Prod. class code	Manufactured ice industry	Manufactured ice (S.I.C. 2097)	Other industries	All industries		
20970	Total shipments and receipts of the industry.....	143,280	xxx	xxx		
	Manufactured ice.....	128,472	4,507	132,979		
	Secondary products.....	559	xxx	xxx		
	Miscellaneous receipts.....	14,249	xxx	xxx		
	Cold storage.....	11,221	xxx	xxx		
	Other miscellaneous receipts.....	3,028	xxx	xxx		
Prod. class code	Macaroni and spaghetti industry	Macaroni and spaghetti (S.I.C. 2098)	Other industries	All industries		
20980	Total shipments and receipts of the industry.....	149,656	xxx	xxx		
	Macaroni and noodle products (except canned).....	143,684	7,452	151,136		
	Secondary products.....	2,558	xxx	xxx		
	Miscellaneous receipts.....	3,414	xxx	xxx		
	Resales <sup>7</sup> .....	2,215	xxx	xxx		
	Other miscellaneous receipts.....	1,199	xxx	xxx		
Prod. class code	Food preparations, n.e.c. industry	Food preparations, n.e.c. (S.I.C. 2099)	Canned fruits and vegetables (S.I.C. 2033)	Other industries	All industries	
20990	Total shipments and receipts of the industry.....	3,255,967	xxx	xxx	xxx	
	Primary products.....	3,057,302	32,672	458,787	3,548,761	
	Desserts, ready-to-mix, except ice cream mix.....	117,282	973	4,861	123,116	
	Potato chips.....	156,025	207	89,540	165,772	
	Sweetening sirups and molasses, mixed or blended.....	45,891	1,905	930,361	78,157	
	Eggs, liquid, dried, and frozen.....	124,057	292	1023,685	148,034	
	Roasted coffee.....	1,882,806	3,238	692	1,886,736	
	Vinegar and cider.....	21,521	11,457	118,517	41,495	
	Other food preparations, including mincemeat.....	656,262	14,378	1271,197	741,837	
	Other chocolate and cocoa products.....	124,853	(4)	14309,658	334,562	
	Miscellaneous foods, not specified by kind.....	28,605	171	276	29,052	
	Secondary products.....	168,898	xxx	xxx	xxx	
	20151	Chickens and fowl.....	4,885	xxx	xxx	xxx
	20153	Dressed turkeys.....	4,478	xxx	xxx	xxx
2023-	Concentrated milk.....	5,183	xxx	xxx	xxx	
20337	Canned soups and poultry products.....	11,369	xxx	xxx	xxx	
20338	Jams, jellies, and preserves.....	10,233	xxx	xxx	xxx	
20353	Mustard and other meat sauces, except tomato.....	8,773	xxx	xxx	xxx	
20354	Salad dressings, including mayonnaise.....	12,291	xxx	xxx	xxx	
20510	Bread and related products.....	6,801	xxx	xxx	xxx	
20520	Biscuit, crackers, and pretzels.....	9,257	xxx	xxx	xxx	
20715	Salted, roasted, and blanched nuts.....	5,421	xxx	xxx	xxx	
20716	Other candy and confectionery.....	9,920	xxx	xxx	xxx	
20951	Flavoring extracts, emulsions, and other flavors.....	9,878	xxx	xxx	xxx	
20954	Other flavoring agents, except chocolate syrup.....	4,070	xxx	xxx	xxx	
	Other secondary products.....	1566,339	xxx	xxx	xxx	
	Miscellaneous receipts.....	29,767	xxx	xxx	xxx	
	Commission work on materials owned by others.....	5,272	xxx	xxx	xxx	
	Resales <sup>16</sup> .....	10,591	xxx	xxx	xxx	
	Shell egg sales <sup>16</sup> .....	10,536	xxx	xxx	xxx	
	Other miscellaneous receipts.....	3,368	xxx	xxx	xxx	

xxx Not applicable.

<sup>1</sup>Includes the following: \$19,410 thousand shipped by plants classified in Industry 2011, Meat Packing Plants; \$15,710 thousand shipped by plants classified in Industry 2035, Pickles and Sauces; \$8,959 thousand shipped by plants classified in Industry 2093, Margarine; and \$20,944 thousand shipped by plants classified in Industry 2884, Vegetable Oil Mills, N.E.C.

<sup>2</sup>Includes the following: \$78,059 thousand shipped by plants classified in Industry 2092, Shortening and Cooking Oils.

<sup>3</sup>Of this figure, 50 percent consists of the following product classes: Desserts, ready to mix, code 20991; Synthetic resins, except protective coating, code 28235; Other synthetic organic chemicals, code 28294.

<sup>4</sup>Less than \$100 thousand.

<sup>5</sup>Includes \$5,946 thousand shipped by plants classified in Industry 2081, Bottled Soft Drinks.

<sup>6</sup>Includes \$4,084 thousand shipped by plants classified in Industry 2081, Bottled Soft Drinks.

<sup>7</sup>Represents resales for which the cost of goods sold was not reported separately; this figure is not included in the "resales" item in Table 3.

<sup>8</sup>Includes \$7,709 thousand shipped by plants classified in Industry 2051, Bread and Related Products.

<sup>9</sup>Includes \$3,369 thousand shipped by plants classified in Industry 2035, Pickles and Sauces.

<sup>10</sup>Includes the following: \$17,805 thousand shipped by plants classified in Industry 2015, Poultry Dressing Plants and \$5,357 thousand shipped by plants classified in Industry 2021, Creamery Butter.

<sup>11</sup>Includes \$4,620 thousand shipped by plants classified in Industry 2035, Pickles and Sauces.

<sup>12</sup>Includes the following: \$6,584 thousand shipped by plants classified in Industry 2015, Poultry dressing plants; \$10,121 thousand shipped by plants classified in Industry 2035, Pickles and Sauces; \$8,560 thousand shipped by plants classified in Industry 2037, Frozen Fruits and Vegetables; \$4,238 thousand shipped by plants classified in Industry 2051, Bread and Related Products; \$13,873 thousand shipped by plants classified in Industry 2071, Confectionery products; \$2,240 thousand shipped by plants classified in Industry 2072, Chocolate and Cocoa Products; and \$3,496 thousand shipped by plants classified in Industry 2095, Flavorings.

<sup>13</sup>Product class 20722, chocolate and cocoa products (except coatings) is treated as "primary" both to Industry 2072, Chocolate and Cocoa Products, and Industry 2099, Food Preparations, N.E.C. Establishments primarily engaged in making these chocolate and cocoa products were classified in Industry 2099 if the products were made from purchased cocoa powder and in Industry 2072 if made from cocoa beans. Detailed statistics on the shipments of chocolate and cocoa products are shown in Bulletin MC-20F, Sugar, Confectionery and Related Products.

<sup>14</sup>Includes the following: \$4,027 thousand shipped by plants included in Industry 2071, Confectionery products; \$293,038 thousand shipped by plants included in Industry 2072, Chocolate and Cocoa products and \$10,650 thousand shipped by plants included in Industry 2095, Flavoring.

<sup>15</sup>Of this figure, 16 percent consists of the following product classes: Frozen vegetables, product code 20372; Other industrial organic chemicals, product code 28296.

<sup>16</sup>Represents resales for which cost of goods sold was not reported separately; this figure not included in "resales" item in Table 3.

## MISCELLANEOUS FOOD PREPARATIONS

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Table 6A.--QUANTITY AND VALUE OF PRODUCTS SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, FOR THE UNITED STATES: 1954 AND 1947

Product code	Product	Unit of quantity	Total shipments including interplant transfers					
			1954		1947			
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
2091----	Baking powder and yeast, total.....	.....	xxx	70,264	xxx	63,638		
20911	Baking powder <sup>1</sup> .....	Thousand pounds	79,187	11,703	(NA)	13,341		
2091111	Packed in consumer sizes (less than 5 lbs.).....	.....do.....	46,956	7,513	86,000	10,272		
2091115	Packed in commercial sizes (5 lbs. and over).....	.....do.....	32,231	4,190	23,500	2,330		
2091100	Container size not specified.....	.....	xxx	xxx	(NA)	739		
20912	Yeast.....	.....	xxx	58,561	xxx	50,297		
2091211	Compressed yeast:							
2091215	Consumer sizes (2 oz. and under)	Thousand pounds	7,432	4,090	2270,104	43,884		
2091231	Commercial sizes.....	.....do.....	258,433	38,765				
2091251	Active dry yeast.....	Thousand pounds dry basis....	11,408	9,583				
2091251	Brewers' yeast and primary-grown yeast (torule types) for nutritional and feed purposes.....	.....do.....	35,591	3,544	37,076	4,336		
2091271	Extracts and other yeast products..	Thousand pounds	6,034	2,579	9,150	2,077		
1954								
			Total shipments including interplant transfers		Commercial shipments		Interplant transfers only	
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
2092----	Shortening and cooking oils, total.....	.....	xxx	888,258	xxx	790,765	xxx	97,493
2092011	Shortenings:							
2092015	Made of mixed animal and/or vegetable oils (standard).....	Thousand pounds	558,565	112,159	542,027	109,091	16,538	3,068
2092021	Made solely of hydrogenated vegetable oils.....	.....do.....	1,471,739	338,534	1,413,551	328,094	58,188	10,440
2092031	Mono- and di-glycerides.....	.....do.....	22,605	6,709	20,817	6,205	1,788	504
2092041	Olive oil.....	.....do.....	1,994	681	1,994	681	...	...
2092043	Hydrogenated oils - edible:							
2092051	Vegetable.....	.....do.....	1,114,510	193,580	786,987	138,720	327,523	54,860
2092071	Animal.....	.....do.....	43,617	7,720	41,185	7,522	2,432	198
2092051	Other salad or cooking oils (refined oils, bleached, deodorized, and/or winterized).....	.....do.....	1,182,508	218,014	1,039,750	193,973	142,758	24,041
2092071	Vegetable oil winter stearin.....	.....do.....	72,058	10,861	43,856	6,479	28,202	4,382
2093----	Margarine.....	.....	xxx	278,484	xxx	275,555	xxx	2,929
2093011	Sold in packages of 1 lb. and under...	Thousand pounds	1,269,909	262,271	1,257,643	259,897	12,286	2,374
2093019	Other.....	.....do.....	75,536	16,213	72,391	15,658	3,145	555
1947								
			Total shipments including interplant transfers		Commercial shipments		Interplant transfers only	
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
2094----	Corn wet milling products, total.....	.....	xxx	435,966	xxx	421,795		
20941	Corn sirup, sugar and starches.....	.....	xxx	273,226	xxx	228,388		
2094111	Corn sirup, unmixed (in containers of over 10 pounds).....	Thousand pounds	1,370,360	75,670	41,604,251	477,102		
2094115	Corn sirup, unmixed (in containers of 10 pounds or less).....	.....do.....	...	...				
2094121	Corn sugar:							
2094125	Crude (70°, 80°, pressed).....	.....do.....	739,126	49,914	113,111	5,897		
2094131	Refined (hydrous and anhydrous).....	.....do.....					670,864	47,194
2094133	Corn starch:							
2094181	In packages larger than 5 pounds	.....do.....	1,784,636	117,786	1,433,116	82,545		
	In packages of 5 pounds or less.	.....do.....	166,212	22,962	185,836	15,650		
	Corn sirup solids.....	.....do.....	87,144	6,894	(4)	(4)		

See footnotes at end of table.



## MANUFACTURES—INDUSTRY STATISTICS

Table 6A.—QUANTITY AND VALUE OF PRODUCTS SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, FOR THE UNITED STATES: 1954 AND 1947—Continued

Product code	Product	Unit of quantity	Total shipments including interplant transfers			
			1954		1947	
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
2094---	Corn wet milling products—Continued					
20942	Other starch, including reprocessed.....	.....	xxx	32,985	xxx	17,669
2094211	Potato, Irish.....	Thousand pounds.	85,351	5,763	62,383	4,629
2094219	Other (wheat, milo, rice, etc.).....	.....do.....	190,575	12,578	38,755	2,759
	Starch reprocessed from purchased stock:					
2094221	In packages larger than 5 pounds.....	.....do.....	144,990	14,644	105,729	10,281
2094225	In packages of 5 pounds or less.....	.....do.....				
20943	Dextrin.....	.....do.....	157,995	12,568	xxx	14,179
2094311	Corn.....	.....do.....	157,995	12,568	190,005	14,179
2094315	Tapioca and other.....	.....do.....				
20944	Corn oil.....	.....	xxx	55,170	xxx	89,516
2094411	Crude.....	Thousand pounds.	(5)	55,170	152,556	31,175
2094415	Refined.....	.....do.....			190,906	58,341
20945	Wet process, corn byproduct.....	.....	xxx	62,017	xxx	72,043
2094511	Steep water concentrate (50% solids basis).....	Thousand pounds.	77,863	2,447	(6)	(6)
2094521	Hydrol (26% moisture basis).....	.....do.....	(7)	(7)	228,312	5,354
2094531	Corn gluten feed.....	.....do.....	1,341,527	34,235	1,724,281	50,387
2094541	Corn gluten meal.....	.....do.....	494,647	19,627	270,161	10,378
2094551	Corn oil cake and meal.....	.....do.....	92,377	2,542	125,971	3,957
2094598	Other wet process corn byproducts.....	.....do.....	(NA)	73,166	614,515	61,967
2095---	Flavorings, total.....	.....	xxx	464,166	xxx	326,953
20951	Flavoring extracts, emulsions, and other liquid flavors.....	.....	xxx	65,182	xxx	39,461
	Natural or true:					
2095111	In containers of 8 oz. or less.....	Thousand gallons	1,522	16,406	986	10,588
2095115	In containers of more than 8 oz.....	.....do.....	1,976	15,982	1,338	12,209
	Imitation:					
2095151	In containers of 8 oz. or less.....	.....do.....	926	4,591	936	4,780
2095155	In containers of more than 8 oz.....	.....do.....	(NA)	21,089	1,692	10,984
2095100	Flavoring extracts, emulsions, and other liquid flavors, not specified by kind.....	.....	xxx	7,114	xxx	900
2095211	Beverage bases, excluding sirups and concentrates fruit juices.	Thousand gallons	12,905	38,330	10,142	48,488
2095311	Flavoring sirups, for use by soft drink bottlers.....	.....do.....	204,461	194,177	(8)	(8)
20954	Other flavoring agents, except chocolate.....	.....	xxx	159,518	xxx	223,704
2095411	Caramel sirups.....	Thousand gallons	1,326	1,361	(NA)	(NA)
2095421	Flavoring concentrates, except beverage bases.....	.....do.....	7,147	20,240	(NA)	6,231
2095431	Flavoring powders.....	Thousand pounds.	26,924	11,843	22,874	9,757
2095441	Flavoring pastes.....	.....do.....	36,140	8,071	4,418	1,947
2095453	Flavoring sirups, not elsewhere classified, for fountain, ice cream, and home beverage use.....	Thousand gallons	41,353	67,601	8116,722	8141,104
2095461	Fruit, crushed or whole for fountain and ice cream use.....	.....do.....	4,590	15,981	3,636	13,206
2095471	Food colorings.....	.....	xxx	6,285	xxx	6,783
2095481	Concentrated fruit juice products (not frozen) <sup>9</sup> .....	Thousand gallons	8,593	23,957	6,378	16,697
2095400	Other flavoring agents, except chocolate, not specified by kind.....	.....	xxx	4,179	xxx	27,979
2095000	Flavorings, not specified by kind.....	.....	xxx	6,959	xxx	15,300
2097---	Manufactured ice, total.....	.....	xxx	132,979	xxx	264,326
2097011	Can or block ice.....	Thousand tons...	14,911	90,506	39,967	220,582
2097051	Cubed, crushed, or other processed ice.....	.....do.....	1,453	18,412	1,782	17,593
2097000	Manufactured ice, not specified by kind.....	.....do.....	xxx	24,061	xxx	26,151
2098---	Macaroni and noodles, total.....	.....	xxx	151,136	xxx	111,187
2098011	Macaroni spaghetti, vermicelli and other macaroni products.....	Thousand pounds.	733,219	113,792	692,891	85,805
2098051	Noodles.....	.....do.....	141,727	32,205	125,484	24,108
2098000	Macaroni and noodles, not specified by kind.....	.....do.....	xxx	5,139	xxx	1,274
2099---	Food preparations, not elsewhere classified, total.....	.....	xxx	3,548,761	xxx	1,792,508
20722	Chocolate and cocoa products, except coatings, total.....	.....				
20991	Desserts (ready-to-mix), except ice cream mix.....	.....	xxx	123,116	xxx	79,638
2099111	Corn starch base.....	Thousand pounds.	126,309	36,377	132,486	30,257
2099151	Gelatin base.....	.....do.....	185,733	64,821	142,647	44,568
2099198	Other.....	.....do.....	68,924	21,918	16,435	7,813
2099211	Potato chips.....	.....do.....	298,151	165,772	155,983	77,221
20993	Sweetening sirups and molasses, mixed or blended.....	.....	xxx	78,157	xxx	91,491
2099311	Containing corn sirup.....	Thousand pounds.	481,547	46,302	788,934	65,096
2099351	Not containing corn sirup.....	.....do.....	234,227	31,855	264,363	26,395

See footnotes at end of table.

## MISCELLANEOUS FOOD PREPARATIONS

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Table 6A.--QUANTITY AND VALUE OF PRODUCTS SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, FOR THE UNITED STATES: 1954 AND 1947--Continued

Product code	Product	Unit of quantity	Total shipments including interplant transfers			
			1954		1947	
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
2099---	Food preparations, not elsewhere classified--Continued					
20994	Eggs, liquid, dried and frozen.....		xxx	148,034	xxx	236,758
	Eggs, dried:					
2099411	Whites.....	Thousand pounds.	8,145	14,448	1,582	2,846
2099413	Yolks.....	..do.....	9,872	11,397	4,192	4,735
2099415	Whole.....	..do.....	4,628	4,876	65,493	82,584
2099417	Mixed.....	..do.....	3,056	3,207	(NA)	(NA)
	Eggs, frozen or liquid:					
2099451	Whites.....	..do.....	107,176	20,353	93,751	26,181
2099453	Yolks.....	..do.....	78,103	32,527	62,058	27,177
2099455	Whole.....	..do.....	90,537	26,565	271,177	90,990
2099457	Mixed.....	..do.....	90,095	30,884	(NA)	(NA)
2099400	Liquid, dried and frozen eggs, not specified by kind.....		xxx	3,777	xxx	2,245
20995	Roasted coffee.....		xxx	1,886,736	xxx	755,125
2099511	Whole bean.....	Thousand pounds.	358,349	317,380	1,865,799	755,125
2099515	Ground.....	..do.....	1,254,549	1,242,279		
	Concentrated coffee:					
	Liquid and frozen:					
2099523	Pure coffee extract.....	Thousand gallons	367	3,114	(NA)	(NA)
	Powdered:					
2099533	Pure coffee extract.....	Thousand pounds.	74,990	318,859	(NA)	(NA)
2099535	Containing carbohydrates.....	..do.....	1,467	5,104	(NA)	(NA)
20996	Vinegar and cider.....		xxx	41,495	xxx	21,116
2099611	Cider.....	Thousand gallons	12,070	5,739	11,629	3,262
2099651	Vinegar, fermented (40 grain or equivalent).....	..do.....	43,862	15,319	39,850	8,258
2099655	Vinegar, distilled (100 grain or equivalent).....	..do.....	64,990	13,645	40,899	8,151
2099657	Vinegar stock.....	..do.....	19,202	3,727	7,948	966
2099600	Vinegar and cider, not specified by kind.....		xxx	3,065	xxx	479
20997	Food preparations, not elsewhere classified, total.....		xxx	741,837	xxx	302,073
2099711	Coconut, desiccated or shredded.....	Thousand pounds.	54,396	15,011	32,165	12,580
2099721	"Health foods".....		xxx	3,615	xxx	(10)
2099725	Blended honey.....	Thousand pounds.	10,144	1,853	xxx	(10)
2099731	Ice cream cones and cups.....	Thousand.....	2,970,696	17,964	3,194,000	13,071
	Ground spices:					
2099735	Pepper, white and black.....	Thousand pounds.	20,683	29,852	xxx	45,805
2099737	Other ground spices.....		xxx	56,561		
2099741	Mince meat.....	Thousand pounds.	26,539	7,549	28,437	5,413
2099745	Peanut butter.....	..do.....	270,646	96,161	194,929	53,657
2099751	Pectin (100 grade, dry basis).....	..do.....	7,933	5,940	10,557	7,773
2099755	Maple sirup, pure.....	..do.....	(NA)	2,718	411	2,025
2099761	Corn chips.....	..do.....	38,978	17,562	17,719	7,812
	Perishable prepared foods sold in bulk or packaged (not frozen):					
2099763	Salads.....		xxx	7,861	xxx	(10)
2099765	Sandwiches.....	Thousand dozens.	42,937	25,458		
2099767	Julienne style potatoes (including french fried).....	Thousand pounds.	10,021	4,226		
2099768	Popcorn and other cooked foods.....		xxx	43,258		
2099771	Frozen Julienne style potatoes (including french fried).....	Thousand pounds.	569,539	120,317	(NA)	(NA)
2099775	Frozen prepared foods, n.e.c. <sup>11</sup> .....	..do.....	103,773	105,912		
2099781	Tea, packaged and blended.....					
2099798	Other food preparations, not elsewhere classified, or not specified by kind.....		xxx	180,019	xxx	10153,937
2099700						
2099000	Miscellaneous foods, not specified by kind.....		xxx	29,052	xxx	28,371
20722	Chocolate and cocoa products (except coatings) <sup>13</sup> .....		xxx	334,562	xxx	198,715

xxx Not applicable.

NA Not available.

<sup>1</sup>Does not include substantial quantities of baking powder manufactured by wholesale grocers classified in S.I.C. Industry Group 504, Groceries and Food Specialties; no statistics were obtained in the 1954 Censuses on the amount of baking powder manufactured in such establishments.<sup>2</sup>Quantity of active dry yeast reported was converted to compressed yeast equivalent at the rate of one pound of dry yeast to two pounds of compressed yeast.<sup>3</sup>Includes a small amount of inedible hydrogenated oil.<sup>4</sup>Code 2094181 has been combined with codes 2094111 and 2094115 for 1947.<sup>5</sup>Total includes a large amount of duplication, because of interplant shipments of crude oil.<sup>6</sup>Code 2094511 has been combined with code 2094598.<sup>7</sup>Code 2094521 has been combined with code 2094598; the combined figure also includes miscellaneous byproducts not specified by kind.<sup>8</sup>Code 2095311 has been combined with code 2095453.<sup>9</sup>Frozen fruit and berry juices are classified in product codes 2037171-179.<sup>10</sup>Codes 2099721, 25, 63, 65, 67, 68, 71, and 75 have been combined with code 2099798.<sup>11</sup>Includes "specialties" such as frozen waffles, pies, and combinations not classifiable elsewhere. Does not include frozen meats (product codes 2011111-411), dairy products (codes 2024011-098), seafood (code 2036111) or fruits and vegetables (codes 2037111-298).<sup>12</sup>Code 2072221 has been combined with code 2072231.<sup>13</sup>Detailed statistics for these products are shown in the report for Industry 2072.

## MANUFACTURES--INDUSTRY STATISTICS

Table 6B.—VALUE OF PRODUCT CLASSES SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, BY DIVISIONS AND STATES FOR 1954, AND UNITED STATES TOTALS FOR EARLIER YEARS

(In thousands of dollars. Statistics are shown for selected product classes which are economically significant and production of which is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (Table 2) and they are not miscellaneous or "not specified by type" classes. For each product class, States are listed only if the value of shipments is more than \$1 million and the figure does not disclose individual company information. Additional States which had shipments of more than \$1 million of the individual product classes are listed in footnote 1)

Product class, region, and State <sup>1</sup>	Value of shipments	Product class, region, and State <sup>1</sup>	Value of shipments	Product class, region, and State <sup>1</sup>	Value of shipments
<u>Shortening and salad oils, except margarine (20920)</u>		<u>Flavoring sirups, soft drink (20953)—Continued</u>		<u>Potato chips (20992)—Continued</u>	
1954 United States, total.....	888,258	Middle Atlantic.....	55,479	Middle Atlantic.....	33,983
1951 United States, total.....	689,080	East North Central.....	15,858	New York.....	8,215
1950 United States, total.....	598,177	Illinois.....	14,169	Pennsylvania.....	25,768
1947 United States, total.....	744,794	West North Central.....	11,552	East North Central.....	51,360
1954		South Atlantic.....	39,191	Ohio.....	16,405
Middle Atlantic.....	154,286	East South Central.....	24,805	Indiana.....	5,229
New Jersey.....	81,551	West South Central.....	32,277	Illinois.....	12,419
East North Central.....	225,896	Pacific.....	11,589	Michigan.....	12,138
Ohio.....	74,170	<u>Other flavoring agents, except chocolate sirup (20954)</u>		Wisconsin.....	5,168
Illinois.....	129,127	1954 United States, total.....	159,518	West North Central.....	13,914
West North Central.....	16,937	1954		Minnesota.....	2,988
South Atlantic.....	103,762	New England.....	3,451	Iowa.....	1,902
Virginia.....	15,390	Middle Atlantic.....	51,469	Missouri.....	4,975
Georgia.....	76,204	New York.....	27,912	Nebraska.....	2,673
East South Central.....	145,509	New Jersey.....	16,719	Kansas.....	1,308
West South Central.....	151,197	Pennsylvania.....	6,837	South Atlantic.....	14,943
Texas.....	97,771	East North Central.....	39,339	Virginia.....	2,923
Pacific.....	83,942	Ohio.....	4,497	North Carolina.....	1,258
<u>Flavoring extracts, emulsions and other flavors (20951)</u>		Illinois.....	32,379	Georgia.....	5,601
1954 United States, total.....	65,182	Michigan.....	1,347	Florida.....	1,976
1953 United States, total.....	58,135	West North Central.....	9,787	East South Central.....	7,041
1952 United States, total.....	56,007	Missouri.....	7,790	West South Central.....	10,461
1951 United States, total.....	55,708	South Atlantic.....	14,800	Louisiana.....	1,164
1950 United States, total.....	55,082	Maryland.....	8,040	Texas.....	8,341
1947 United States, total.....	39,461	Virginia.....	1,063	Mountain.....	6,518
1954		Georgia.....	5,321	Pacific.....	18,970
New England.....	2,474	West South Central.....	8,953	California.....	15,096
Massachusetts.....	1,489	Mountain.....	2,212	<u>Sweeting sirups and molasses, mixed or blended (20993)</u>	
Middle Atlantic.....	15,714	Pacific.....	28,348	1954 United States, total.....	78,157
New York.....	8,849	<u>Desserts, ready-to-mix, except ice cream mix (20991)</u>		1947 United States, total.....	91,491
New Jersey.....	5,900	1954 United States, total.....	123,116	1954	
East North Central.....	13,891	1953 United States, total.....	121,304	Middle Atlantic.....	17,260
Ohio.....	2,224	1952 United States, total.....	102,267	East North Central.....	20,091
Indiana.....	1,813	1951 United States, total.....	93,852	West North Central.....	8,042
Illinois.....	7,440	1947 United States, total.....	79,638	South Atlantic.....	4,783
Michigan.....	2,093	1954		East South Central.....	3,155
West North Central.....	5,337	Middle Atlantic.....	66,756	West South Central.....	14,571
Missouri.....	4,643	New York.....	41,489	Louisiana.....	10,570
South Atlantic.....	18,442	New Jersey.....	25,032	Pacific.....	3,759
Maryland.....	4,287	East North Central.....	34,787	Washington.....	2,057
West South Central.....	2,029	Illinois.....	29,958	<u>Eggs, liquid, dried, and frozen (20994)</u>	
Texas.....	1,661	Pacific.....	17,103	1954 United States, total.....	148,034
Pacific.....	6,448	<u>Potato chips (20992)</u>		1953 United States, total.....	187,422
Washington.....	1,562	1954 United States, total.....	165,772	1952 United States, total.....	150,178
California.....	4,885	1953 United States, total.....	138,342	1951 United States, total.....	184,022
<u>Flavoring sirups, soft drink (20953)</u>		1952 United States, total.....	129,051	1947 United States, total.....	236,758
1954 United States, total.....	194,177	1951 United States, total.....	123,153	1954	
1954		1947 United States, total.....	79,221	East North Central.....	28,778
New England.....	3,217	1954		Ohio.....	3,334
		New England.....	8,467	Indiana.....	4,578
				Illinois.....	17,395

See footnotes at end of table.



## MISCELLANEOUS FOOD PREPARATIONS

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Table 6B.—VALUE OF PRODUCT CLASSES SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, BY DIVISIONS AND STATES FOR 1954, AND UNITED STATES TOTALS FOR EARLIER YEARS—Continued

Product class, region, and State <sup>1</sup>	Value of shipments	Product class, region, and State <sup>1</sup>	Value of shipments	Product class, region, and State <sup>1</sup>	Value of shipments
<u>Eggs, liquid, dried, and frozen</u> (20994)—Continued		<u>Roasted coffee (20995)—Continued</u>		<u>Roasted coffee (20995)—Continued</u>	
West North Central.....	97,825	1950 United States, total.....	1,263,295	South Atlantic.....	143,411
Iowa.....	21,125	1947 United States, total.....	755,125	Maryland.....	32,756
Missouri.....	40,768	1954		District of Columbia.....	16,930
South Dakota.....	5,854	New England.....	56,221	Virginia.....	10,175
Nebraska.....	13,559	Massachusetts.....	53,780	Georgia.....	8,961
Kansas.....	10,865	Middle Atlantic.....	673,102	Florida.....	66,495
South.....	15,192	New York.....	202,503	East South Central.....	59,879
West South Central.....	12,328	New Jersey.....	427,543	Tennessee.....	27,652
Texas.....	8,675	Pennsylvania.....	43,056	West South Central.....	242,015
Pacific.....	1,342	East North Central.....	264,766	Louisiana.....	47,327
		Ohio.....	82,133	Oklahoma.....	12,589
		Indiana.....	1,545	Texas.....	181,605
		Illinois.....	168,556	Mountain.....	6,401
		Michigan.....	10,832	Pacific.....	301,547
		Wisconsin.....	1,699	Washington.....	6,469
<u>Roasted coffee (20995)</u>		West North Central.....	138,973	Oregon.....	24,066
1954 United States, total.....	1,886,736	Minnesota.....	10,805	California.....	271,012
1953 United States, total.....	1,683,458	Missouri.....	81,204		
1952 United States, total.....	1,568,927				
1951 United States, total.....	1,500,034				

Note: The figures shown for 1950 to 1953 are sample estimates obtained from the Annual Survey of Manufactures for those years. Since the estimates are based on a sample they are subject to sampling variability, that is, they are not the same as figures which would have been obtained if complete censuses had been taken for those years. Measures of the sampling variability (standard errors) of the estimated total value of shipments of each product class are shown in the Annual Survey of Manufactures publications. Also shown are the standard errors of the relative change in shipments between some consecutive Annual Survey years which are the more significant measures when the series is studied for trend.

<sup>1</sup>For the specified product classes, shipments of over \$1 million were reported for the States listed but the exact figures are withheld to avoid disclosure of individual company figures: 20920, New York, Pennsylvania, Indiana, Wisconsin, Minnesota, Iowa, Missouri, Nebraska, Kansas, North Carolina, Florida, Kentucky, Tennessee, Alabama, Mississippi, Arkansas, Louisiana, Oklahoma, and California; 20951, Virginia and Georgia; 20953, Massachusetts, Connecticut, New York, New Jersey, Missouri, Maryland, Georgia, Kentucky, Tennessee, Alabama, Louisiana, Texas, Oregon, and California; 20954, Massachusetts, Kansas, Arkansas, Louisiana, Texas, Arizona, Oregon, and California; 20991, Indiana and California; 20992, Maine, Massachusetts, Rhode Island, Maryland, District of Columbia, Kentucky, Tennessee, Alabama, Colorado, Utah, Washington, and Oregon; 20993, Vermont, Massachusetts, New York, New Jersey, Illinois, Maryland, North Carolina, Georgia, Alabama, Texas, and California; 20994, New York, New Jersey, Michigan, Minnesota, Oklahoma, and California; 20995, Connecticut, Nebraska, Kansas, North Carolina, South Carolina, Kentucky, Alabama, and Mississippi.

## MANUFACTURES—INDUSTRY STATISTICS

Table 7.—MATERIALS CONSUMED, BY KIND: 1954 AND 1947

Code	Description of materials	Unit of measure	1954		1947	
			Quantity	Delivered cost (\$1,000)	Quantity	Delivered cost (\$1,000)
	INDUSTRY 2094—CORN WET MILLING					
	Materials, containers, and supplies, total.....		xxx	270,521	xxx	323,015
011115	Corn.....	Thousand bushels	126,342	195,323	139,825	253,637
209411	Purchased corn starch.....	Thousand pounds.	66,451	4,367	(NA)	(NA)
206011	Sugar (cane and beet).....	Cwt.....	36,346	317	(NA)	(NA)
970000	Other materials (including sorghum grain), ingredients, containers and supplies.....		xxx	70,514	xxx	69,378
	INDUSTRY 2095—FLAVORINGS					
	Materials, supplies, and containers, total.....		xxx	223,345	xxx	149,131
206011	Sugar (cane and beet).....	Cwt.....	10,182,363	81,693	6,918,910	56,233
970000	Other materials, ingredients, containers and supplies.....		xxx	141,652	xxx	92,898
	INDUSTRY 2098—MACARONI AND SPAGHETTI					
	Materials, parts, containers, and supplies, total.....		xxx	95,871	xxx	68,294
204115	Semolina and durum flour.....	Cwt.....	5,283,611	43,097	8,338,000	50,282
204111	Other wheat flour.....	do.....	2,774,923	19,640		
970000	Other materials, ingredients, containers, and supplies.....		xxx	33,134	xxx	18,012
971000						
			1954			1947
			Quantity	De-livered cost (\$1,000)	Live weight (1,000 lbs.)	De-livered cost (\$1,000)
	INDUSTRY 2099—FOOD PREPARATIONS, N.E.C.					
	Materials, containers, and supplies, total.....		xxx	2,431,374	xxx	xxx
	Poultry killed:					
011531	Young chickens 2 to 4 lbs., live weight (include commercial broilers)...	Thousand birds..	17,506	8,742	38,372	
011533	Hens (or fowl) and other chickens.....	do.....	2,803	2,597	13,410	
011535	Turkeys.....	do.....	837	3,857	14,192	
	Other materials used:					xxx
011541	Shell eggs.....	Case (30 dozen).	9,168,367	95,397	xxx	
204111	Wheat flour.....	Cwt.....	2,150,288	13,103	xxx	
206011	Sugar (cane and beet).....	do.....	4,843,606	40,820	xxx	
011251	Green coffee.....	do.....	20,284,058	1,466,532	xxx	
970000	All other materials, ingredients, containers and supplies including materials etc. not specified by kind.....		xxx	800,326	xxx	xxx

XXX Not applicable.

NA Not available.

## MISCELLANEOUS FOOD PREPARATIONS

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Table 8.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY INDUSTRY SPECIALIZATION AND PRIMARY PRODUCT CLASS SPECIALIZATION, FOR THE UNITED STATES: 1954

(This table presents selected statistics for establishments classified according to their degree of specialization in products primary to the industry. The establishments are classified in two ways: (1) by industry specialization—the degree of specialization in all primary products of the industry; and (2) by product-class specialization—the degree of specialization in the largest product class of the establishment. The degree of "industry specialization" for an establishment represents the ratio of its primary product shipments to its total product shipments, primary and secondary. The degree of "product-class specialization" for an establishment represents the ratio of its largest product class shipments to its total product shipments, primary and secondary. Data are not shown for some industries, product classes, and specialization ranges for a variety of reasons, consequently, detailed figures frequently do not add to the totals. See Introduction for detailed explanation)

Ind. or product class No.	Industry or product class by percent of specialization	Establishments, number	All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
2091	LEAVENING COMPOUNDS (entire industry).....	43	2,685	12,246	1,987	3,840	8,696	45,350	25,834	71,185
	Establishments with:									
	90% or more specialization.....	34	1,315	6,062	932	1,794	3,841	22,184	11,704	33,888
20912	Yeast:									
	All establishments specializing in product class.....	34	2,365	10,986	1,758	3,368	7,861	40,737	20,305	61,043
	Establishments with:									
	90% or more specialization.....	27	1,180	5,428	831	1,578	3,410	18,428	8,195	26,624
2092	SHORTENING AND COOKING OILS (entire industry).....	102	9,398	42,414	6,755	14,016	27,571	175,988	759,347	935,338
	Establishments with:									
	90% or more specialization.....	67	5,174	23,603	3,618	7,460	14,692	114,128	442,048	556,180
	75-89% specialization.....	10	1,082	4,619	808	1,700	3,055	16,715	81,998	98,713
	50-74% specialization.....	19	2,714	12,328	1,989	4,101	8,604	41,980	198,240	240,221
	All other <sup>1</sup> .....	6	427	1,863	339	755	1,219	3,164	37,059	40,224
2094	CORN WET MILLING (entire industry).....	58	13,565	60,030	10,584	21,008	43,172	176,696	281,746	458,442
	Establishments with:									
	90% or more specialization.....	49	12,941	57,286	10,125	20,018	41,345	170,412	270,563	440,976
	75-89% specialization.....	4	588	2,620	434	941	1,752	6,108	10,813	16,921
20942	Other starch including reprocessed:									
	All establishments specializing in product class.	36	1,023	4,043	795	1,673	2,819	9,117	17,647	26,765
	Establishments with:									
	90% or more specialization.....	27	428	1,557	338	758	1,048	5,044	6,957	12,001
2095	FLAVORINGS (entire industry).....	558	10,593	45,060	6,543	12,402	20,308	219,445	226,611	446,056
	Establishments with:									
	90% or more specialization.....	438	5,955	25,054	3,830	7,022	11,452	158,975	144,957	303,932
	75-89% specialization.....	40	1,412	6,305	772	1,550	2,508	16,537	15,866	32,403
	50-74% specialization.....	64	2,947	12,712	1,760	3,475	5,847	42,231	63,040	105,271
	All other <sup>1</sup> .....	16	278	989	179	354	500	1,701	2,747	4,449
20951	Flavoring extracts, emulsions, and other flavors:									
	All establishments specializing in product class.	181	2,412	10,546	1,362	2,338	3,565	30,106	24,842	54,948
	90% or more specialization.....	126	1,287	5,128	735	1,172	1,682	18,274	11,540	29,815
	75-89% specialization.....	22	390	2,333	236	472	921	6,042	6,721	12,764
	50-74% specialization.....	25	527	2,159	292	484	618	3,762	4,864	8,627
	Less than 50% specialization.....	8	207	926	98	209	343	2,027	1,715	3,742
20952	Beverage bases (except sirups):									
	All establishments specializing in product class.	46	1,385	5,658	981	1,844	3,231	17,807	31,074	48,882
	Establishments with:									
	90% or more specialization.....	33	637	2,572	478	988	1,665	10,232	12,440	22,673
	75-89% specialization.....	4	71	307	62	117	196	1,767	2,159	3,927
20953	Flavoring sirups, soft drinks:									
	All establishments specializing in product class.	96	2,178	9,183	1,271	2,560	4,513	122,645	107,312	229,957
	Establishments with:									
	90% or more specialization.....	69	695	2,663	414	812	1,099	27,982	25,140	53,125
	75-89% specialization.....	7	462	1,858	253	502	909	26,800	20,617	47,420
	50-74% specialization.....	16	900	4,095	365	1,170	2,352	65,564	59,847	125,411
	Less than 50% specialization.....	4	121	566	37	76	151	2,298	1,702	4,000
20954	Other flavoring agents, except chocolate sirup:									
	All establishments specializing in product class.	155	4,299	18,658	2,688	5,207	8,335	45,772	59,120	104,892
	Establishments with:									
	90% or more specialization.....	75	1,344	5,782	883	1,616	2,679	15,351	18,200	33,552
	75-89% specialization.....	17	709	3,252	421	919	1,445	8,043	9,958	18,002
	50-74% specialization.....	41	1,675	6,811	1,123	2,116	3,290	17,665	24,263	41,928
	Less than 50% specialization.....	22	570	2,812	259	555	919	4,712	6,697	11,410
2099	FOOD PREPARATIONS, N.E.C. (entire industry).....	2,599	71,952	251,440	52,761	103,702	146,907	806,298	2,449,670	3,255,967
	Establishments with:									
	90% or more specialization.....	2,275	52,262	183,862	38,309	74,877	107,682	648,500	2,120,308	2,768,808
	75-89% specialization.....	123	5,466	17,833	4,035	7,815	10,739	49,115	123,266	172,381
	50-74% specialization.....	150	10,058	35,569	7,532	15,662	21,261	77,862	164,115	241,978
	All other <sup>1</sup> .....	51	4,164	14,174	2,884	5,346	7,223	30,820	41,978	72,799
20991	Desserts, ready-to-mix, except ice cream mix:									
	All establishments specializing in product class.	46	2,595	10,940	1,849	3,835	6,694	55,689	60,734	116,424
	Establishments with:									
	90% or more specialization.....	27	563	2,467	415	839	1,484	17,268	18,491	35,760

See footnotes at end of table.



Table 8.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY INDUSTRY SPECIALIZATION AND PRIMARY PRODUCT CLASS SPECIALIZATION, FOR THE UNITED STATES: 1954—Continued

Ind. or product class No.	Industry or product class by percent of specialization	Establishments, number	All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
2099	FOOD PREPARATIONS, N.E.C.—Continued									
	Potato chips:									
	All establishments specializing in product class.	392	13,971	48,977	9,556	18,729	25,346	96,821	117,016	213,837
	Establishments with:									
	90% or more specialization.....	289	7,074	22,921	5,145	10,041	13,311	43,352	53,840	97,192
	75-89% specialization.....	51	2,792	9,289	1,903	3,511	4,532	16,762	19,228	35,991
	50-74% specialization.....	41	2,762	11,392	1,746	3,615	5,520	25,102	25,610	50,712
	Less than 50% specialization.....	11	1,342	5,374	761	1,561	1,981	11,602	18,338	29,941
20993	Sweetening sirups and molasses, mixed or blended:									
	All establishments specializing in product class.	46	969	3,570	603	1,193	1,709	10,318	26,612	36,930
	Establishments with:									
	90% or more specialization.....	35	707	2,445	426	873	1,163	7,122	19,868	26,990
20994	Eggs, liquid, dried and frozen:									
	All establishments specializing in product class.	90	4,690	11,208	4,198	7,897	8,473	28,493	123,748	152,242
	Establishments with:									
	90% or more specialization.....	67	2,746	5,860	2,536	4,641	4,819	13,552	80,646	94,199
	75-89% specialization.....	8	609	1,592	522	1,019	1,157	5,373	15,646	21,019
	50-74% specialization.....	15	1,334	3,755	1,139	2,237	2,496	9,568	27,455	37,024
20995	Roasted coffee:									
	All establishments specializing in product class.	387	16,770	70,557	11,257	22,130	37,652	340,661	1,666,608	2,007,275
	Establishments with:									
	90% or more specialization.....	335	11,533	48,286	7,368	14,214	23,503	233,379	1,261,704	1,495,090
	75-89% specialization.....	33	3,423	15,477	2,458	5,018	9,423	81,470	297,447	378,918
	50-74% specialization.....	15	1,535	5,824	1,227	2,495	4,121	23,560	98,155	121,715
	Less than 50% specialization.....	4	278	969	203	403	603	2,250	9,301	11,552
20996	Vinegar and cider:									
	All establishments specializing in product class.	134	1,225	3,688	1,039	2,160	2,757	9,056	13,110	22,166
	Establishments with:									
	90% or more specialization.....	112	937	2,773	786	1,641	2,049	7,061	9,843	16,905
	75-89% specialization.....	6	45	134	37	87	103	450	739	1,189
20997	Other food preparations:									
	All establishments specializing in product class.	1,195	29,915	96,928	22,932	45,180	61,086	251,996	409,549	661,545
	Establishments with:									
	90% or more specialization.....	1,012	16,944	54,997	13,001	25,504	34,338	158,302	231,792	390,094
	75-89% specialization.....	64	2,995	9,993	2,458	4,911	7,109	24,924	51,756	76,681
	50-74% specialization.....	87	5,730	18,444	4,695	9,738	12,753	37,182	79,976	117,158
	Less than 50% specialization.....	32	4,244	13,493	2,777	5,026	6,884	31,587	46,024	77,611
20722	Other chocolate and cocoa products: <sup>2</sup>									
	All establishments specializing in product class.	20	271	1,054	193	402	591	2,286	5,223	7,510
	Establishments with:									
	90% or more specialization.....	11	144	500	120	249	334	1,125	2,247	3,373

<sup>1</sup>This class includes data for establishments with less than 50 percent specialization in the primary products of the industry and establishments engaged exclusively in contract work defined in the industry. Miscellaneous small statistical adjustments are also included.

<sup>2</sup>These establishments were primarily engaged in manufacturing chocolate and cocoa products from purchased cocoa powder rather than from cocoa beans and were therefore classified in Industry 2099 rather than in Industry 2072. Product Class 20722 was treated as "primary" to both industries.







## Major Group 21.—Tobacco Manufactures

This major group includes establishments engaged in manufacturing cigarettes, cigars, smoking and chewing tobacco, and snuff, and in stemming and redrying tobacco. The manufac-

ture of insecticides from tobacco byproducts is included in Major Group 28, Chemicals and Products.

Table 1.—GENERAL STATISTICS FOR THE INDUSTRY GROUP: 1954 AND EARLIER YEARS  
(For explanation of column captions see Introduction)

Year <sup>1</sup>	Establishments, number	All employees <sup>2</sup>		Production workers			Value added by manufacture <sup>3</sup>	Capital expenditures, new	Horsepower of prime movers and electric motors <sup>4</sup>
		Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
1954.....	627	94,863	259,689	87,073	162,988	219,736	988,001	28,018	256
1953 <sup>5</sup> .....	...	95,442	253,411	87,176	165,704	213,310	987,073	29,420	...
1952 <sup>5</sup> .....	(S)	93,175	240,732	85,461	162,779	201,679	867,590	22,338	...
1951 <sup>5</sup> .....	(S)	93,753	230,179	85,836	161,831	192,252	856,440	17,992	...
1950 <sup>5</sup> .....	(S)	92,561	212,536	84,576	159,682	177,313	806,118	17,654	...
1949 <sup>5</sup> .....	(NA)	100,729	207,780	92,820	173,898	174,439	778,563	22,341	...
1947.....	1,086	111,782	205,838	103,289	198,323	175,318	641,356 <sup>6</sup>	35,645	...
1939.....	765	96,035	86,772	87,525		68,900	350,152	(NA)	100
1937.....	852	97,851	82,376	92,158		70,291	325,060		
1935.....	890	95,589	71,329	90,543		59,447	284,375		
1933.....	804	90,790	59,344	87,325		50,933	249,987		
1931.....	1,228	(NA)	(NA)	99,769		69,411	370,348		
1929.....	1,788	126,303 <sup>4</sup>	117,625	116,119		94,578	( <sup>6</sup> )		
1927.....	2,156	140,902	128,571	129,229	(NA)	105,250	( <sup>6</sup> )	(NA)	(NA)
1925.....	2,623	142,672	133,931	132,132		111,558	( <sup>6</sup> )		
1923.....	3,672	162,076	151,165	146,337		120,463	( <sup>6</sup> )		
1921.....	4,372	164,669	147,548	149,985		120,903	( <sup>6</sup> )		
1919.....	10,291	172,776	153,299	157,097		123,988	( <sup>6</sup> )		
1914.....	13,951	195,694	99,980	178,872		77,856	( <sup>6</sup> )		
1909.....	15,822	180,003	86,134	166,810		69,355	( <sup>6</sup> )		
1904.....	16,827	168,641	71,439	159,406		62,639	( <sup>6</sup> )		
1899.....	14,959	140,362	56,568	132,526		47,975	( <sup>6</sup> )		

NA Not available.

S Withheld because the estimate did not meet publication standards, either on the basis of the associated standard error of estimate or on the basis of a consistency review.

<sup>1</sup>In addition to data for operating establishments, manufacturers' central administrative offices and auxiliary units reported 7,204 employees with a payroll of \$36,615 thousand in 1954. Similar data are shown for the years 1949-1953 in the Annual Survey of Manufactures volumes. Data for these units are not available for the years prior to 1949.

<sup>2</sup>The figures for 1939 through 1954 include data for employees of manufacturing establishments who were engaged in distribution and construction work. The extent to which data for such employees are included in the figures for earlier years is not known.

<sup>3</sup>Value of products less costs of materials, supplies, fuel, electricity, and contract work. For 1899-1933, cost of contract work was not subtracted from value of products in calculating value added by manufacture.

<sup>4</sup>Driven by purchased energy.

<sup>5</sup>The figures for 1949-1953 represent estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period.

<sup>6</sup>The figures for value added by manufacture are omitted because they include Internal Revenue taxes.

## MANUFACTURES—INDUSTRY STATISTICS

Table 2.—GENERAL STATISTICS FOR INDUSTRY GROUPS BY REGIONS AND STATES: 1954 AND 1947  
(For explanation of column captions see Introduction)

Industry group, region, and State <sup>1</sup>	1954								1947	
	Number of establish- ments	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
		Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
Tobacco manufactures (S.I.C. Group 21), total.	627	94,863	259,689	87,073	162,988	219,736	988,001	28,018	111,782	641,356
New England.....	45	876	2,035	764	1,288	1,483	3,991	( <sup>2</sup> )	1,379	3,957
Massachusetts.....	21	350	818	302	535	600	1,971	( <sup>2</sup> )	377	1,272
Middle Atlantic.....	247	21,600	53,085	20,004	36,770	46,304	116,929	2,100	26,927	103,666
New York.....	105	1,377	3,493	1,195	2,209	2,884	7,630	( <sup>2</sup> )	2,208	7,527
New Jersey.....	13	3,856	10,590	3,548	6,282	8,994	32,993	511	5,337	29,829
Pennsylvania.....	129	16,365	39,001	15,260	28,278	34,425	76,305	1,463	19,382	66,310
North Central.....	95	4,738	13,198	4,143	7,560	10,045	36,393	( <sup>2</sup> )	7,849	38,071
Ohio.....	17	1,530	3,906	1,329	2,367	3,026	8,913	( <sup>2</sup> )	2,671	14,504
Indiana.....	9	910	2,043	856	1,620	1,725	3,291	(D)	1,353	4,108
Illinois.....	32	579	1,974	518	918	1,732	11,720	( <sup>2</sup> )	(D)	(D)
Michigan.....	9	673	2,268	539	915	1,313	5,883	( <sup>2</sup> )	906	3,612
South Atlantic.....	163	53,711	150,802	49,207	92,038	126,917	644,244	17,617	(D)	(D)
Virginia.....	30	14,620	43,423	13,232	24,723	35,940	202,069	5,044	16,687	143,021
West Virginia.....	6	1,200	3,109	1,059	1,797	2,393	6,912	( <sup>2</sup> )	(D)	(D)
North Carolina.....	57	26,147	77,087	23,662	44,210	64,159	390,599	11,497	32,452	257,986
South Carolina.....	5	1,586	3,575	1,505	2,732	3,196	5,728	( <sup>2</sup> )	(D)	(D)
Florida.....	59	8,959	21,238	8,598	16,431	19,099	33,730	753	8,723	18,723
East South Central....	57	12,391	37,429	11,525	22,964	32,329	180,858	7,595	(D)	(D)
Kentucky.....	44	10,401	33,236	9,699	19,678	28,948	164,223	7,044	9,152	41,784
West South Central....	6	1,187	2,137	1,130	1,885	1,962	4,131	( <sup>2</sup> )	...	...
Pacific.....	14	357	1,001	296	481	694	1,453	( <sup>2</sup> )	(D)	(D)
California.....	14	357	1,001	296	481	694	1,453	( <sup>2</sup> )	(D)	(D)
Cigarettes (S.I.C. Group 211), total <sup>3</sup> .....	19	29,987	103,779	27,694	53,643	91,067	677,252	20,362	27,674	368,417
Cigars (S.I.C. Group 212), total <sup>3</sup> .....	410	38,494	89,259	36,076	65,720	78,455	165,312	2,884	47,068	143,145
Chewing and smoking tobacco (S.I.C. Group 213), total <sup>3</sup> ..	65	7,535	23,372	6,444	11,729	17,229	80,057	1,205	11,139	57,571
Tobacco stemming and redrying (S.I.C. Group 214), total <sup>3</sup> ..	133	18,846	43,278	16,857	31,894	32,983	65,378	3,566	25,901	72,223

NOTE: Detailed figures may not add to the totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>Each producing State not shown separately has been withheld either (a) to avoid disclosing figures for individual companies; or (b) because the State has less than 100 employees in the industry group. Such State figures are included, however, in the appropriate regional and United States totals.<sup>2</sup>Less than \$500 thousand.<sup>3</sup>This industry sub-group consists of a single four-digit industry. Detailed data by States are included in the four-digit industry tables.

## TOBACCO MANUFACTURES

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Table 3.--DETAILED STATISTICS FOR THE INDUSTRY GROUP: 1954

(For explanation of line captions see Introduction)

Item	Major industry group 21	Item	Major industry group 21
Number of establishments, total.....	627	Cost and quantity of purchased fuel and electricity—Con.	
With 1-19 employees.....	336	Electric energy:	
With 20-99 employees.....	116	Purchased:	
With 100 employees and over.....	175	Quantity.....million kwh..	241
All employees:		Cost.....\$1,000..	3,498
Number (average for year).....	94,863	Generated.....million kwh..	99
Payroll.....\$1,000..	259,689	Sold:	
Production workers:		Quantity.....do....	10
Number (average for year).....	87,073	Value.....\$1,000..	150
Man-hours.....1,000..	162,988	Manufacturers' inventories:	
Wages.....\$1,000..	219,736	Beginning of year, total.....do....	1,628,468
Value added by manufacture.....do....	988,001	Finished products.....do....	1,641,534
Value added by resales.....do....	2,462	Work-in-process.....do....	27,147
Number of employees for selected months:		Materials, supplies, fuel, etc.....do....	1959,787
March.....	88,252	End of year, total.....do....	1,702,469
May.....	85,240	Finished products.....do....	1,653,464
August.....	102,574	Work-in-process.....do....	28,810
November.....	103,376	Materials, supplies, fuel, etc.....do....	1,020,195
Cost and quantity of purchased fuel and electricity:		Expenditures for plant and equipment:	
Fuels consumed, total cost.....\$1,000..	3,609	Capital expenditures, new.....do....	28,018
Bituminous coal and anthracite:		New structures and additions to plant.....do....	5,010
Quantity.....1,000 short tons..	345	New Machinery and equipment.....do....	23,008
Value.....\$1,000..	2,927	Expenditures for used plant and equipment.....do....	876
Coke:		Horsepower rating of power equipment at end of 1954:	
Quantity.....1,000 short tons..	2	Total horsepower of prime movers and electric	
Value.....\$1,000..	33	motors driven by purchased energy.....1,000 hp..	256
Fuel oil:		Engines, etc., driving electric generators.....do....	75
Quantity.....1,000 barrels..	278	Engines, etc., not driving electric	
Value.....\$1,000..	869	generators.....do....	15
Gas:		Electric motors driven by purchased energy.....do....	166
Quantity.....million cubic feet..	595	Electric motors driven by energy generated at the	
Value.....\$1,000..	267	establishment.....do....	27
Other fuels:			
Value.....do....	266		

Note: Detailed figures may not add to totals because of independent rounding.

<sup>1</sup>The total inventories, reported in the 1954 Census for Industry 2141 were allocated by type of inventory on the basis of the distribution reported in the 1953 Annual Survey of Manufactures.





## Tobacco Manufactures

This report shows 1954 Census of Manufactures statistics for establishments classified in each of the following industries:

Code	Title
2111	Cigarettes
2121	Cigars
2131	Chewing and Smoking Tobacco
2141	Tobacco Stemming and Redrying

All tobacco products produced by manufacturing establishments are produced at establishments classified in this major group of industries. The principal companies operating establishments in this major group produce tobacco products of more than one of the tobacco industries. However, for the most part, tobacco products are made at separate establishments of these companies which specialize in the products of a particular industry. Consequently, there is a relatively high degree of primary product specialization within each tobacco industry.

All tobacco products manufactured for sale in this country are subject to a manufacturers' excise tax, except for stemmed and/or redried leaf tobacco which, although classified as "manufactured" tobacco products in the Census, are not defined as "manufactured" tobacco products for taxation purposes. In reporting to the Census of Manufactures, respondents were instructed to report the gross value of each product, f.o.b. plant, exclusive of excise tax, and to report separately the excise taxes paid. The costs reported for materials consumed also exclude any excise taxes paid on these materials. This corresponds to the reporting methods followed in the 1947 Census.

In the 1954 and 1947 Censuses, production rather than shipments data were secured from tobacco manufacturers, because some large manufacturers stated that they could not provide accurate information on the value of shipments from their factories. Since most of the products of Industry 2141, Tobacco Stemming and Redrying, are consumed as raw materials in one of the other tobacco industries, there is duplication in the aggregate value of production for the major group.

The number of establishments shown in this report for the tobacco group falls below the corresponding number shown in the reports of the Commissioner of Internal Revenue. The difference is due to the following causes: (1) Under the licensing system of the Bureau of Internal Revenue, the same establishment may apply for and report under more than one license—whereas for census purposes such an establishment generally would make only one report. (2) A considerable number of establishments licensed to manufacture tobacco products sold all the tobacco products produced at retail (particularly in the cigar and smoking tobacco industries) and, therefore, were not covered by the Census of Manufactures. (See Introduction.) (3) A number of manufacturers of cigarette making and tobacco processing machinery are licensed to manufacture tobacco products, which they do only on an experimental basis; most of these establishments reported no production in 1954, however.

As a result of (2) above, the quantities of cigarettes, cigars, chewing and smoking tobacco and snuff, as shown in this report, vary slightly from the corresponding quantities published by the Bureau of Internal Revenue. Although all of these products produced by manufacturing establishments are included in the Census statistics, the small amounts produced at retail or wholesale establishments are excluded. Another circumstance that causes variance from the quantities published by the

Bureau of Internal Revenue is the reporting to the Census by some establishments on a fiscal rather than a calendar year basis.

### 2111—Cigarettes

This industry comprises establishments primarily engaged in the manufacture of cigarettes.

The value of production of Industry 2111, Cigarettes, in 1954 totaled \$1,641 million (exclusive of excise taxes). This production consisted almost entirely of cigarettes with only one percent accounted for by products primary to other industries, such as chewing and smoking tobacco and cigars. In 1947 the primary product specialization ratio was also close to 100 percent. Almost all of the cigarettes produced both in 1954 and 1947 were produced by establishments in this industry. Plants primarily engaged in producing chewing and smoking tobacco and snuff and cigars also produced a small amount of cigarettes.

### 2121—Cigars

This industry comprises establishments primarily engaged in the manufacture of cigars. Retail stores producing cigars are classified in Trade industries.

The value of production of Industry 2121, Cigars, in 1954 totaled \$339 million (exclusive of excise taxes). This included production of primary products (cigars) valued at \$333 million (virtually all of the cigar production in all manufacturing industries), secondary products valued at \$4 million, and miscellaneous receipts (mainly scrap and salable refuse) of \$2 million.

Industry 2121 production of cigars in 1954 represented 99 percent of its total production of all products (primary and secondary). In 1947, this primary product specialization ratio was also 99 percent. Secondary products produced by Industry 2121 in 1954 consisted of stemmed and/or redried leaf tobacco and relatively small quantities of chewing and smoking tobacco.

2131--Chewing and Smoking Tobacco (Full Standard Industrial Classification title: Tobacco, Chewing and Smoking, and Snuff)

This industry comprises establishments primarily engaged in the manufacture of chewing and smoking tobacco and snuff. For a detailed list of primary products of Industry 2131, refer to Table 6, product codes 2131011 to 2131055.

The value of production of Industry 2131, Chewing and Smoking Tobacco, was \$162 million in 1954. This included production of primary products (chewing and smoking tobacco and snuff) valued at close to \$155 million, production of secondary products (cigarettes and stemmed and/or redried leaf tobacco) valued at \$6 million, and miscellaneous receipts of \$1 million.

Industry 2131 production of chewing and smoking tobacco and snuff (primary products) in 1954 represented 96 percent of its total production of all manufactured products (primary and secondary). In 1947, this primary product specialization ratio was 98 percent.

Industry 2131 production of chewing and smoking tobacco and snuff in 1954 represented 89 percent of the chewing and smoking tobacco and snuff, valued at \$174 million, produced by all manufacturing industries. In 1947, this coverage ratio was 86. Other industries shipping chewing and smoking tobacco and snuff in 1954 were Industry 2111, Cigarettes, \$19 million; and small quantities from Industries 2121, Cigars, and 2141, Tobacco Stemming and Redrying.

2141—Tobacco Stemming and Redrying

This industry comprises establishments primarily engaged in the stemming and/or redrying of tobacco. Establishments primarily engaged in producing scrap filler for cigars are also included in the industry. Establishments which primarily buy and sell leaf tobacco as merchant wholesalers, agents or brokers, or whose principal source of receipts is for warehousing tobacco, are not included in this industry, although they may also be engaged in stemming and/or redrying tobacco; such establishments are classified in Wholesale Trade. For a detailed list of products of Industry 2141, refer to Table 6A, product codes 2141111 to 2141231.

Production of Industry 2141, Tobacco Stemming and Redrying, in 1954 totaled \$1,043 million. This included production of redried tobacco and/or stemmed tobacco (primary products) valued at \$1,012 million, and \$31 million of miscellaneous receipts for contract work, etc. (mainly commissions for stemming, packing and redrying of leaf tobacco owned by others). The primary product specialization ratio for both 1954 and 1947 was 100 percent.

Excluded from the \$1,043 million value of production in 1954 are receipts for merchandising valued at \$179 million. Receipts for merchandising (products bought and resold without

further manufacture, i.e., tobacco not removed from original packages or processed, etc.) are excluded from value of shipments, cost of materials, and value added, but these activities are reflected in other industry statistics, mainly employment and inventory statistics.

Industry 2141's production of stemmed and redried tobacco for sale or interplant transfer was \$1,012 million and represented 99 percent of these products, valued at \$1,019 million, produced for sale or interplant transfer by all manufacturing industries. In 1947, this coverage ratio was 98 percent. Other manufacturing industries producing stemmed and/or redried tobacco for sale or interplant transfer in 1954 consisted mainly of Industry 2121, Cigars, \$3.4 million; and Industry 2131, Chewing and Smoking Tobacco, \$3.6 million. These figures exclude the market value (estimated at about \$500 million) of tobacco stemmed and/or redried on a commission basis by plants classified in Industry 2141. The commissions received for processing this tobacco are included in the miscellaneous receipts of Industry 2141. Excluded from these figures are the value of stemmed and redried tobacco produced in plants classified in Retail or Wholesale Trade, such as warehouses or merchant wholesalers, data for which are not available.

The general statistics (employment, payrolls, value of shipments, cost of materials, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products, and, for that matter, their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (Tables 1-4) with product statistics (Table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in Table 5A which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry made as secondary products by establishments in other industries.



## TOBACCO MANUFACTURES

21A-3

Table 1.—GENERAL STATISTICS FOR THE UNITED STATES: 1954 AND EARLIER YEARS  
(For explanation of column captions see Introduction)

Industry and census year	Establishments, number	All employees		Production workers		Value added by manufacture <sup>2</sup>	Cost of materials, etc. <sup>3</sup>	Value of shipments <sup>4</sup>
		Number <sup>1</sup>	Payroll (\$1,000)	Number <sup>1</sup>	Wages (\$1,000)			
Cigarettes (S.I.C. 2111):								
1954.....	519	29,987	103,779	27,694	91,067	677,252	963,698	1,640,950
1953 <sup>6</sup> .....	(NA)	30,414	98,144	27,905	85,450	661,575	1,005,247	1,666,822
1952 <sup>6</sup> .....	(NA)	29,342	90,921	26,689	78,329	543,596	1,003,983	1,547,579
1951 <sup>6</sup> .....	(NA)	27,794	82,708	25,449	71,861	541,452	940,260	1,481,712
1950 <sup>6</sup> .....	(NA)	27,743	75,546	25,420	65,306	493,049	860,038	1,353,087
1949 <sup>6</sup> .....	(NA)	28,459	72,005	26,234	62,724	466,458	831,046	1,297,504
1947.....	28	27,674	63,204	25,553	54,986	368,417	763,474	1,131,891
1939.....	35	30,803	33,668	27,426	26,068	226,679	268,815	495,494
1937.....	34	27,655	27,885	26,149	24,182	197,405	260,031	457,436
1933.....	27	23,816	18,191	22,544	13,835	134,216	147,350	281,566
1929.....	49	(NA)	(NA)	21,142	18,401	(7)	218,424	(7)
Cigars (S.I.C. 2121):								
1954.....	410	38,494	89,259	36,076	78,455	165,312	174,139	339,452
1953 <sup>6</sup> .....	(NA)	40,614	92,576	37,868	80,208	184,299	200,025	384,324
1952 <sup>6</sup> .....	(NA)	40,165	88,112	37,976	76,509	163,574	181,286	344,860
1951 <sup>6</sup> .....	(NA)	40,694	85,101	38,314	73,403	160,747	172,890	333,637
1950 <sup>6</sup> .....	(NA)	40,625	78,507	38,281	67,052	146,707	164,732	311,439
1949 <sup>6</sup> .....	(NA)	43,924	76,118	41,404	65,818	137,318	171,668	308,986
1947.....	822	47,068	76,344	44,512	68,402	143,145	168,256	311,401
1939.....	598	54,262	41,141	50,897	34,240	81,505	67,086	148,591
1937.....	693	58,910	43,200	55,879	37,522	81,896	74,482	156,378
1933 <sup>8</sup> .....	665	56,195	32,862	54,558	30,061	66,783	63,990	130,773
1929.....	1,587	(NA)	(NA)	84,166	67,222	(7)	138,354	(7)
Cigarettes and cigars, Total:								
1923.....	3,466	142,668	131,959	130,036	107,724	(7)	369,491	(7)
1921.....	4,146	144,711	128,962	133,357	108,161		452,212	
1919.....	9,926	150,633	133,706	138,773	111,313		353,297	
1914.....	13,515	164,163	82,676	152,892	68,306		130,530	
1909.....	15,362	(NA)	(NA)	139,578	60,432		102,720	
1899.....	14,522	(NA)	(NA)	103,365	40,866		57,828	
Chewing and smoking tobacco (S.I.C. 2131):								
1954.....	65	7,535	23,372	6,444	17,229	80,057	81,681	161,739
1953 <sup>6</sup> .....	(NA)	(NA)	19,988	(NA)	15,336	65,049	70,454	135,503
1952 <sup>6</sup> .....	(NA)	7,764	21,844	6,666	16,261	77,025	82,349	159,374
1951 <sup>6</sup> .....	(NA)	8,466	22,912	7,183	16,784	68,723	87,706	156,429
1950 <sup>6</sup> .....	(NA)	8,656	21,721	7,632	17,122	64,071	83,532	147,603
1949 <sup>6</sup> .....	(NA)	9,537	22,296	8,432	17,472	64,443	87,935	152,378
1947.....	73	11,139	22,676	9,725	17,616	57,571	82,571	140,142
1939.....	132	10,970	11,963	9,202	8,193	41,968	47,021	88,989
1937.....	125	11,286	11,291	10,130	8,587	45,759	51,475	97,234
1935.....	115	11,057	10,446	10,077	7,629	45,547	52,208	97,755
1933.....	112	10,779	8,291	10,223	7,037	48,988	46,913	95,901
1931.....	125	(NA)	(NA)	11,441	8,673	57,955	66,873	124,828
1929.....	152	11,864	12,237	10,811	8,955	(7)	72,494	(7)
1927.....	159	14,439	14,182	13,125	10,661		85,310	
1925.....	178	16,744	16,316	15,024	12,185		94,419	
1923.....	206	19,408	19,206	16,301	12,739		146,374	
1921.....	226	19,958	18,586	16,628	12,742		156,477	
1919.....	365	22,143	19,593	18,324	12,675	(7)	130,270	(7)
1914.....	436	31,531	17,304	25,980	9,550		76,604	
1909.....	460	(NA)	(NA)	27,232	8,923		74,466	
1904.....	433	26,097	9,232	23,990	6,775		44,954	
1899.....	437	32,529	10,994	29,161	7,110		35,038	
Tobacco stemming and redrying (S.I.C. 2141):								
1954.....	133	18,846	43,278	16,857	32,983	65,378	977,834	1,043,213
1952 <sup>6</sup> .....	(NA)	15,904	39,855	14,130	30,580	83,395	1,014,983	1,098,378
1951 <sup>6</sup> .....	(NA)	16,799	39,458	14,890	30,204	85,518	1,033,967	1,119,485
1949 <sup>6</sup> .....	(NA)	18,809	37,361	16,750	28,425	(NA)	(NA)	(NA)
1947.....	163	25,901	43,614	23,499	34,314	72,223	885,584	957,807

NA Not available.

<sup>1</sup>For 1954, all employees represents the average number for the payroll period ended nearest the fifteenth of each month; production workers was calculated by subtracting from this all employees total the average number of nonproduction employees for the four months for which such information was collected: March, May, August and November. For the period 1949-1953, both figures are based on average employment for these four months. For 1947, they represent the average of 12 monthly figures. For earlier years, the production worker average was calculated as in 1947, but the figure for all employees represents the sum of the annual average number of production workers and the number of nonproduction employees for one payroll period (usually in October).

<sup>2</sup>Value of products less cost of materials, supplies, fuel, electric energy and contract work. Internal Revenue taxes are not included in value added by manufacture. See Introduction "Value Added by Manufacture."

<sup>3</sup>The figures for cost of materials, etc., exclude Internal Revenue taxes for all years.

<sup>4</sup>For all years except 1929, value of production; for 1929, value of shipments. Internal Revenue taxes are not included. See Introduction "Value of shipments."

<sup>5</sup>The decrease in number of establishments from 1947 to 1954 reflects, in part, combined reports in 1954 for operations at a single location which had been reported separately in 1947, as well as the inclusion in retail or wholesale trade of certain small establishments, producing cigarettes on a custom basis in addition to their other activities (these establishments were included in manufacturing for 1947).

<sup>6</sup>The figures for 1949 to 1953 represent estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period. Estimates with a standard error in excess of 15 percent generally have been omitted from this table.

<sup>7</sup>The figures for value added by manufacture and value of products for 1929 and earlier years have been omitted because they contain Internal Revenue taxes.

<sup>8</sup>The coverage of Industry 2121, Cigars, was incomplete in 1933.

## MANUFACTURES - INDUSTRY STATISTICS

Table 2.—GENERAL STATISTICS BY REGIONS AND STATES: 1954 AND 1947  
(For explanation of column captions see Introduction)

Industry, region, and State <sup>1</sup>	1954											1947	
	Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
	Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
Cigarettes (S.I.C. 2111), total.....	19	19	29,987	103,779	27,694	53,643	91,067	677,252	963,698	1,640,450	20,362	27,674	368,417
South Atlantic.....	9	9	22,441	76,163	20,683	39,283	66,799	514,720	754,036	1,268,756	14,487	21,777	316,124
Virginia.....	5	5	8,273	28,415	7,600	14,767	24,773	177,449	261,083	438,532	4,432	7,725	118,548
North Carolina.....	4	4	14,168	47,748	13,083	24,516	42,026	337,271	492,952	830,224	10,055	14,052	197,576
East South Central.....	4	4	6,223	23,030	5,861	12,186	20,574	142,672	184,864	327,536	5,533	3,823	28,024
Kentucky.....	4	4	6,223	23,030	5,861	12,186	20,574	142,672	184,864	327,536	5,533	3,823	28,024
All Other Divisions.....	6	6	1,323	4,586	1,149	2,173	3,694	19,859	24,797	44,657	341	2,074	24,269
Cigars (S.I.C. 2121), total.....	410	291	38,494	89,259	36,076	65,720	78,455	165,312	174,139	339,452	2,884	47,068	143,145
New England.....	42	26	842	1,933	736	1,231	1,421	3,825	3,496	7,322	223	(D)	(D)
Connecticut.....	18	13	241	605	211	374	438	958	878	1,836	31	431	(D)
Middle Atlantic.....	205	151	19,059	45,135	17,766	32,428	40,088	89,265	93,441	182,707	1,132	24,003	(D)
Pennsylvania.....	103	89	15,359	36,139	14,346	26,489	32,404	72,831	76,415	149,246	1,006	18,271	62,842
North Central.....	69	45	2,762	6,710	2,475	4,429	5,106	13,922	9,388	23,310	176	4,493	16,629
Wisconsin.....	11	6	94	216	86	171	173	354	311	666	12	197	422
South and West.....	94	69	15,830	35,479	15,097	27,631	31,838	58,299	67,811	126,112	1,351	17,215	41,805
Chewing and smoking tobacco, (S.I.C. 2131), total.....	65	53	7,535	23,372	6,444	11,729	17,229	80,057	81,681	161,739	1,205	11,139	57,571
Northeast.....	23	14	490	1,614	404	765	1,097	5,759	3,860	9,619	222	(D)	(D)
New York.....	8	4	40	90	32	58	60	176	256	432	...	67	(D)
North Central.....	19	16	1,600	5,704	1,328	2,450	4,243	20,843	16,926	37,770	85	(D)	(D)
South and West.....	23	22	5,443	16,053	4,710	8,513	11,887	53,455	60,893	114,349	897	7,434	32,463
Kentucky.....	6	6	465	1,351	438	854	1,193	7,811	7,071	14,883	(D)	265	(D)
Tennessee.....	7	7	1,003	2,600	866	1,542	1,903	12,954	11,950	24,905	258	1,228	8,361
Tobacco stemming and redrying (S.I.C. 2141), total.....	133	130	18,846	43,278	16,857	31,894	32,983	65,378	977,834	1,043,213	3,566	25,901	72,223
Northeast.....	16	15	761	1,852	711	1,459	1,485	2,210	14,275	16,486	411	(D)	(D)
Pennsylvania.....	13	12	739	1,796	690	1,416	1,438	2,135	14,087	16,223	404	580	(D)
East North Central.....	7	7	376	783	339	680	695	1,628	2,932	4,560	138	(D)	(D)
Ohio.....	3	3	141	362	127	253	333	891	1,386	2,277	111	(D)	(D)
Wisconsin.....	4	4	235	421	212	427	362	737	1,546	2,283	27	...	...
South Atlantic.....	76	76	14,555	33,156	12,943	24,041	24,876	49,705	768,551	818,257	1,516	20,852	59,717
Virginia.....	19	19	4,303	9,376	3,865	6,854	7,187	13,877	205,915	219,792	374	6,109	13,738
North Carolina.....	49	49	9,501	22,355	8,342	15,685	16,368	33,740	545,930	579,671	1,119	13,993	44,237
East South Central.....	34	32	3,152	7,487	2,863	5,712	5,925	11,834	192,074	203,908	1,500	4,105	9,997

Note: Detailed figures may not add to the totals because of independent rounding.

<sup>1</sup> Withheld to avoid disclosing figures for individual companies.<sup>2</sup> General statistics for some producing States are not shown separately in the table (see INTRODUCTION "Confidentiality of Data for Individual Companies"). Such States are shown below with the number of establishments in each State for 1954 and, in parentheses, the number of employees or the employment-size range for that State for 1954:

S.I.C. 2111, Cigarettes: All Other Divisions--New York, 4 (100-249); New Jersey, 1 (500-999); Pennsylvania, 1 (100-249).

S.I.C. 2121, Cigars: New England--New Hampshire, 3 (250-499); Massachusetts, 20 (250-499); Rhode Island, 1 (1-19); Middle Atlantic--New York, 92 (100-2499); New Jersey, 10 (2,500-4,999); North Central--Ohio, 9 (1,000-2,499); Indiana, 8 (500-999); Illinois, 28 (100-249); Michigan, 6 (250-499); Minnesota, 1 (1-19); Missouri, 6 (20-99); South and West--Maryland, 2 (100-249); Virginia, 2 (500-999); West Virginia, 5 (500-999); North Carolina, 1 (100-249); South Carolina, 1 (1,000-2,499); Georgia, 2 (500-999); Florida, 56 (8524); Kentucky, 3 (500-999); Tennessee, 1 (100-249); Alabama, 2 (500-999); Louisiana, 3 (500-999); Texas, 3 (250-499); California, 13 (250-499).

S.I.C. 2131, Chewing and Smoking Tobacco: Northeast--Massachusetts, 1 (1-19); New Jersey, 2 (250-499); Pennsylvania, 12 (100-249); Ohio, 5 (100-249); Michigan, 3 (100-249); Wisconsin, 2 (1-19); Missouri, 4 (500-999); South and West--Delaware, 1 (20-99); Virginia, 4, (1,000-2,499); West Virginia, 1 (250-499); North Carolina, 3 (1,000-2,499); California, 1 (1-19).

S.I.C. 2141, Tobacco Stemming and Redrying: Northeast--Connecticut, 2 (1-19); New York, 1 (1-19); South Atlantic--South Carolina, 4 (250-499); Georgia, 1 (20-99); Florida, 3 (250-499); East South Central--Kentucky, 31 (3037); Tennessee, 3 (100-249).

## TOBACCO MANUFACTURES

Table 3.—DETAILED STATISTICS FOR THE UNITED STATES: 1954  
(For explanation of line captions see Introduction)

Item	Cigarettes (S.I.C. 2111)	Cigars (S.I.C. 2121)	Chewing and smoking tobacco (S.I.C. 2131)	Tobacco stemming and redrying (S.I.C. 2141)
Primary product specialization ratio <sup>1</sup> .....	99	99	96	100
Coverage ratio <sup>2</sup> .....	100	100	89	99
Number of establishments, total.....	19	410	65	133
With 1-19 employees.....	1	281	37	17
With 20-99 employees.....	3	52	10	51
With 100 employees and over.....	15	77	18	65
All employees:				
Number (average for year).....	29,987	38,494	7,535	18,846
Payroll.....\$1,000.....	103,779	89,259	23,372	43,278
Production workers:				
Number (average for year).....	27,694	36,076	6,444	16,857
Man-hours.....1,000.....	53,643	65,720	11,729	31,894
Wages.....\$1,000.....	91,067	78,455	17,229	32,983
Value added by manufacture.....do...	677,252	165,312	80,057	65,378
Cost of materials, etc.....do...	963,698	174,139	81,681	977,834
Value of shipments.....do...	1,640,950	339,452	161,739	1,043,213
Value added by resales.....do...	141	181	265	1,875
Cost of products bought and resold.....do...	1,099	2,652	2,272	176,941
Sales of products bought and resold.....do...	1,240	2,833	2,538	178,816
Total inventories, beginning of year.....do...	394,234	67,297	39,409	1,127,528
Total inventories, end of year.....do...	443,590	72,888	38,072	1,147,919
Capital expenditures, new.....do...	20,362	2,884	1,205	3,566
All employee (average for year), by month:				
January.....	29,595	37,718	7,630	23,052
February.....	29,327	38,637	7,480	16,290
March.....	29,414	38,354	7,619	12,865
April.....	29,180	37,733	7,484	9,493
May.....	29,191	38,045	7,454	10,550
June.....	29,575	38,524	7,457	9,518
July.....	29,819	37,680	7,523	12,169
August.....	30,733	38,393	7,566	25,882
September.....	30,599	39,483	7,552	27,189
October.....	30,970	39,332	7,605	28,090
November.....	30,608	39,182	7,500	26,086
December.....	30,833	38,847	7,550	24,962
Cost of materials, fuel, electricity and contract work, total.....\$1,000..	963,698	174,139	81,681	977,834
Materials, parts, containers, and supplies consumed.....do...	960,902	171,771	80,935	973,971
Fuels consumed, total.....do...	1,317	521	466	1,305
Bituminous coal and anthracite:				
Quantity.....1,000 short tons..	132	24	33	78
Value.....\$1,000.....	1,038	225	254	732
Coke:				
Quantity.....1,000 short tons..	...	...	22	...
Value.....\$1,000.....	...	...	33	...
Fuel oil:				
Quantity.....1,000 barrels..	86	76	16	84
Value.....\$1,000.....	260	243	43	248
Gas:				
Quantity.....Million cubic feet..	26	78	353	138
Value.....\$1,000.....	14	41	136	76
Other fuels:				
Value.....\$1,000.....	5	12	...	249
Electric energy:				
Purchased:				
Quantity.....Million kwh..	143	56	20	69
Cost.....\$1,000.....	1,479	1,031	261	1,031
Generated.....Million kwh..	39	...	3	...
Sold:				
Quantity.....Million kwh..	10	...	...	...
Value.....\$1,000.....	150	...	...	...
Cost of contract work.....\$1,000..	...	816	19	1,527

See footnotes at end of table.



## MANUFACTURES - INDUSTRY STATISTICS

Table 3.—DETAILED STATISTICS FOR THE UNITED STATES: 1954—Continued

Item	Cigarettes (S.I.C. 2111)	Cigars (S.I.C. 2121)	Chewing and smoking tobacco (S.I.C. 2131)	Tobacco stemming and redrying (S.I.C. 2141)
Manufacturers' inventories:				
Beginning of year, total.....\$1,000..	394,234	67,297	39,409	1,127,528
Finished products.....do..	26,372	15,703	6,560	} 31,127,528
Work-in-process.....do..	7,897	6,792	5,723	
Materials, supplies, fuel, etc.....do..	359,965	44,802	27,126	
End of year, total.....do..	443,590	72,888	38,072	1,147,919
Finished products.....do..	25,846	19,976	5,568	} 31,147,919
Work-in-process.....do..	7,623	5,392	6,012	
Materials, supplies, fuel, etc.....do..	410,121	47,520	26,492	
Expenditures for plant and equipment, total.....do..	23,320	3,002	1,311	3,607
Capital expenditures, new.....do..	20,362	2,884	1,205	3,566
New structures and additions to plant.....do..	3,054	458	213	1,284
New machinery and equipment.....do..	17,308	2,426	992	2,282
Expenditures for used plant and equipment.....do..	630	119	106	21
Horsepower rating of power equipment at end of 1954:				
Horsepower of prime movers and electric motors				
driven by purchased energy, total.....1,000 hp..	99	20	28	65
Engines, etc. driving electric generators.....do..	22	...	5	4
Engines, etc. not driving electric generators.....do..	5	...	1	8
Electric motors driven by purchased energy.....do..	72	20	21	53
Electric motors driven by energy generated at the establishment.....	19	...	3	...

NOTE: Detailed figures may not add to totals because of independent rounding.

<sup>1</sup>The specialization ratio compares the given industry's shipments of its primary products to its total shipments of all products. (The primary products are listed in Tables 5B and 6A; the first 4-digits of the product code represent the industry code to which the product is primary.)

<sup>2</sup>The coverage ratio measures the extent to which the total shipments of products primary to the given industry are shipped by establishments classified in that industry.

<sup>3</sup>Detail not available due to reporting difficulties.

Table 4.—SELECTED STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR THE UNITED STATES: 1954

(Value figures in thousands of dollars. For explanation of line captions see Introduction. Data which cannot be shown without disclosing information for individual companies have been combined with figures for other size classes. A (D) appears in the column where the figure has been omitted and the combined figure is underlined and shown in the size class to the left).

Ind. code	Industry and item	Total, all estab- lish- ments	Establishments with an average of—									
			1-4 em- ployees	5-9 em- ployees	10-19 em- ployees	20-49 em- ployees	50-99 em- ployees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
2111	Cigarettes:											
	Number of establishments..	19	...	1	...	1	2	2	...	1	11	1
	Number of employees.....	29,987	...	<u>541</u>	...	(D)	(D)	(D)	...	29,444	(D)	(D)
	Value added by manufacture	677,252	...	<u>6,082</u>	...	(D)	(D)	(D)	...	<u>671,169</u>	(D)	(D)
2121	Cigars:											
	Number of establishments..	410	206	50	25	30	22	28	26	17	6	...
	Number of employees.....	38,494	427	355	378	928	1,599	4,451	<u>21,041</u>	(D)	9,313	...
	Value added by manufacture	165,312	1,116	970	1,366	2,984	5,548	18,559	<u>93,417</u>	(D)	41,350	...
2131	Chewing and smoking tobacco:											
	Number of establishments..	65	23	6	8	5	5	9	7	1	1	...
	Number of employees.....	7,535	56	<u>2,484</u>	(D)	(D)	(D)	(D)	<u>4,992</u>	(D)	(D)	...
	Value added by manufacture	80,057	227	<u>23,262</u>	(D)	(D)	(D)	(D)	<u>56,565</u>	(D)	(D)	...
2141	Tobacco stemming and redrying:											
	Number of establishments..	133	5	5	7	20	31	47	14	3	1	...
	Number of employees.....	18,846	12	<u>151</u>	(D)	711	2,198	7,110	<u>8,661</u>	(D)	(D)	...
	Value added by manufacture	65,378	53	<u>528</u>	(D)	2,093	8,023	24,558	<u>30,120</u>	(D)	(D)	...

Note: Detailed figures may not add to the totals because of independent rounding.

## TOBACCO MANUFACTURES

21A-7

Table 5A.—INDUSTRY-PRODUCT ANALYSIS—SUMMARY OF INDUSTRY AND PRIMARY PRODUCT SHIPMENTS, SPECIALIZATION RATIOS AND COVERAGE RATIOS FOR THE UNITED STATES: 1954 AND 1947

Industry code	Industry and census year	Value of production					Value of primary products made			
		Total	Primary products	Secondary products	Miscellaneous receipts	Primary product specialization ratio <sup>1</sup> Col. B Col. E+B+C (Percent)	Total (made in all industries)	Made in this industry	Made in other industries	Coverage ratio <sup>2</sup> Col. G Col. F (Percent)
		(\$1,000) (A)	(\$1,000) (B)	(\$1,000) (C)	(\$1,000) (D)	(E)	(\$1,000) (F)	(\$1,000) (G)	(\$1,000) (H)	(I)
2111	Cigarettes.....1954..	1,640,950	1,621,829	18,901	220	99	1,623,895	1,621,829	2,066	100
	.....1947..	1,131,891	<sup>3</sup> 1,089,639	<sup>3</sup> 42,252	...	96	1,091,830	<sup>3</sup> 1,089,639	2,191	100
2121	Cigars.....1954..	339,452	333,123	3,952	2,377	99	333,273	333,123	150	100
	.....1947..	311,401	303,713	1,854	5,834	99	303,968	303,713	255	100
2131	Chewing and smoking tobacco..1954..	161,739	154,418	6,069	1,252	96	173,741	154,418	19,323	89
	.....1947..	140,142	137,230	<sup>3</sup> 2,912	...	98	159,869	137,230	22,639	86
2141	Tobacco stemming and redrying.....1954..	1,043,213	1,011,583	...	<sup>3</sup> 31,542	100	<sup>4</sup> 1,018,580	<sup>4</sup> 1,011,583	<sup>4</sup> 6,997	99
	.....1947..	957,807	896,605	...	<sup>5</sup> 61,202	100	<sup>4</sup> 918,450	<sup>4</sup> 896,605	<sup>4</sup> 21,845	96

<sup>1</sup>The specialization ratio compares the given industry's production of its primary products to its total production of all products (the primary products are listed in Tables 5B and 6A; the first 4 digits of the product code represents the industry to which the product is primary).

<sup>2</sup>The coverage ratio measures the extent to which the products primary to the given industry are made in the industry.

<sup>3</sup>Includes a negligible amount of miscellaneous receipts.

<sup>4</sup>Excludes tobacco stemmed and used in manufactured products in the same plant.

<sup>5</sup>Includes data for packing leaf, which were shown as "secondary products" in the 1947 chapter for these industries, but treated as "miscellaneous receipts" for 1954.

Table 5B.—INDUSTRY-PRODUCT ANALYSIS—VALUE OF PRODUCTION BY PRODUCT CLASS AND INDUSTRY, FOR THE UNITED STATES: 1954

(In thousands of dollars. Each column shows for the industry listed in the column heading, the value of shipments divided between tobacco products, other products and miscellaneous receipts. Each figure represents the amount of the product class shown at the left shipped by the industry listed at the top of the column. The first four digits of the product class codes at the left represent the codes of the industries to which they are primary. All other product classes in a column represent products secondary to the specified industry.

Prod. class code	Class of products and miscellaneous receipts	Value of production				
		Cigarettes (S.I.C. 2111)	Cigars (S.I.C. 2121)	Chewing and smoking tobacco (S.I.C. 2131)	Tobacco stemming and redrying (S.I.C. 2141)	All manufacturing industries
	Industry value of production.....	1,640,950	339,452	161,739	1,043,213	xxx
	Tobacco products:					
21110	Cigarettes.....	1,621,829	90	1,976	...	1,623,895
21210	Cigars.....	132	333,123	18	...	333,273
21310	Chewing and smoking tobacco, and snuff.....	18,769	466	154,418	88	173,741
21411	Tobacco, redried.....	...	1,517	2,587	346,341	350,445
21412	Tobacco, stemmed.....	...	1,845	1,048	665,242	668,135
	Other products not primary to Group 21.....	...	34	440	...	xxx
	Miscellaneous receipts.....	220	2,377	1,252	31,542	xxx
	Commission stemming, redrying, etc.....	83	61	...	25,151	xxx
	Warehousing and packing leaf tobacco.....	...	842	1,156	5,823	xxx
	Scrap and salable refuse.....	137	1,474	96	568	xxx

xxx Not applicable.

## MANUFACTURES - INDUSTRY STATISTICS

Table 6.--QUANTITY AND VALUE OF PRODUCTS SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, FOR THE UNITED STATES: 1954 AND 1947

Product code	Product	Unit of quantity	Total production					
			1954			1947		
			Quantity	Value excluding excise tax (\$1,000)	Value including excise tax (\$1,000)	Quantity	Value excluding excise tax (\$1,000)	Value including excise tax (\$1,000)
2111011	Cigarettes.....	Million.....	402,487	1,623,895	3,118,594	368,998	1,091,830	2,265,440
2121011	Cigars.....	...do.....	5,959	333,273	369,179	5,441	303,968	349,268
2131---	Chewing and smoking tobacco, total.....	.....	xxx	173,741	188,830	xxx	159,869	202,495
	Tobacco, smoking and chewing:							
2131011	Smoking.....	Thousand pounds	84,378	69,037	76,898	104,120	66,242	84,483
2131012	Fine-cut chewing and smoking.....	...do.....	2,951	3,471	3,751	3,879	2,630	3,327
2131013	Scrap chewing.....	...do.....	36,623	24,822	28,389	42,217	25,895	33,447
2131015	Twist chewing.....	...do.....	4,853	5,500	5,963	5,157	4,624	5,503
2131017	Plug chewing.....	...do.....	37,594	24,937	28,588	47,280	26,896	35,084
2131051	Snuff, packed for sale to consumers.....	...do.....	38,728	41,523	45,241	35,115	28,605	35,644
2131055	Snuff flour, not packed for sale to consumers...	...do.....	13,547	4,451	...			
2131098	Other chewing and smoking tobacco, and snuff products and products not specified by kind....	.....	...	...	...			
			Total production					
			1954			1947		
			Quantity	Value (\$1,000)		Quantity	Value (\$1,000)	
2141---	Leaf tobacco stemmed and redried, total.....	.....	xxx	1,018,580		xxx	918,450	
21411	Tobacco, redried.....	Thousand pounds	610,503	350,445		795,278	454,913	
2141111	Leaf tobacco packed for sale as such, unstemmed (packed weight), redried before packing.....	...do.....	302,303	140,000		192,779	100,428	
2141151	Leaf tobacco, for use in own manufacturing, unstemmed (packed weight), redried before packing.....	...do.....	308,200	210,445		602,499	354,485	
21412	Leaf tobacco, stemmed, and other stemmed tobacco products.....	.....	xxx	668,135		xxx	463,537	
	Leaf tobacco, stemmed.....	Thousand pounds	780,430	665,658		614,323	460,856	
	Stemmed for sale as such.....	...do.....	335,164	293,669		}		
2141211	Aged leaf.....	...do.....	232,591	204,417				
2141215	Leaf, not aged.....	...do.....	102,573	89,252				
	Stemmed for transfer to other establishments of same company.....	...do.....	445,266	371,989			(NA) (NA)	
2141221	Aged leaf.....	...do.....	197,058	161,019		}		
2141225	Leaf, not aged.....	...do.....	248,208	210,970				
2141231	Stemmed for use in manufacturing in the same establishment (stemmed weight).....	...do.....	4,274	...		(1)	...	
2141298	Other stemmed tobacco products (primarily cigar filler).....	...do.....	xxx	2,477		xxx	2,681	
9321411	Work done on materials owned by others: Redrying and packing leaf tobacco.....	...do.....	374,044	}				
	Stemming leaf tobacco:							
9321413	Aged leaf.....	...do.....	17,378			(NA)	(NA)	(NA)
9321415	Leaf, not aged.....	...do.....	144,774					
9321417	Other operations, tobacco.....	...do.....	60,836					

xxx Not applicable.

NA Not available.

D Withheld to avoid disclosing figures for individual companies.

4,274 thousand pounds of tobacco stemmed and/or redried and used in establishments primarily engaged in manufacturing cigarettes, cigars, and chewing and smoking tobacco was reported in 1954. The reporting form for 1947 did not request that information.



TABLES 6B, 7, AND 8 NOT APPLICABLE TO THIS BULLETIN

Table 9.--PUBLIC WAREHOUSE SPACE IN TOBACCO MANUFACTURING ESTABLISHMENTS: DECEMBER 31, 1954

Code	Major group and industry	Total		Occupied		Unoccupied	
		Estab- lishments, number	Warehouse space (1,000 sq. ft.)	Estab- lishments, number	Warehouse space (1,000 sq. ft.)	Estab- lishments, number	Warehouse space (1,000 sq. ft.)
21	Tobacco manufactures.....	53	5,552	52	4,535	22	1,007
2111	Cigarettes.....	2	(D)	2	(D)	...	...
2121	Cigars.....	20	389	19	(D)	4	(D)
2131	Tobacco, chewing and smoking.....	3	(D)	3	(D)	1	(D)
2141	Stemming and redrying tobacco.....	28	4,892	28	4,064	17	828

D Withheld to avoid disclosing figures for individual companies.









## Major Group 22.—Textile Mill Products

This major group includes establishments engaged in performing any of the following operations regardless of the type of fiber used: (1) manufacturing yarn, thread, cordage, and twine (2) manufacturing woven fabric, carpets and rugs, braids, laces, knit fabric, knit garments, carpets and rugs, and other products from yarn (3) dyeing and finishing fibers, yarn, and fabrics; (4) coating, waterproofing and otherwise treating fabric; and (5) manufacturing hard surface floor covering. Establishments weaving or knitting fabrics and also manufacturing finished apparel or other fabricated textile products in the same establishment are included in this major group; those manufacturing apparel and other fabricated textile products from

fabrics knit or woven elsewhere are classified in Major Group 23, Apparel and Related Products. Knitwear converters, buying raw materials, arranging for the knitting and finishing, and selling the final product are included as manufacturers in Group 225, Knitting Mills; however, other textile converters, jobbers, or dealers are classified in Trade Industries. Establishments primarily engaged in sponging, shrinking, burling or mending of cloth for the trade or employing home workers for hand-knitting or hand-weaving of textile products, are included in Industry 2399, Fabricated Textile Products, Not Elsewhere Classified. The rubberizing of fabrics is classified in Major Group 30, Rubber Products.

Table 1.—GENERAL STATISTICS FOR THE INDUSTRY GROUP: 1954 AND EARLIER YEARS  
(For explanation of column captions see Introduction)

Year <sup>1</sup>	Establish- ments, number	All employees <sup>2</sup>		Production workers			Value added by manufacture <sup>3</sup>	Capital expendi- tures, new	Horsepower of prime movers and electric motors <sup>4</sup>	
		Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
1954.....	8,070	1,037,440	3,032,490	947,502	1,821,075	2,526,564	4,748,586	225,914	4,595	
1953 <sup>5</sup> .....	(NA)	1,158,471	3,455,295	1,060,398	2,085,500	2,910,348	5,411,769	255,549		
1952 <sup>5</sup> .....	7,584	1,134,680	3,342,647	1,036,729	2,039,158	2,823,416	5,256,507	322,668		
1951 <sup>5</sup> .....	7,758	1,195,354	3,438,029	1,097,352	2,154,573	2,924,661	5,420,781	405,459		(NA)
1950 <sup>5</sup> .....	8,434	1,245,152	3,363,486	1,142,433	2,300,652	2,861,104	5,642,106	420,183		
1949 <sup>5</sup> .....	(NA)	1,169,812	2,973,327	1,065,473	2,070,909	2,509,922	4,740,938	418,545		
1947.....	8,157	1,232,293	2,832,706	1,146,293	2,306,636	2,447,857	5,322,899	367,510	3,670	
1939 <sup>6</sup> .....	6,388	(NA)	(NA)	1,081,710	(NA)	906,927	1,817,996	(NA)		
1937 <sup>6</sup> .....	6,096	(NA)	(NA)	1,138,219		974,256	1,786,311	(NA)		
1935.....	6,433	1,129,651	986,100	1,069,569		846,742	1,461,150	(NA)		
1933.....	5,957	(NA)	(NA)	971,557		664,456	1,341,976	(NA)		
1931.....	6,490	(NA)	(NA)	904,159		762,239	1,525,144	(NA)	(NA)	
1929.....	7,415	1,189,644	1,292,650	1,120,200	(NA)	1,082,260	2,320,874			
1927.....	7,633	1,207,750	1,314,012	1,143,017		1,128,270	2,272,507			
1925.....	7,892	1,200,782	1,272,442	1,134,667		1,093,269	2,211,636			
1923.....	8,249	1,262,849	1,344,904	1,190,295		1,151,510	2,413,226			
1921.....	7,695	1,072,116	1,070,686	1,012,384		916,387	1,823,643			
1919.....	7,869	1,139,341	1,108,425	1,076,104		932,462	2,299,921			
1914.....	6,756	1,013,494	476,467	975,583		416,919	781,373			
1909.....	6,490	(NA)	(NA)	932,247		361,971	752,347			
1904.....	5,798	813,327	307,017	785,993		270,756	514,977			
1899.....	5,930	716,028	249,791	697,505		224,361	441,305			

NA Not available.

<sup>1</sup>In addition to data for operating establishments, manufacturers' central administrative offices and auxiliary units reported 12,782 employees with a payroll of \$81,094 thousand in 1954. Similar data are shown for the years 1949-1953 in the Annual Survey of Manufactures volumes. Data for these units are not available for the years prior to 1949.

<sup>2</sup>The figures for 1939 through 1954 include data for employees of manufacturing establishments who were engaged in distribution and construction work. The extent to which data for such employees are included in the figures for earlier years is not known.

<sup>3</sup>Value of products less cost of materials, supplies, fuel, electricity, and contract work. For 1899-1933, cost of contract work was not subtracted from value of products in calculating value added by manufacture.

<sup>4</sup>Driven by purchased energy.

<sup>5</sup>The figures for 1949-1953 represent estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in The Annual Survey of Manufactures volumes for this period.

<sup>6</sup>The figures for 1939 and 1937 include data for establishments that cut and stitch products from knit cloth made in separate mills of integrated companies. For other years, data for these establishments are included in the figures for the apparel and related products industries.

## MANUFACTURES—INDUSTRY STATISTICS

Table 2.—GENERAL STATISTICS FOR INDUSTRY GROUPS BY REGIONS AND STATES: 1954 AND 1947  
(For explanation of column captions see Introduction)

Industry group, region, and State <sup>1</sup>	1954								1947	
	Number of establish- ments	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
		Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
Textile mill products, (S.I.C. Group 22), total.	8,070	1,037,440	3,032,490	947,502	1,821,075	2,526,564	4,748,586	225,914	1,232,293	5,322,899
New England.....	1,383	168,194	558,124	149,959	294,738	453,406	844,484	27,316	281,939	1,224,525
Maine.....	73	19,241	59,793	17,645	34,940	51,456	92,854	2,350	25,810	116,512
New Hampshire.....	112	13,762	43,609	12,468	24,826	36,428	67,799	1,921	20,310	85,099
Vermont.....	20	2,279	7,297	2,112	4,151	6,445	7,581	( <sup>2</sup> )	4,702	17,474
Massachusetts.....	571	70,031	233,391	62,613	122,837	188,729	357,659	12,023	129,929	553,910
Rhode Island.....	383	35,981	119,986	32,086	63,058	97,009	179,107	6,332	62,336	277,033
Connecticut.....	224	46,897	94,046	23,032	44,924	73,338	139,481	4,546	38,852	174,497
Middle Atlantic.....	3,710	213,105	729,910	186,949	360,849	568,052	1,187,747	45,913	292,278	1,370,733
New York.....	1,707	66,184	232,524	56,821	109,758	172,904	414,191	13,976	90,126	421,225
New Jersey.....	786	46,117	178,588	39,863	80,011	139,050	275,622	10,380	62,804	323,657
Pennsylvania.....	1,217	100,803	318,797	90,265	171,079	256,097	497,933	21,556	139,348	625,851
East North Central.....	370	35,535	125,977	30,191	58,854	91,251	218,079	7,435	46,284	215,705
Ohio.....	98	11,631	42,454	10,111	19,833	32,044	80,649	2,850	10,868	58,183
Indiana.....	22	2,701	8,383	2,168	4,067	5,738	13,608	( <sup>2</sup> )	6,577	24,999
Illinois.....	126	10,080	36,836	8,287	16,456	25,299	61,885	2,141	11,733	58,980
Michigan.....	46	3,451	13,479	2,962	5,875	10,251	22,175	1,126	5,996	31,058
Wisconsin.....	78	7,670	24,825	6,660	12,621	17,918	39,759	893	11,110	42,485
West North Central.....	75	6,656	20,264	5,394	10,159	13,973	32,381	1,292	8,374	28,279
Minnesota.....	28	2,944	9,603	2,164	4,046	5,855	14,822	759	4,678	15,456
Iowa.....	9	506	1,427	443	843	1,116	2,384	( <sup>2</sup> )	(D)	(D)
Missouri.....	35	3,164	9,126	2,752	5,211	6,922	15,017	( <sup>2</sup> )	2,888	9,972
South Atlantic.....	1,873	501,674	1,311,353	470,564	900,017	1,154,635	2,009,533	120,074	484,285	2,021,825
Delaware.....	30	2,657	9,397	2,240	4,454	6,827	16,245	( <sup>2</sup> )	2,772	12,320
Maryland.....	49	4,135	11,785	3,641	7,298	9,836	18,537	594	6,168	24,517
Virginia.....	122	37,032	106,468	33,562	65,025	88,872	163,399	10,315	33,881	167,151
West Virginia.....	7	2,355	5,894	1,997	3,500	4,410	8,233	( <sup>2</sup> )	3,917	14,531
North Carolina.....	1,030	222,851	564,483	209,929	389,815	498,156	861,554	43,538	210,350	846,280
South Carolina.....	280	129,091	360,738	122,004	245,985	323,965	559,826	34,217	124,559	558,680
Georgia.....	328	103,079	251,339	96,767	183,126	221,595	379,814	30,294	102,535	398,023
Florida.....	27	471	1,247	420	810	972	1,923	( <sup>2</sup> )	~ 103	323
East South Central.....	321	88,715	216,983	83,520	154,580	190,260	340,936	17,396	97,002	368,172
Kentucky.....	22	3,690	9,294	3,390	6,389	7,933	17,310	798	3,586	12,744
Tennessee.....	158	33,365	84,412	30,926	58,908	72,087	141,062	6,684	36,000	121,388
Alabama.....	113	46,440	110,876	44,288	79,876	99,292	166,535	7,294	52,143	216,373
Mississippi.....	28	5,220	12,401	4,915	9,404	10,946	16,027	2,618	5,273	17,667
West South Central.....	102	14,458	36,453	13,415	26,962	31,257	56,991	3,669	12,533	44,233
Arkansas.....	15	2,258	5,087	2,100	3,962	4,361	7,100	( <sup>2</sup> )	(D)	(D)
Texas.....	67	8,636	22,209	8,006	16,548	18,990	33,754	2,870	8,438	29,838
Mountain.....	11	379	1,133	318	652	786	1,515	( <sup>2</sup> )	633	1,604
Utah.....	6	246	638	215	431	472	856	( <sup>2</sup> )	517	1,241
Pacific.....	225	8,721	32,290	7,187	14,260	22,941	56,917	2,773	8,965	47,823
Washington.....	17	594	1,999	536	1,060	1,707	3,203	( <sup>2</sup> )	573	2,649
Oregon.....	17	2,759	10,440	2,152	4,345	6,555	14,411	661	3,066	12,825
California.....	191	5,368	19,850	4,498	8,855	14,678	39,302	1,989	5,326	32,349
Woolen and worsted manu- facture (Census group <sup>3</sup> 221), total.....	644	91,535	305,766	82,090	162,494	250,221	452,906	18,715	179,740	786,346
New England.....	347	45,659	155,990	41,513	82,388	131,427	223,390	7,061	112,346	486,969
Maine.....	38	5,345	17,128	4,930	9,990	14,811	22,080	751	11,889	54,689
New Hampshire.....	34	5,123	17,246	4,709	9,491	14,868	25,164	950	8,099	33,894
Vermont.....	12	1,675	5,506	1,549	3,089	4,908	5,924	( <sup>2</sup> )	3,478	12,661
Massachusetts.....	130	19,335	68,991	17,413	34,788	57,164	100,963	3,413	52,551	227,481
Rhode Island.....	98	10,483	34,001	9,536	18,082	28,552	47,223	1,460	28,336	120,935
Connecticut.....	35	3,696	13,117	3,373	6,945	11,122	22,034	( <sup>2</sup> )	7,993	37,309
Middle Atlantic.....	155	18,942	68,517	16,094	31,025	51,522	93,021	4,149	40,943	183,703
New York.....	53	5,391	20,252	4,619	9,266	14,972	32,948	1,950	10,227	47,298
New Jersey.....	24	6,876	25,097	5,596	10,690	18,935	28,719	682	14,768	60,452
Pennsylvania.....	78	6,674	23,168	5,877	11,068	17,614	31,353	1,517	15,948	75,953
East North Central.....	38	5,457	17,856	4,860	9,291	13,992	26,655	691	7,471	38,391
Ohio.....	13	3,535	11,359	3,215	6,133	9,416	17,990	( <sup>2</sup> )	3,793	21,907
Michigan.....	6	483	1,758	422	768	1,279	2,057	( <sup>2</sup> )	879	3,978
Wisconsin.....	13	705	2,397	593	1,145	1,666	3,386	( <sup>2</sup> )	1,281	4,784
West North Central.....	7	505	1,491	442	838	1,149	2,671	( <sup>2</sup> )	1,021	3,171
Minnesota.....	4	212	671	169	321	448	1,345	( <sup>2</sup> )	697	2,270

See footnotes at end of table.



## TEXTILE MILL PRODUCTS

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Table 2.—GENERAL STATISTICS FOR INDUSTRY GROUPS BY REGIONS AND STATES: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Industry group, region, and State <sup>1</sup>	1954								1947	
	Number of establish- ments	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
		Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
Woolen and worsted manufac- ture (Census group <sup>3</sup> 221)— Continued										
South Atlantic.....	65	17,672	51,515	16,227	33,100	43,770	90,911	6,088	(D)	(D)
Virginia.....	12	2,702	6,808	2,451	4,672	5,678	13,558	( <sup>2</sup> )	1,873	8,497
North Carolina.....	20	6,474	19,467	5,998	12,100	16,607	29,599	1,153	5,759	23,212
South Carolina.....	16	3,212	9,472	2,959	6,288	8,120	16,036	1,521	1,605	6,364
Georgia.....	9	4,386	12,589	3,974	8,244	10,665	25,454	2,662	2,752	12,110
East South Central.....	9	1,468	4,201	1,311	2,633	3,239	6,901	( <sup>2</sup> )	(D)	(D)
West South Central.....	4	112	293	100	184	223	499	( <sup>2</sup> )	(D)	(D)
Texas.....	4	112	293	100	184	223	499	( <sup>2</sup> )	(D)	(D)
West.....	19	1,717	5,900	1,542	3,038	4,898	8,856	( <sup>2</sup> )	2,468	11,206
California.....	8	112	409	92	173	274	673	( <sup>2</sup> )	394	1,664
Yarn and thread mills (Census group <sup>3</sup> 222), total.....	591	111,024	267,620	104,016	189,094	231,616	415,492	30,256	150,909	560,103
New England.....	71	8,397	25,116	7,349	13,729	19,090	37,054	895	(D)	(D)
New Hampshire.....	4	225	713	210	397	541	1,218	( <sup>2</sup> )	1,257	3,494
Massachusetts.....	33	2,823	8,535	2,513	4,657	6,485	13,506	(D)	10,689	40,865
Connecticut.....	13	2,685	7,835	2,333	4,396	6,124	12,019	(D)	2,642	12,103
Middle Atlantic.....	161	9,160	26,092	8,096	15,273	20,201	39,020	2,313	(D)	(D)
New York.....	65	2,372	7,625	1,898	3,311	4,894	11,542	( <sup>2</sup> )	3,461	13,907
New Jersey.....	27	568	1,558	514	944	1,254	2,201	( <sup>2</sup> )	(D)	(D)
Pennsylvania.....	69	6,219	16,908	5,683	11,018	14,053	25,276	1,761	10,858	34,176
All other divisions.....	359	93,466	216,411	88,570	160,089	192,324	339,415	27,046	116,271	425,154
Illinois.....	4	454	1,194	390	732	905	1,908	( <sup>2</sup> )	(D)	(D)
North Carolina.....	218	51,653	116,186	49,167	88,035	103,364	176,138	11,390	60,132	220,211
Tennessee.....	11	3,965	10,153	3,740	7,356	9,131	22,478	1,404	(D)	(D)
Alabama.....	24	7,057	16,075	6,786	11,398	14,614	23,733	841	10,056	33,390
Broad-woven fabrics (Census group <sup>3</sup> 223), total.....	1,060	386,188	1,055,884	363,666	704,516	937,125	1,550,272	68,195	427,844	1,937,020
New England.....	164	48,780	147,941	44,916	85,971	126,982	214,146	4,942	(D)	(D)
Maine.....	13	12,599	38,833	11,497	22,457	33,250	62,057	1,156	12,378	55,088
New Hampshire.....	14	4,138	13,560	3,826	7,648	11,723	22,559	( <sup>2</sup> )	8,128	36,952
Massachusetts.....	67	21,252	61,107	19,864	37,156	53,465	80,888	2,415	36,003	154,364
Connecticut.....	23	5,537	18,322	4,777	9,102	14,396	21,933	572	8,720	35,436
Middle Atlantic.....	356	20,069	66,661	18,264	35,961	54,879	100,858	2,650	(D)	(D)
New York.....	70	1,549	5,785	1,339	2,562	4,018	11,941	( <sup>2</sup> )	6,144	30,650
New Jersey.....	143	4,857	16,924	4,350	8,184	13,421	27,781	841	7,618	40,725
Pennsylvania.....	143	13,662	43,951	12,575	25,214	37,439	61,136	1,582	19,614	88,084
All other divisions.....	540	317,337	841,280	300,485	582,583	755,261	1,235,266	60,602	(D)	(D)
Illinois.....	11	333	1,137	298	596	843	1,503	( <sup>2</sup> )	184	960
Maryland.....	3	1,174	3,664	999	1,954	2,703	4,288	(D)	1,025	3,184
Virginia.....	27	19,118	56,213	17,493	34,069	47,408	79,927	3,580	20,685	109,478
North Carolina.....	155	91,426	242,742	86,389	164,306	217,967	364,185	15,757	84,602	395,325
South Carolina.....	158	102,790	284,042	97,982	197,571	259,061	429,327	22,806	103,965	479,112
Georgia.....	90	56,249	139,655	53,280	101,484	125,163	192,457	8,945	53,717	218,968
Tennessee.....	8	5,058	14,751	4,654	9,592	12,566	21,111	1,407	6,676	30,404
Alabama.....	38	28,978	69,501	27,732	49,880	62,810	100,887	4,721	32,345	150,712
Texas.....	19	5,681	13,783	5,461	11,430	12,704	19,960	2,482	6,337	21,162
Narrow fabric mills (S.I.C. Group 224), total.....	513	25,676	79,063	22,862	44,962	61,456	121,547	4,802	28,080	110,571
Knitting mills (S.I.C. Group 225), total.....	3,045	221,364	597,319	201,977	371,029	488,095	938,138	39,982	229,303	850,963
New England.....	140	10,224	30,842	8,960	17,807	23,337	51,247	2,129	10,993	41,576
New Hampshire.....	25	2,167	5,654	1,903	3,610	4,195	8,353	( <sup>2</sup> )	1,564	5,281
Massachusetts.....	68	5,499	17,044	4,755	9,173	12,502	27,815	985	6,278	24,849
Rhode Island.....	12	699	2,165	608	1,237	1,678	4,038	( <sup>2</sup> )	857	2,605
Connecticut.....	28	1,638	5,367	1,493	3,413	4,524	10,138	507	1,239	5,997
Middle Atlantic.....	1,776	77,555	229,465	69,663	128,025	181,037	378,811	14,002	89,026	379,335
New York.....	908	29,443	94,421	25,902	47,835	70,458	171,209	6,013	31,099	137,028
New Jersey.....	215	6,541	20,866	5,985	11,169	17,516	32,693	1,693	7,276	31,631
Pennsylvania.....	652	41,570	114,177	37,776	69,021	93,063	174,908	6,296	50,651	210,676
East North Central.....	112	12,569	38,095	10,935	20,251	27,349	57,570	1,329	20,042	73,733
Indiana.....	7	1,548	4,790	1,186	2,165	3,046	6,693	( <sup>2</sup> )	4,062	15,642
Illinois.....	28	2,077	5,886	1,829	3,320	4,461	9,101	( <sup>2</sup> )	2,854	9,364
Wisconsin.....	39	5,290	16,319	4,645	8,668	11,786	25,417	( <sup>2</sup> )	8,252	29,934

See footnotes at end of table.

## MANUFACTURES—INDUSTRY STATISTICS

Table 2.—GENERAL STATISTICS FOR INDUSTRY GROUPS BY REGIONS AND STATES: 1954 AND 1947—Continued  
(For explanation of column captions, see Introduction)

Industry group, region, and State <sup>1</sup>	1954							1947		
	Number of establish- ments	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
		Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
Knitting mills (S.I.C. Group 225)—Continued										
West North Central.....	22	2,780	8,704	2,053	3,779	5,531	9,686	( <sup>2</sup> )	3,852	12,395
Minnesota.....	13	2,222	7,236	1,561	2,868	4,336	7,212	( <sup>2</sup> )	3,126	9,715
Iowa.....	4	203	571	162	304	413	1,135	(D)	(D)	(D)
South Atlantic.....	730	82,305	202,446	77,154	139,877	176,955	307,486	16,146	71,649	240,082
Delaware.....	20	421	1,133	387	747	959	1,811	( <sup>2</sup> )	(D)	(D)
Virginia.....	54	6,973	18,010	6,438	11,778	15,418	27,327	1,942	6,372	23,846
North Carolina.....	529	60,313	149,739	56,823	102,868	131,615	229,648	11,733	49,685	164,063
South Carolina.....	27	1,909	4,988	1,760	3,283	4,170	6,810	( <sup>2</sup> )	1,165	4,245
Georgia.....	69	10,188	22,820	9,535	17,281	19,966	32,986	1,909	10,256	32,544
Florida.....	10	231	653	209	379	535	1,077	(D)	(D)	(D)
East South Central.....	160	31,267	72,796	29,386	54,080	63,974	111,163	5,044	29,072	85,143
Kentucky.....	8	2,524	5,934	2,344	4,343	5,368	11,640	691	1,252	3,898
Tennessee.....	102	19,665	45,715	18,451	33,654	39,884	67,752	2,862	20,552	56,606
Alabama.....	30	5,952	13,462	5,658	10,368	12,000	20,846	960	5,190	18,066
Mississippi.....	20	3,125	7,685	2,931	5,714	6,721	10,924	530	2,078	6,573
West South Central.....	15	1,658	4,311	1,504	2,692	3,424	5,656	( <sup>2</sup> )	1,291	4,050
Texas.....	8	938	2,844	824	1,483	2,148	3,912	( <sup>2</sup> )	683	3,031
Mountain.....	6	282	827	239	490	587	1,115	( <sup>2</sup> )	428	950
Pacific.....	84	2,722	9,832	2,081	4,017	5,896	15,401	572	2,950	13,699
Finishing textiles, except wool (Census group <sup>3</sup> 226), total <sup>4</sup> .....	725	79,308	292,324	68,485	142,839	228,262	464,165	21,900	77,985	359,270
Carpets and rugs (S.I.C. Group 227), total.....	327	51,194	185,340	43,756	86,096	145,202	360,856	23,916	57,079	330,580
New England.....	55	6,063	22,518	5,186	10,365	17,747	38,813	1,438	7,148	36,184
New Hampshire.....	4	137	402	115	231	296	572	(D)	(D)	(D)
Massachusetts.....	31	2,419	8,756	2,118	4,370	7,073	17,924	534	(D)	(D)
Rhode Island.....	11	306	895	289	568	705	1,408	( <sup>2</sup> )	140	813
Middle Atlantic.....	105	29,211	115,104	24,665	48,481	90,744	223,643	11,594	40,394	244,721
New York.....	20	9,069	33,365	7,493	14,712	26,173	67,341	1,407	17,354	86,651
New Jersey.....	17	5,091	20,516	4,309	8,494	16,172	38,211	2,485	6,309	46,485
Pennsylvania.....	68	15,049	61,223	12,863	25,274	48,399	118,090	7,701	16,731	111,585
North Central.....	24	2,814	10,500	2,234	4,319	7,204	17,269	( <sup>2</sup> )	2,846	14,939
Ohio.....	6	231	1,061	185	388	727	2,511	( <sup>2</sup> )	(D)	(D)
South.....	107	11,538	31,224	10,370	20,357	24,943	68,828	9,690	6,691	34,736
Tennessee.....	9	597	1,763	527	1,063	1,069	3,140	( <sup>2</sup> )		
Alabama.....	4	141	266	131	263	230	485	( <sup>2</sup> )		
Pacific.....	36	1,567	5,993	1,299	2,572	4,562	12,302	863		
Hats, except cloth and mil- linery (S.I.C. Group 228), total.....	201	12,988	40,897	11,239	20,411	32,169	61,886	850	21,388	91,900
New England.....	47	5,030	16,254	4,155	7,271	12,235	21,715	( <sup>2</sup> )	(D)	(D)
Massachusetts.....	8	860	2,569	763	1,411	2,037	3,486	(D)	(D)	(D)
Connecticut.....	39	4,170	13,685	3,391	5,859	10,198	18,228	(D)	6,561	35,610
Middle Atlantic.....	115	5,053	17,353	4,566	8,105	13,844	26,519	( <sup>2</sup> )	(D)	(D)
New York.....	77	1,387	4,749	1,228	2,381	3,575	7,535	( <sup>2</sup> )	2,943	13,548
New Jersey.....	24	618	1,893	551	984	1,410	2,942	( <sup>2</sup> )	(D)	(D)
Pennsylvania.....	14	3,048	10,711	2,786	4,739	8,858	16,041	( <sup>2</sup> )	4,897	18,490
East North Central.....	9	359	829	342	589	737	1,482	( <sup>2</sup> )	(D)	(D)
West North Central.....	7	715	1,994	647	1,302	1,596	3,011	( <sup>2</sup> )	(D)	(D)
Missouri.....	7	715	1,994	647	1,302	1,596	3,011	( <sup>2</sup> )	(D)	(D)
South.....	16	1,726	4,126	1,446	3,000	3,565	8,692	( <sup>2</sup> )	2,048	7,197
Texas.....	9	999	2,951	831	1,659	2,029	5,099	( <sup>2</sup> )		
Pacific.....	7	103	339	81	142	190	466	( <sup>2</sup> )		
California.....	7	103	339	81	142	190	466	( <sup>2</sup> )		

See footnotes at end of table.

## TEXTILE MILL PRODUCTS

22-5

Table 2.—GENERAL STATISTICS FOR INDUSTRY GROUPS BY REGIONS AND STATES: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Industry group, region, and State <sup>1</sup>	1954							1947		
	Number of establish- ments	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
		Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
Miscellaneous textile goods (S.I.C. Group 229), total:..	964	58,159	208,274	49,407	99,630	152,413	383,320	17,296	59,965	296,146
New England.....	265	12,210	44,696	10,368	20,949	32,974	80,347	3,907	13,728	68,414
Maine.....	11	420	1,213	383	829	1,046	2,306	( <sup>2</sup> )	(D)	(D)
Massachusetts.....	128	6,250	23,446	5,168	10,832	16,782	46,311	2,024	6,845	34,244
Rhode Island.....	89	3,998	14,484	3,546	6,886	11,175	23,366	1,359	3,972	21,470
Connecticut.....	32	1,284	4,767	1,048	1,959	3,393	7,415	( <sup>2</sup> )	2,037	8,701
Middle Atlantic.....	352	20,682	76,390	17,487	34,945	55,327	129,950	4,977	22,131	105,689
New York.....	194	8,357	31,806	6,928	14,167	22,696	56,152	2,531	8,526	39,883
New Jersey.....	91	6,184	25,294	5,198	10,709	18,280	43,278	1,701	5,771	28,720
Pennsylvania.....	67	6,140	19,289	5,360	10,069	14,350	30,518	745	7,834	37,086
East North Central.....	122	10,573	45,646	8,575	18,097	32,181	89,853	4,448	10,880	67,804
Ohio.....	29	3,101	14,337	2,494	5,369	10,305	32,259	1,642	2,575	16,720
Indiana.....	7	497	1,790	410	816	1,288	3,674	( <sup>2</sup> )	360	1,387
Illinois.....	47	4,134	17,741	3,256	6,946	11,467	32,314	1,604	4,517	27,998
Michigan.....	23	2,109	9,045	1,794	3,699	6,987	16,586	947	2,671	17,584
Wisconsin.....	16	731	2,731	620	1,266	2,132	5,018	( <sup>2</sup> )	757	4,115
West North Central.....	25	1,476	4,668	1,218	2,452	3,162	11,741	540	1,522	6,335
Missouri.....	13	1,113	3,547	911	1,858	2,381	6,447	( <sup>2</sup> )	1,162	4,952
South Atlantic.....	87	6,860	17,130	6,237	12,036	13,598	27,595	1,571	6,334	24,021
Delaware.....	4	492	1,566	443	849	1,267	2,403	( <sup>2</sup> )	(D)	(D)
Maryland.....	13	756	2,346	609	1,203	1,540	3,077	( <sup>2</sup> )	(D)	(D)
East South Central.....	24	2,608	6,944	2,402	4,664	5,832	16,034	720	2,506	9,817
Tennessee.....	11	768	2,374	704	1,582	2,035	5,584	( <sup>2</sup> )	(D)	(D)
Alabama.....	7	1,541	3,661	1,446	2,601	3,163	8,906	( <sup>2</sup> )	1,799	6,360
West South Central.....	37	1,890	5,444	1,598	3,354	4,121	13,005	( <sup>2</sup> )	1,008	3,435
Louisiana.....	14	744	2,281	624	1,173	1,739	7,744	(D)	(D)	(D)
Texas.....	20	866	2,268	762	1,747	1,842	4,078	(D)	744	2,651
West.....	52	1,857	7,355	1,519	3,130	5,216	14,794	761	1,856	10,631
Oregon.....	3	105	290	92	179	220	339	( <sup>2</sup> )	(D)	(D)
California.....	42	1,655	6,775	1,353	2,809	4,805	13,936	751	1,566	9,151

NOTE: Detailed figures may not add to the totals because of independent rounding.

<sup>1</sup> D Withheld to avoid disclosing figures for individual companies.<sup>2</sup> Each producing state not shown separately has been withheld either (a) to avoid disclosing figures for individual companies; or (b) because the state had less than 100 employees in the industry group. Such state figures are included, however, in the appropriate divisional and United States totals.<sup>3</sup> Less than \$500 thousand.<sup>4</sup> The Census industries in the textile area are in greater detail than the Standard Industrial Classification. In order to provide this additional detail, sub-industries were established which are comparable to the S.I.C. in total. Some of the textile industries were also renumbered to provide totals for woolen and worsted manufactures, and cotton and related manufactures. The Census industry groups are shown below together with the comparable Census and S.I.C. industries.

Census Group	Census Industry	Standard Industrial Classification Industry
221 Woolen and Worsted Manufacture	2211 Scouring and Combing Plants	2211 Scouring and Combing Plants
	2212 Yarn Mills, Wool, Except Carpet	2221 (Part) Yarn Mills
	2213 Woolen and Worsted Fabrics	2232 Woolen and Worsted Fabrics
	2216 Finishing Wool Textiles	2262 Finishing Wool Textiles
222 Yarn and Thread Mills	2222 Yarn Throwing Mills	2222 Yarn Throwing Mills
	2223 Thread Mills	2223 Thread Mills
	2224 Yarn Mills, Cotton System	2221 (Part) Yarn Mills
223 Broad-Woven Fabrics	2233 Cotton Broad-Woven Fabrics	2231 Broad-woven fabric mills (cotton, silk, and synthetic fibers)
	2234 Synthetic Broad-Woven Fabrics	
226 Finishing Textiles, Except Wool	2261 Finishing Textiles, Except Wool	2261 Finishing Textiles, Except Wool

<sup>4</sup> This industry sub-group consists of a single four-digit industry. Detailed data by state are included in the four-digit industry tables.



## MANUFACTURES--INDUSTRY STATISTICS

Table 3.--DETAILED STATISTICS FOR THE INDUSTRY GROUP: 1954

(For explanation of line captions see Introduction)

Item	Major industry group 22	Item	Major industry group 22
Number of establishments, total.....	8,070	Cost and quantity of purchased fuel and electricity--Con.	
With 1-19 employees.....	3,208	Electric energy:	
With 20-99 employees.....	2,620	Purchased:	
With 100 employees and over.....	2,242	Quantity.....million kwh..	11,105
All employees:		Cost.....\$1,000..	114,758
Number (Average for year).....	1,037,440	Generated.....million kwh..	1,454
Payroll.....\$1,000..	3,032,490	Sold:	
Production workers:		Quantity.....do....	237
Number (average for year).....	947,502	Value.....\$1,000..	2,154
Man-hours.....1,000..	1,821,075	Manufacturers' inventories:	
Wages.....\$1,000..	2,526,564	Beginning of year, total.....do....	2,251,776
Value added by manufacture.....do....	4,748,586	Finished products.....do....	840,705
Value added by resales.....do....	36,574	Work-in-process.....do....	593,535
Number of employees for selected months:		Materials, supplies, fuel, etc.....do....	817,504
March.....	1,038,813	End of year, total.....do....	2,146,780
May.....	1,024,969	Finished products.....do....	783,510
August.....	1,037,493	Work-in-process.....do....	574,820
November.....	1,047,643	Materials, supplies, fuel, etc.....do....	788,417
Cost and quantity of purchased fuel and electricity:		Expenditures for plant and equipment:	
Fuels consumed, total cost.....\$1,000..	80,718	Capital expenditures, new.....do....	225,914
Bituminous coal and anthracite:		New structures and additions to plant.....do....	44,481
Quantity.....1,000 short tons..	4,964	New machinery and equipment.....do....	181,433
Value.....\$1,000..	38,606	Expenditures for used plant and equipment.....do....	33,187
Coke:		Horsepower rating of power equipment at end of 1954:	
Quantity.....1,000 short tons..	23	Total horsepower of prime movers and electric	
Value.....\$1,000..	332	motors driven by purchased energy.....1,000 hp..	4,595
Fuel oil:		Engines, etc., driving electric generators....do....	783
Quantity.....1,000 barrels..	11,211	Engines, etc., not driving electric	
Value.....\$1,000..	31,022	generators.....do....	95
Gas:		Electric motors driven by purchased energy....do....	3,717
Quantity.....million cubic feet..	22,783	Electric motors driven by energy generated at the	
Value.....\$1,000..	8,614	establishment.....do....	453
Other fuels:			
Value.....do....	2,144		

Note: Detailed figures may not added to totals because of independent rounding.







## Woolen and Worsted Manufactures

This report shows 1954 Census of Manufactures statistics for establishments primarily engaged in the various manufacturing processes required to produce woolen and worsted yarns and broad-woven woolen and worsted fabrics and classified into each of the following four industries:

Code	Title
2211--	Scouring and Combing Plants
2212--	Yarn Mills, Wool, Except Carpet
2213--	Woolen and Worsted Fabrics
2216--	Finishing Wool Textiles

These industries represent the four major stages of fabrication of woolen and worsted cloth: fiber preparation, spinning of yarns, weaving of fabric, and finishing of fabric. They also produce a very large part of the woolen and worsted yarns used in the knitting industries, Group 225, Knitting Mills.

The Standard Industrial Classification does not provide for group totals for establishments primarily engaged in woolen and worsted manufacturing. In order to provide information for this important segment of the textile industry and to maintain comparability with earlier Census data, S.I.C. Industry 2211, Yarn Mills, which combines all yarn mills regardless of fiber or system of spinning, has been divided by system of spinning into two Census industries, and S.I.C. Industries 2232 and 2262 have been renumbered. Comparability with the S.I.C. industries at the four digit industry level is maintained as follows:

S.I.C. code	Title	Census code
2211	Scouring and Combing Plants	2211
2221	Yarn Mills	
	Yarn Mills, Wool, Except Carpet	2212
	Yarn Mills, Cotton and Silk Systems	2224
2232	Woolen and Worsted Fabrics	2213
2262	Finishing Wool Textiles	2216

Because of variations in the degree of integration of processes within individual mills, there is a considerable amount of overlapping of production among the four industries. The yarn mills industry (No. 2212) for example, produces only a small part of the wool yarns used in the weaving industry, the major part being produced in woolen and worsted weaving mills. The machinery data in Tables 9A and 9C indicated that mills with weaving equipment had approximately 64 percent of all the woolen and worsted spindles in place. The extent of overlapping of production among the industries can be approximated for some products from the data in Table 6A (total production less production on commission and shipments).

The Census Bureau conducts a quarterly Facts For Industry survey of broad-woven goods, including woolen and worsted fabrics, and a monthly survey of top and noil production. A routine comparison of Census of Manufactures returns with the commodity survey reports for the same mills resulted in some corrections to the commodity survey reports. In addition, the few mills which do not report in the commodity surveys were included in the Census. The production figures for the specified products in Table 6A may thus be taken as final data for 1954, superseding those previously published in Facts for Industry Series M15L "Woolen and Worsted Woven Goods," and M15H "Wool Consumption and Stocks."

### 2211--Scouring and Combing Plants

This industry comprises establishments primarily engaged in processing textile fibers to prepare them for spinning. Important processes included in this industry are wool scouring and carbonizing, and producing tops on worsted combs from wool, rayon, or other synthetic fibers. Establishments primarily engaged in the production of top from tow without combing, and in the production of nubs and slubs are also included in this industry. Byproducts of the industry include noils and recovered

wool grease. Plants primarily engaged in processing textile mill waste for spinning and in recovering fibers from clips and rags, are classified in Industry 2294, Processed Textile Waste. For a detailed list of primary products of Industry 2211, refer to Table 6A, product codes 2211011 to 2211098.

The 1947 Census of Manufactures and subsequent Annual Surveys of Manufactures included some establishments that had no manufacturing plants. These establishments purchased raw materials, usually wool, and had it scoured and combed for them on a commission basis. The S.I.C. classifies such jobbers (topmakers) in Wholesale Trade, and they were therefore excluded from the 1954 Census of Manufactures. The 1947 Census data for this industry have been retabulated to obtain data comparable with the 1954 information. This has resulted in deleting from the 1947 data 20 establishments with 321 employees and \$17,285,000 value added by manufacture. This revision also resulted in substantial reductions in the 1947 product shipments data for tops, noils, and scoured wool.

The value of shipments of Industry 2211, Scouring and Combing Plants, in 1954 totaled \$94 million. This included shipments of primary products (scoured wool, tops and related products) valued at \$55 million, shipments of secondary products valued at \$11 million, and miscellaneous receipts (mainly for commission, scouring or combing of wool owned by others) of \$28 million.

Industry 2211 shipments of scoured wool, tops and related products (primary products) in 1954 represented 83 percent of its total product shipments (primary and secondary). The primary product specialization ratio for 1947 is not available. Secondary products shipped by this industry in 1954 consisted principally of yarns spun on the woolen and worsted systems, and woolen and worsted apparel fabrics.

Industry 2211 shipments of scoured wool, tops and related products (primary products) in 1954 represented 60 percent of these products valued at \$91 million shipped for sale or interplant transfer by all manufacturing industries. The 1947 coverage ratio is not available. Information regarding the quantity and value of tops, noils and scoured wool shipped by topmakers and wool dealers is not available. Other manufacturing industries shipping scouring and combing plant products consisted mainly of Industry 2213, Woolen and Worsted Fabrics, and Industry 2212, Yarn Mills, Wool, Except Carpet.

### 2212--Yarn Mills, Wool, Except Carpet (Part of Standard Industrial Classification Industry 2221, Yarn Mills)

This industry comprises establishments primarily engaged in spinning, twisting, winding, or spooling yarn except carpet and rug yarn, on the woolen or worsted system. This includes yarn spun on the French, Bradford and American systems of worsted spinning. Establishments primarily engaged in manufacturing woolen or worsted carpet and rug yarns are classified in Industry 2271, Wool Carpets, Rugs and Carpet Yarn. For a detailed list of primary products of this subindustry, refer to Table 6A, product codes 2212011 to 2212077. The data shown for Industry 2212 represent a part of the Standard Industrial Classification Industry 2221 (See introduction above). Data for the remainder of S.I.C. Industry 2221 are published as Census Industry 2224, Yarn mills, cotton and silk systems and included in Bulletin MC-22B, Cotton, Rayon and Related Manufactures.

The value of shipments of Industry 2212, Yarn Mills, Wool, Except Carpet, in 1954 totaled \$252 million. This included shipments of primary products (woolen and worsted system yarns) valued at \$212 million, shipments of secondary products valued at \$16 million, and miscellaneous receipts (mainly commission spinning of yarns from materials owned by others) of \$24 million.

Industry 2212 shipments of woolen and worsted system yarns (primary products) in 1954 represented 93 percent of its total product shipments (primary and secondary). In 1947, this

primary product specialization ratio was 90 percent. The most important secondary products shipped by this industry in 1954 were scoured wool, tops and noils.

Industry 2212 shipments of woolen and worsted system yarns (except carpet yarns) in 1954 represented 85 percent of the total of these products valued at \$250 million shipped for sale or interplant transfer by all industries. The 1947 coverage ratio was 81 percent. The most important other industry shipping these products was Industry 2213, Woolen and Worsted Fabrics with shipments of \$18 million.

While Industry 2212 accounts for most of the shipments of woolen and worsted system yarn (except carpet yarn), the industry accounts for a much smaller percentage of the total production of such yarns. Integrated woolen and worsted mills, classified in Industry 2213, produced approximately two-thirds of the total production of these yarns. The bulk of this production is for use within the producing establishment.

**2213--Woolen and Worsted Fabrics** (Full Standard Industrial Classification Title and Code Number 2232--Broad-Woven Fabric Mills (Woolen and Worsted))

This industry comprises establishments primarily engaged in weaving woolen and worsted fabrics over 12 inches in width. Important products of this industry include woolen and worsted apparel fabrics, household fabrics, and industrial and mechanical fabrics; and woven felts and haircloth. Establishments primarily engaged in weaving wool carpets and rugs are classified in Industry 2271, Wool Carpets and Rugs. For a detailed list of primary products of Industry 2213, refer to Table 6A, product codes 2213111 to 2213398.

The definition and content of Industry 2213 and S.I.C. industry number 2232 are identical. The industry code number has been changed in order to publish separate data for the woolen and worsted manufactures sub-group.

The value of shipments of Industry 2213, Woolen and Worsted Fabrics, in 1954 totaled \$890 million. This included shipments of primary products (woolen and worsted fabrics) valued at \$781 million, shipments of secondary products valued at \$72 million, and miscellaneous receipts (mainly receipts for commission work on materials owned by others) of \$37 million.

Industry 2213 shipments of woolen and worsted fabrics (primary products) in 1954 represented 92 percent of its total product shipments (primary and secondary). In 1947, this primary product specialization ratio was 90 percent. Secondary products shipped by this industry in 1954 consisted mainly of scouring and combing mill products \$26 million, rayon and related broad woven fabrics \$24 million, and yarns spun on woolen systems (except carpet yarns) \$18 million.

Industry 2213 includes a large number of integrated mills which perform all operations from raw fiber to finished fabric. The industry's shipments consist mainly of finished fabrics, but it figures importantly in the scouring of wool, combing of wool tops and other fiber preparation, spinning of yarn on the woolen and worsted systems, and the weaving and finishing (dyeing, tentering, etc.) of the resulting cloth.

Industry 2213 shipments of woolen and worsted fabrics in 1954 represented 95 percent of the woolen and worsted fabrics valued at \$818 million shipped by all industries. The 1947 coverage ratio was 97 percent. Other industries shipping woolen and worsted fabrics included Industry 2234, Synthetic Broad Woven Fabrics, \$18 million.

**2216--Finishing Wool Textiles** (Full Standard Industrial Classification Title and Code Number 2262--Dyeing and Finishing Woolen and Worsted Goods)

This industry comprises establishments primarily engaged in dyeing and finishing woven woolen or worsted fabrics or in dyeing wool, tops, or yarn. The definition and content of Industry 2216 and S.I.C. industry number 2262 are identical.

A substantial number of the plants included in this industry are commission finishers of materials owned by others. In order to obtain consistent data for this industry, plants finishing their own materials were requested to delete the value of the unfinished product from both their cost of materials and their value of shipments. This, in effect, resulted in all establishments in the industry reporting on a comparable basis (i.e., as commission plants).

The plant specialization ratio of primary products to primary and secondary products is, therefore, not meaningful inasmuch as product information was not collected. However, the commission receipts reported by the industry are almost all for finishing materials and therefore the specialization ratio, including miscellaneous receipts, would be quite high (over 90 percent).

The coverage ratio measures the extent to which the total shipments of products primary to the given industry are shipped by establishments classified in that industry. This ratio is also not meaningful for this industry because of the absence of product information. An alternative procedure would be to calculate the coverage ratio on the basis of production rather than shipments. While data are not available for this purpose, it is known that the coverage ratio would be quite low because most of the top, yarn, and fabric are finished at the spinning or weaving mills and not at separately operated finishing mills.

The general statistics (employment, payrolls, value of shipments, cost of materials, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products, and, for that matter, their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (Tables 1-4) with product statistics (Table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in Table 5A which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry made as secondary products by establishments classified in other industries.



Table 1.—GENERAL STATISTICS FOR THE UNITED STATES: 1954 AND EARLIER YEARS  
(For explanation of column captions see Introduction)

Industry and census year	Establish- ments, number	All employees		Production workers		Value added by manufacture <sup>2</sup> (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments <sup>3</sup> (\$1,000)
		Number <sup>1</sup>	Payroll (\$1,000)	Number <sup>1</sup>	Wages (\$1,000)			
Scouring and combing plants (S.I.C. 2211):								
1954.....	74	7,013	24,300	6,363	20,134	35,084	59,084	94,168
1947 <sup>4</sup> .....	56	8,412	24,105	7,757	20,572	36,920	38,637	75,557
1939 <sup>5</sup> .....	49	(NA)	(NA)	6,731	6,696	13,015	21,682	34,697
1937 <sup>6</sup> .....	31	4,786	5,932	4,504	4,951	8,361	6,489	14,850
1935 <sup>6</sup> .....	32	4,472	5,148	4,175	4,382	8,444	5,656	14,100
Yarn mills, wool, exc. carpet (Census Code 2212): <sup>7</sup>								
1954.....	171	17,840	51,730	16,511	44,085	78,971	172,642	251,614
1953 <sup>8</sup> .....	(NA)	24,159	73,419	22,686	64,284	104,768	229,608	334,376
1952 <sup>8</sup> .....	(NA)	22,343	68,928	20,916	60,351	100,623	234,083	334,706
1951 <sup>8</sup> .....	(NA)	26,741	78,886	25,044	69,468	122,833	376,978	499,811
1950 <sup>8</sup> .....	(NA)	30,494	81,935	28,558	71,111	129,304	295,751	425,055
1949 <sup>8</sup> .....	(NA)	26,140	67,766	24,053	57,051	95,265	205,232	300,497
1947.....	200	33,178	75,380	31,463	66,443	127,808	209,148	336,956
1939 <sup>9</sup> .....	135	(NA)	(NA)	22,764	19,117	38,465	90,188	128,653
1937 <sup>9</sup> .....	112	21,021	20,511	20,052	17,624	28,402	74,897	103,299
1935 <sup>9</sup> .....	111	22,961	20,934	22,006	17,972	29,090	66,115	95,205
Woolen and worsted fabrics (Census Code 2213): <sup>7</sup>								
1954.....	343	62,466	214,246	55,702	174,696	315,706	574,576	890,281
1953 <sup>8</sup> .....	(NA)	95,754	336,919	86,205	284,124	470,064	915,768	1,385,832
1952 <sup>8</sup> .....	(NA)	90,291	338,297	81,789	285,020	533,208	1,022,119	1,555,327
1951 <sup>8</sup> .....	(NA)	98,322	348,143	89,116	298,533	487,855	1,336,714	1,824,569
1950 <sup>8</sup> .....	(NA)	112,871	341,483	103,358	295,937	512,018	920,521	1,432,539
1949 <sup>8</sup> .....	(NA)	105,656	313,070	96,216	267,057	463,329	737,479	1,200,808
1947.....	495	132,348	338,928	122,432	293,962	599,534	755,675	1,355,209
1939 <sup>9</sup> .....	478	(NA)	(NA)	116,660	113,790	222,673	312,937	535,610
1937 <sup>10</sup> .....	508	139,817	154,087	132,158	133,698	247,631	449,959	697,590
1935 <sup>10</sup> .....	490	144,517	145,524	137,054	126,589	223,462	361,908	585,370
Finishing Wool Textiles (Census Code 2216): <sup>7</sup>								
1954.....	56	4,215	15,489	3,513	11,304	23,143	119,644	1132,788
1947.....	59	5,802	16,272	5,140	13,048	22,084	116,805	1128,889
1939.....	63	4,511	5,830	3,821	3,945	10,484	(11)	(11)
1937 <sup>12</sup> .....	55	(NA)	(NA)	3,455	3,858	11,289	(11)	(11)

NA Not available.

<sup>1</sup>For the period 1949-1954, figures are based on employment for the payroll periods ended nearest the 15th of March, May, August and November. For 1947, they represent the average of 12 monthly figures. For earlier years, the production worker average was calculated as in 1947, but the figure for all employees represents the sum of the annual average number of production workers and the number of nonproduction workers reported for one payroll period (usually in October).

<sup>2</sup>Value of products less cost of materials, supplies, fuel, electric energy and contract work. See Introduction, "Value Added by Manufacture."

<sup>3</sup>For 1947-1954, value of shipments; for all other years, value of production. See Introduction, "Value of Shipments."

<sup>4</sup>In order to conform with the 1954 definition of this industry, the figures for 1947 have been revised to exclude "Topmakers" who do not perform any manufacturing operations but sell scoured wool or tops and noils which have been produced by others for their account on a contract or commission basis. The figures for 1954 and 1947 are not entirely comparable with those for earlier years, which include reports from topmakers.

<sup>5</sup>In 1939, "Woolen and worsted fabrics," "Yarn mills, wool systems, except carpet," and "Scouring and combining plants," were not classified as separate industries but were included in the industries formerly designated "Woolen and worsted manufactures-regular factories or jobbers engaging contractors" and "Woolen and worsted manufactures-contract factories." The figures for 1939 were obtained from a retabulation of the returns for these two industries.

<sup>6</sup>The figures for 1937 and 1935 have been obtained by combining the figures for the former industries "Wool scouring" and "Wool combing-commission, and tops for sale." Comparable figures are not available for years prior to 1935 because wool combing establishments were not shown as a separate industry but were included in the former industry "Worsted goods."

<sup>7</sup>Census industry definitions correspond to the Standard Industrial Classification but some of the industries have been renumbered and regrouped to provide totals for wool manufactures. The Census industry code numbers and the corresponding S.I.C. numbers, are as follows:

S.I.C. Code	Title	Census Code
2221	Yarn mills, wool, exc. carpet	2212
2232	Yarn mills, cotton and silk; system	2224
2262	Woolen and worsted fabrics	2213
	Finishing wool textiles	2216

<sup>8</sup>The figures for 1949-1953 represent estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period. Estimates with a standard error in excess of 15 percent generally have been omitted from this table.

<sup>9</sup>The figures for 1937 and 1935 have been obtained by combining the figures for the former industries "Woolen yarn" and "Worsted yarn" which were not shown as separate industries prior to 1935, but were included in the discontinued classifications "Woolen goods" and "Worsted goods."

<sup>10</sup>The figures for 1937 and 1935 have been obtained by combining the figures for the former industries "Woolen woven goods including woven felts" and "Worsted woven goods." Prior to 1935 these industries were part of the discontinued classifications "Woolen goods," "Worsted goods," "Hair cloth" and "Felt goods, wool, hair or jute," and separate figures are therefore not available for earlier years.

<sup>11</sup>For 1947-1954, "Value of Shipments" represents the value added by finishing; the "Cost of materials, etc.," includes the cost of dyestuffs but not the cost of unfinished cloth. Comparable figures for earlier years are not available.

<sup>12</sup>The figures for "Finishing wool textiles" for 1935 are not sufficiently comparable with those for later years to be shown in this table because they include data for establishments primarily engaged in winding or balling hand-knitting yarn and exclude data for dyeing and finishing mills of integrated companies engaged in both weaving and finishing at separate plant locations.



## WOOLEN AND WORSTED MANUFACTURES

Table 2.—GENERAL STATISTICS BY REGIONS AND STATES: 1954 AND 1947  
(For explanation of column captions see Introduction)

Industry, region, and State <sup>1</sup>	1954											1947	
	Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
	Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
Scouring and combing plants (S.I.C. 2211), total.....	74	48	7,013	24,300	6,363	12,616	20,134	35,084	59,084	94,168	2,391	8,412	36,920
New England.....	49	37	5,728	19,475	5,278	10,481	16,629	29,059	40,225	69,285	1,299	6,480	29,231
Massachusetts.....	32	26	3,909	13,187	3,580	7,141	11,189	20,408	21,204	41,613	970	4,254	18,235
Middle Atlantic.....	14	8	1,077	4,156	910	1,775	3,044	5,188	17,249	22,438	557	1,739	6,572
Pennsylvania.....	9	6	898	3,545	747	1,465	2,557	4,144	14,015	18,160	(D)	931	3,803
North Central, South, & West..	11	3	206	668	174	359	458	835	1,608	2,444	533	193	1,117
Yarn mills, wool, except carpet (Census Code 2212), total....	171	134	17,840	51,730	16,511	31,150	44,085	78,971	172,642	251,614	3,302	33,178	127,808
New England.....	93	79	9,936	29,640	9,163	17,199	25,319	46,437	86,936	133,374	1,576	22,510	86,712
Massachusetts.....	29	23	2,542	7,690	2,365	4,438	6,752	12,138	17,761	29,900	260	7,814	(D)
Rhode Island.....	37	33	5,223	15,894	4,798	8,929	13,327	22,441	50,012	72,454	867	11,521	46,939
Connecticut.....	7	7	699	1,908	652	1,253	1,659	5,158	5,544	10,702	41	824	(D)
Middle Atlantic.....	44	28	3,141	9,163	2,890	5,337	7,642	11,116	30,814	41,931	683	7,744	27,829
New York.....	19	9	1,195	3,384	1,127	2,288	3,067	4,147	11,318	15,466	289	1,800	7,556
New Jersey.....	5	2	216	586	201	364	492	909	2,096	3,006	3	1,902	6,246
Pennsylvania.....	20	17	1,729	5,192	1,561	2,684	4,082	6,059	17,399	23,458	390	4,042	14,027
South Atlantic.....	21	17	3,401	8,584	3,248	6,232	7,791	14,928	46,974	61,903	850	2,329	9,719
South Carolina.....	5	5	988	2,867	939	2,047	2,659	3,819	16,441	20,260	(D)		
East South Central.....	3	3	202	579	182	406	461	715	668	1,383	5		
Tennessee.....	3	3	202	579	182	406	461	715	668	1,383	5		
All Other Divisions.....	10	7	1,160	3,763	1,027	1,976	2,870	5,775	7,248	13,022	187		
Woolen and worsted fabrics, (Census Code 2213), total.....	343	265	62,466	214,246	55,702	111,650	174,696	315,706	574,576	890,281	11,714	132,348	599,534
New England.....	188	154	29,043	103,672	26,230	53,072	86,824	143,044	298,785	441,830	3,960	81,572	364,887
Maine.....	28	24	4,154	15,519	4,364	8,862	13,320	19,541	41,447	60,989	650	11,345	(D)
Massachusetts.....	62	54	12,631	47,216	11,237	22,763	38,507	66,861	156,727	223,589	2,117	39,956	179,681
Rhode Island.....	40	27	3,221	11,114	2,858	5,514	9,246	15,032	35,173	50,206	234	13,467	59,027
Connecticut.....	25	21	2,950	11,031	2,680	5,615	9,336	16,570	39,641	39,641	340	7,113	34,032
Middle Atlantic.....	71	43	12,653	46,534	10,672	20,692	35,076	65,773	86,132	151,906	2,070	27,935	135,367
New York.....	23	10	3,770	15,030	3,118	6,225	10,561	25,906	22,537	48,444	1,475	7,901	37,148
New Jersey.....	12	6	5,594	19,975	4,625	8,764	15,623	22,762	36,106	58,869	194	10,683	46,368
Pennsylvania.....	36	27	3,287	11,529	2,929	5,702	8,892	17,104	27,487	44,592	400	9,351	51,851
North Central.....	30	23	4,793	15,536	4,246	8,061	12,130	24,065	33,700	57,766	723	7,435	35,973
Ohio.....	8	8	2,869	9,443	2,776	4,860	7,618	15,313	22,945	38,259	(D)	3,382	20,248
Wisconsin.....	7	5	556	1,887	461	886	1,287	2,714	3,233	5,947	150	1,108	4,151
South.....	43	38	14,711	44,058	13,402	27,542	36,897	76,679	148,171	224,849	4,720	13,637	55,802
North Carolina.....	10	8	4,978	15,845	4,580	9,535	13,354	21,864	42,417	64,282	877	5,150	21,576
South Carolina.....	7	7	1,726	5,073	1,583	3,291	4,271	10,214	20,745	30,960	679	1,505	(D)
West.....	11	7	1,265	4,445	1,150	2,282	3,768	6,143	7,786	13,930	239	1,769	7,505
Finishing wool textiles (Census Code 2216), total.....	56	41	4,215	15,489	3,513	7,076	11,304	23,143	9,644	32,788	1,307	5,802	22,084
New England.....	17	13	950	3,202	841	1,635	2,653	4,850	1,684	6,534	223	1,782	6,139
Massachusetts.....	7	6	252	897	230	445	714	1,554	348	1,903	65	(D)	(D)
Middle Atlantic.....	26	19	2,070	8,664	1,620	3,220	5,758	10,942	3,625	14,568	837	3,525	13,935
Pennsylvania.....	13	10	758	2,901	638	1,216	2,082	4,045	1,539	5,584	(D)	1,624	6,272
All Other Divisions.....	11	9	1,193	3,621	1,049	2,219	2,891	7,350	4,334	11,684	243	493	2,010

Note: Detailed figures may not add to the totals because of independent rounding.

<sup>1</sup> D Withheld to avoid disclosing figures for individual companies.

General statistics for some producing States are not shown separately in the table (See Introduction "Confidentiality of Data for Individual Companies"). Such States are shown below with the number of establishments in each State for 1954 and, in parentheses, the number of employees or the employment-size range for that State for 1954:

S.I.C. 2211, Scouring and Combing Plants: New England—Maine, 1 (1-19); New Hampshire, 1 (20-99); Rhode Island, 12 (1,000-2,499); Middle Atlantic—New York, 1 (1-19); New Jersey, 4 (100-249); North Central, South, and West—Michigan, 1 (1-19); Wisconsin, 2 (1-19); North Carolina, 1 (1-19); South Carolina, 3 (100-249); Texas, 2 (20-99); Oregon, 1 (1-19); California, 1 (20-99).

Census Code 2212, Yarn Mills, Wool, except Carpet: New England—Maine, 9 (500-999); New Hampshire, 8 (500-999); Vermont, 3 (20-99); Ohio, 3 (250-499); Illinois, 1 (250-499); Michigan, 1 (20-99); Wisconsin, 3 (100-249); Minnesota, 1 (1-19); South Atlantic—Delaware, 3 (100-249); Maryland, 1 (1-19); Virginia, 2 (20-99); North Carolina, 9 (1,000-2,499); Georgia, 1 (500-999); Oregon, 1 (250-499).

Census Code 2213, Woolen and Worsted Fabrics: New England—New Hampshire, 24 (3,877); Vermont, 9 (1,608); North Central—Indiana, 3 (100-249); Illinois, 2 (250-499); Michigan, 4 (250-499); Minnesota, 3 (100-249); Iowa, 2 (100-249); Missouri, 1 (20-99); South—Delaware, 1 (1-19); Maryland, 1 (250-499); Virginia, 8 (2,340); West Virginia, 1 (100-249); Georgia, 7 (2,500-4,999); Kentucky, 1 (20-99); Tennessee, 4 (500-999); Alabama, 1 (250-499); Texas, 2 (20-99); West—Utah, 1 (20-99); Washington, 2 (250-499); Oregon, 6 (500-999); California, 2 (1-19).

Census Code 2216, Finishing Wool Textiles: New England—New Hampshire, 1 (250-499); Rhode Island, 9 (250-499); Middle Atlantic—New York, 10 (250-499); New Jersey, 3 (500-999); All Other Divisions—Ohio, 2 (250-499); Wisconsin, 1 (20-99); Virginia, 2 (250-499); West Virginia, 1 (20-99); South Carolina, 1 (250-499); Georgia, 1 (20-99); California, 5 (20-99).

## MANUFACTURES--INDUSTRY STATISTICS

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Table 3.--DETAILED STATISTICS FOR THE UNITED STATES: 1954  
(For explanation of line captions see Introduction)

Item	Scouring and combing plants (S.I.C. 2211)	Yarn mills, wool, except carpet (Census Code 2212)	Woolen and worsted fabrics (Census Code 2213)	Finishing wool textiles (Census Code 2216)
Primary product specialization ratio <sup>1</sup> .....	83	93	92	(3)
Coverage ratio <sup>2</sup> .....	60	85	95	(3)
Number of establishments, total.....	74	171	343	56
With 1-19 employees.....	26	37	78	15
With 20-99 employees.....	28	77	87	32
With 100 employees and over.....	20	57	178	5
All employees:				
Number (average for year).....	7,013	17,840	62,466	4,215
Payroll.....\$1,000..	24,300	51,730	214,246	15,489
Production workers:				
Number (average for year).....	6,363	16,511	55,702	3,513
Man-hours.....1,000..	12,616	31,150	111,650	7,076
Wages.....\$1,000..	20,134	44,085	174,696	11,304
Value added by manufacture.....do...	35,084	78,971	315,706	23,143
Cost of materials, etc.....do...	59,084	172,642	574,576	9,644
Value of shipments.....do...	94,168	251,614	890,281	32,788
Value added by resales.....do...	334	49	163	245
Cost of products bought and resold.....do...	6,160	1,556	2,615	309
Sales of products bought and resold.....do...	6,495	1,605	2,778	554
Total inventories, beginning of year.....do...	21,220	49,109	234,095	12,266
Total inventories, end of year.....do...	17,947	42,100	215,932	12,614
Capital expenditures, new.....do...	2,391	3,302	11,714	1,307
Number of employees for selected months:				
March.....	6,682	17,404	61,038	4,195
May.....	7,155	18,154	61,785	4,272
August.....	7,534	18,480	64,541	4,398
November.....	6,681	17,323	62,498	3,994
Cost of materials, fuel, electricity and contract work, total.....\$1,000..	59,084	172,642	574,576	9,644
Materials, parts, containers, and supplies consumed.....do...	56,273	163,687	528,663	8,081
Fuels consumed, total.....do...	1,384	1,020	7,510	1,221
Bituminous coal and anthracite:				
Quantity.....1,000 short tons..	26	36	310	77
Value.....\$1,000..	296	329	2,928	618
Coke:				
Quantity.....1,000 short tons..	3	(4)	14	...
Value.....\$1,000..	40	(5)	179	...
Fuel oil:				
Quantity.....1,000 barrels..	364	221	1,532	204
Value.....\$1,000..	939	646	4,252	534
Gas:				
Quantity.....million cubic feet..	47	35	357	134
Value.....\$1,000..	12	34	104	60
Other fuels:				
Value.....do...	97	10	47	9
Electric energy:				
Purchased:				
Quantity.....million kwh..	47	73	384	18
Cost.....\$1,000..	798	2,361	5,703	266
Generated.....million kwh..	13	7	127	17
Sold:				
Quantity.....do...	1	...	5	(6)
Value.....\$1,000..	12	...	63	8
Cost of contract work.....do...	629	5,574	32,700	76
Manufacturers' inventories:				
Beginning of year, total.....do...	21,220	49,109	234,095	12,266
Finished products.....do...	9,091	11,695	55,667	4,920
Work-in-process.....do...	4,862	22,978	99,245	5,567
Materials, supplies, fuel, etc.....do...	7,266	14,435	79,182	1,778
End of year, total.....do...	17,947	42,100	215,932	12,614
Finished products.....do...	8,412	10,486	49,553	4,993
Work-in-process.....do...	3,637	17,912	95,745	6,236
Materials, supplies, fuel, etc.....do...	5,896	13,701	70,633	1,384
Expenditures for plant and equipment, total.....do...	3,129	4,158	14,435	1,403
Capital expenditures, new.....do...	2,391	3,302	11,714	1,307
New structures and additions to plant.....do...	(7)	(7)	3,087	(7)
New machinery and equipment.....do...	1,929	2,959	8,626	1,176
Expenditures for used plant and equipment.....do...	738	856	2,721	(7)
Horsepower rating of power equipment at end of 1954:				
Horsepower of prime movers and electric motors driven by purchased energy, total.....1,000 hp..	44	85	353	34
Engines, etc., driving electric generators.....do...	13	3	132	18
Engines, etc., not driving electric generators.....do...	2	1	8	3
Electric motors driven by purchased energy.....do...	29	81	213	13
Electric motors driven by energy generated at the establishment.....do...	7	3	54	10

Note: Detailed figures may not add to the totals because of independent rounding. xxx Not applicable. NA Not available. <sup>1</sup>The specialization ratio compares the given industry's shipments of its primary products to its total shipments of all products. (The primary products are listed in Tables 5B and 6A; the first 4-digits of the product code represent the industry code to which the product is primary.) <sup>2</sup>The coverage ratio measures the extent to which the total shipments of products primary to the given industry are shipped by establishments classified in that industry. <sup>3</sup>Relationships not meaningful because of predominance of miscellaneous receipts particularly receipts for contract and commission work on material owned by others. <sup>4</sup>Less than 500 tons. <sup>5</sup>Less than \$5 thousand. <sup>6</sup>Less than 500 thousand kwh. <sup>7</sup>Less than \$500 thousand.

## WOOLEN AND WORSTED MANUFACTURES

Table 4.—SELECTED STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR THE UNITED STATES: 1954

(Value figures in thousands of dollars. For explanation of line captions see Introduction. Data which cannot be shown without disclosing information for individual companies have been combined with figures for other size classes. A (D) appears in the column where the figure has been omitted and the combined figure is underlined and shown in the size-class to the left)

Ind. code	Industry and item	Total, all establishments	Establishments with an average of—									
			1-4 em- ployees	5-9 em- ployees	10-19 em- ployees	20-49 em- ployees	50-99 em- ployees	100-249 employees	250-499 employees	500-999 employees	1,000-2,499 employees	2,500 employees and over
2211	Scouring and combing plants:											
	Number of establishments...	74	10	8	8	18	10	11	6	3	...	...
	Number of employees.....	7,013	23	55	122	595	734	1,599	2,050	1,833	...	...
	Value added by manufacture.	35,084	161	463	663	3,657	3,085	7,689	11,062	8,302	...	...
2212	Yarn mills, wool, exc. carpet:											
	Number of establishments...	171	15	5	17	41	36	39	14	4	...	...
	Number of employees.....	17,840	38	37	256	1,308	2,535	6,377	4,743	2,544	...	...
	Value added by manufacture.	78,971	136	180	1,106	5,574	10,669	27,626	23,708	9,971	...	...
2213	Woolen and worsted fabrics:											
	Number of establishments...	343	38	16	24	56	31	99	62	10	6	1
	Number of employees.....	62,466	89	113	328	1,935	2,212	16,153	22,590	6,499	<u>12,545</u>	(D)
	Value added by manufacture.	315,706	426	475	1,847	8,355	9,064	81,772	120,645	30,835	<u>62,284</u>	(D)
2216	Finishing wool textiles:											
	Number of establishments...	56	5	5	5	21	11	5	3	1	...	...
	Number of employees.....	4,215	17	38	63	698	828	804	<u>1,763</u>	(D)	...	...
	Value added by manufacture.	23,143	124	333	334	4,117	3,750	6,815	<u>7,669</u>	(D)	...	...

Note: Detailed figures may not add to the totals because of independent rounding.

Table 5A.—INDUSTRY-PRODUCT ANALYSIS—SUMMARY OF INDUSTRY AND PRIMARY PRODUCT SHIPMENTS, SPECIALIZATION RATIOS AND COVERAGE RATIOS FOR THE UNITED STATES: 1954 AND 1947

Industry code	Industry and census year	Value of shipments					Value of primary products shipped			
		Total	Primary products	Secondary products	Miscel- laneous receipts	Primary product speciali- zation ratio <sup>1</sup>  Col. B Col. B+C (Percent)	Total (made in all industries)	Made in this industry	Made in other industries	Coverage ratio <sup>2</sup>  Col. G Col. F (Percent)
(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(F)	(G)	(H)	(I)			
(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)		
2211	Scouring and combing plants..1954..	94,168	54,648	11,211	28,309	383	91,036	54,648	36,388	60
	1947..	75,557	(NA)	(NA)	(NA)	(NA)	116,909	(NA)	(NA)	(NA)
2212	Yarn mills, wool, except carpet.....1954..	251,614	211,995	15,934	23,685	93	249,807	211,995	37,812	85
	1947..	336,956	279,145	29,948	27,863	90	343,076	279,145	63,931	81
2213	Woolen and worsted fabrics...1954..	890,281	780,789	72,485	37,007	92	818,020	780,789	37,231	95
	1947..	1,355,209	1,189,853	130,574	34,782	90	1,227,423	1,189,853	37,570	97
2216	Finishing wool textiles.....1954..	32,788	...	432	32,356	(4)	...	...	...	(4)
	1947..	28,889	...	...	28,339	(4)	...	...	...	(4)

NA Not available.

<sup>1</sup>The specialization ratio compares the given industry's shipments of its primary products to its total shipments of all products. (The primary products are listed in Tables 5B and 6A; the first 4-digits of the product code represent the industry code to which the product is primary.)

<sup>2</sup>The coverage ratio measures the extent to which the total shipments of products primary to the given industry are shipped by establishments classified in that industry.

<sup>3</sup>If miscellaneous receipts are included in both the numerator and denominator of the calculation, the specialization ratio is 88 percent for 1954.

<sup>4</sup>Relationships not meaningful because of the predominance of miscellaneous receipts, particularly receipts for contract and commission finishing of materials owned by others.



## MANUFACTURES—INDUSTRY STATISTICS

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Table 5B.—INDUSTRY-PRODUCT ANALYSIS—SHIPMENTS BY PRODUCT CLASS AND INDUSTRY, FOR THE UNITED STATES: 1954

(In thousands of dollars. Each column shows for the industry listed in the column heading, the value of shipments divided between woolen and worsted products, other products, and miscellaneous receipts. Each figure represents the amount of the product class shown at the left shipped by the industry listed at the top of the column. The first four digits of the product class codes at the left represent the codes of the industries to which they are primary. All other product classes in a column represent products secondary to the specified industry)

Prod. class code	Class of products and miscellaneous receipts	Scouring and combing plants (S.I.C. 2211)	Yarn mills, wool, except carpet (Census code 2212)	Woolen and worsted fabrics (Census code 2213)	Finishing wool textiles (Census code 2216)	Synthetic broad-woven fabrics (Census code 2234)	Other industries	All industries
	Total shipments of the industry.....	94,168	251,614	890,281	32,788	xxx	xxx	xxx
221-	Woolen and worsted products.....	65,765	221,445	824,968	...	25,055	21,630	1,158,863
22110	Scouring and combing mill products.....	54,648	(D)	26,336	...	(D)	2,410	91,036
22120	Yarns spun on woolen systems except carpet.....	(D)	211,995	17,843	...	(D)	10,539	249,807
22131	Woolen and worsted apparel fabrics.....	(D)	(D)	670,997	...	10,728	5,945	697,971
22132	Woolen and worsted nonapparel fabrics.....	...	...	56,378	...	7,494	2,643	66,515
22133	Woven wool felts.....	...	...	46,771	...	...	( <sup>1</sup> )	46,826
22130	Woolen and worsted fabrics, not specified by kind....	...	...	6,643	...	( <sup>1</sup> )	( <sup>1</sup> )	6,708
	Other products.....	( <sup>1</sup> )	6,484	28,306	432	xxx	xxx	xxx
22341	Rayon and acetate pile upholstery, and tie fabrics..	...	...	4,553	...	xxx	xxx	xxx
	Other secondary products.....	( <sup>1</sup> )	6,484	23,753	432	xxx	xxx	xxx
	Miscellaneous receipts.....	28,309	23,685	37,007	32,356	xxx	xxx	xxx
	Contract and commission work:							
	Scouring, combing and related processing.....	25,883	1,250	(D)	...	xxx	xxx	xxx
	Spinning yarn on the woolen and worsted systems...	(D)	13,923	(D)	...	xxx	xxx	xxx
	Weaving woolen and worsted fabrics.....	...	1,104	10,421	...	xxx	xxx	xxx
	Finishing woolen and worsted fabrics.....	(D)	(D)	3,074	20,319	xxx	xxx	xxx
	Finishing wool yarns, top, and raw stock.....	(D)	(D)	961	8,655	xxx	xxx	xxx
	Other contract and commission work <sup>2</sup> .....	709	2,225	12,540	3,315	xxx	xxx	xxx
	Scrap and salable refuse <sup>3</sup> .....	821	3,353	6,682	( <sup>1</sup> )	xxx	xxx	xxx
	Other receipts.....	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	xxx	xxx	xxx

xxx Not applicable.

D Withheld to avoid disclosing information for individual companies.

<sup>1</sup>Less than \$100 thousand.<sup>2</sup>Includes contract and commission receipts not specified by kind.

<sup>3</sup>Establishments classified in Industries 2211, Scouring and Combing Plants; 2212, Yarn Mills, Wool, Except Carpet; and 2213, Woolen and Worsted Fabrics were requested to report quantity and value for the sales of mill waste. These mills reported the following information:

	Total shipments and interplant transfers	
	Quantity (1,000 lbs)	Value (\$1,000)
Mill waste and other scrap, total.....	xxx	10,856
Woolen and worsted mill waste.....	19,498	6,563
Cotton and man-made fiber waste.....	2,257	497
Other mill waste including mill waste, not specified by kind.....	xxx	3,796

## WOOLEN AND WORSTED MANUFACTURES

Table 6A.—QUANTITY AND VALUE OF PRODUCTS SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, FOR THE UNITED STATES: 1954 AND 1947

Product code	Product	1954				1947		
		Production (1,000 pounds)		Total shipments including interplant transfers		Production for all purposes	Total shipments including interplant transfers	
		Total for all purposes	Produced on commission	Quantity (1,000 pounds)	Value (\$1,000)		Quantity (1,000 pounds)	Value (\$1,000)
2211---	Scouring and combing mill products, total.....	xxx	xxx	xxx	91,036	xxx	xxx	116,909
	Tops: <sup>1</sup>							
2211011	Wool of the sheep.....	126,190	67,298	32,474	64,872	294,588	49,744	75,995
2211012	Mohair.....					( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )
2211013	Rayon and/or acetate.....	16,798	10,029	586	687	5,698	757	413
2211015	Nylon.....							
2211019	All other tops.....							
	216,582					216,582	22,023	22,197
	Noils: <sup>1</sup>							
2211021	Wool of the sheep.....	15,630	xxx	7,070	6,728	47,542	23,786	14,479
2211022	Mohair.....					1,992	1,310	472
2211023	Rayon and/or acetate.....	2,190	xxx	445	353	222	86	15
2211025	Nylon.....							
2211029	All other noils.....							
	591					591	2,925	55
2211031	Scoured wool for sale.....	xxx	xxx	11,024	11,588	xxx	23,482	20,441
	Recovered wool grease: <sup>1</sup>							
2211051	2% or less free fatty acids.....	5,354	xxx	5,376	608	xxx	9,908	1,265
2211055	Over 2% free fatty acids.....						14,227	1,577
2211098	All other scouring and combing mill products, and products not specified by kind.....	xxx	xxx	xxx	6,200	xxx	xxx	xxx
2212---	Yarns spun on woolen and worsted systems, except carpet yarns, total.....	404,249	33,832	105,141	249,807	xxx	xxx	343,076
	Yarns spun on woolen system:							
2212011	Weaving <sup>1</sup> .....	238,650	12,224	7,596	15,470	310,240	14,514	23,112
	Knitting:							
2212013	Machine.....	11,698	1,846	11,104	22,601	127,846	6,095	9,165
2212015	Hand.....	305					115	410
2212019	All other.....	1,974		1,550	1,500	xxx	xxx	xxx
	Yarns spun on Bradford system:							
2212031	Weaving <sup>1</sup> .....	59,757	6,753	26,733	62,105	141,005	69,979	147,988
	Knitting:							
2212033	Machine.....	20,680	3,222	18,223	41,508	38,514	35,231	67,847
2212035	Hand.....	4,233					9,804	20,805
	2,967					9,701		
	Yarns spun on French system:							
2212051	Weaving <sup>1</sup> .....	16,356	2,684	2,824	8,950	53,352	19,556	46,249
	Knitting:							
2212053	Machine.....	5,775	xxx	5,760	16,670	9,900	9,946	23,735
2212055	Hand.....	xxx					1,226	3,765
	1,276					1,276		
	Yarns spun on other worsted systems:							
2212071	Weaving <sup>1</sup> .....	124,446	4,507	10,798	26,791	(NA)	(NA)	(NA)
	Knitting:							
2212075	Machine.....	18,255	2,596	15,759	38,855			
2212077	Hand.....	2,120	xxx	1,827	5,475			
2212000	Yarns spun on woolen and worsted systems, not specified by kind.....	xxx	xxx	xxx	3,153	xxx	xxx	xxx

See footnotes at end of table.

## MANUFACTURES—INDUSTRY STATISTICS

22A-9

Table 6A.—QUANTITY AND VALUE OF PRODUCTS SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, FOR THE UNITED STATES: 1954 AND 1947—Continued

Product code	Product	1954					1947				
		Total production (quantity)		Produced on commission	Total shipments including interplant transfers		Total production (quantity)			Total shipments including interplant transfers	
		1,000 linear yards	Weight in ounces per linear yard <sup>3</sup>		Quantity	Value	1,000 linear yards	Weight in ounces per linear yard	1,000 square yards	Quantity	Value
				(1,000 linear yards)	(1,000 linear yards)	(\$1,000)				(1,000 linear yards)	(\$1,000)
2213---	Woolen and worsted fabrics, total <sup>4</sup> .....	xxx	xxx	xxx	xxx	818,020	xxx	xxx	xxx	xxx	1,227,423
22131	Woolen and worsted apparel fabrics...	262,369	xxx	18,695	266,456	697,971	448,388	xxx	697,082	438,314	1,037,274
2213111	For Government orders:										
	Pile fabrics.....										
	All other.....	427	17.2	xxx							
2213121	Less than 13 oz.....				51,388	54,365	10,127	18.1	16,164	9,429	37,748
2213125	13 oz. up to 16 oz.....										
2213129	16 oz. and over.....	445	18.9	18							
	For other than Government orders:										
	For use in—										
	Men's and boys' clothing:										
	Less than 9 oz.:										
2213130	Worsted.....	5,270	8.4								
2213131	Woolen.....	1,265	8.6	268							
2213132	9 oz. up to 13 oz.:										
2213133	Worsted.....	41,974	11.8	6,934							
	Woolen.....	34,919	11.3	1,945							
2213134	13 oz. up to 16 oz.:										
2213135	Worsted.....	15,795	14.1	590	513,889	5366,404	222,592	14.4	353,456	213,872	578,312
	Woolen.....	10,786	14.6	322							
2213136	16 oz. up to 20 oz.:										
2213137	Worsted.....	1,158	18.2								
	Woolen.....	6,133	18.1	129							
2213138	20 oz. up to 26 oz.....	3,632	23.5								
2213139	26 oz. and over.....	2,265	28.5	xxx							
	Women's and children's clothing:										
	Less than 9 oz.:										
2213151	Worsted.....	2,999	8.3	577							
2213152	Woolen.....	15,013	8.1	578							
2213153	9 oz. up to 13 oz.:										
2213154	Worsted.....	11,310	11.3	1,753							
	Woolen.....	47,428	11.1	1,401							
2213155	13 oz. up to 16 oz.:										
2213156	Worsted.....	735	14.2		513,179	5327,202	179,066	12.2	279,084	178,712	384,399
	Woolen.....	27,039	14.5	911							
2213157	16 oz. up to 20 oz.:										
2213158	Worsted.....	1,112	17.5								
	Woolen.....	20,547	17.8	2,275							
2213159	20 oz. and over.....	12,117	23.3	994							
2213100	Woolen and worsted apparel fabrics, not specified by kind...	...	...	...	...	...	36,603	10.7	48,378	36,301	36,815
22132	Woolen and worsted nonapparel fabrics.....	21,862	xxx	893	22,259	66,515	60,166	xxx	102,750	60,050	159,976
	Nonapparel fabrics (except felts):										
	Blanketing (including fabric to be cut into blankets by own establishment):										
2213211	For Government orders.....	969	33.3		1,437	4,213	(NA)	(NA)	(NA)	(NA)	(NA)
2213231	For crib blankets.....	247	18.4		244	1,567	544	18.7	1,001	516	2,198
2213251	All other:										
	100% wool.....	6,981	22.1	893	6,550	23,342	14,590	24.9	30,025	13,961	36,058
2213261	Wool, reprocessed wool, or reused wool:										
	100% (except 100% wool).....	2,147	20.8		2,149	5,273	1,242	22.2	2,375	1,120	2,379
2213265	50-99.9%.....	2,240	21.8		2,206	4,510	5,538	21.6	11,145	4,464	9,538

See footnotes at end of table.



## WOOLEN AND WORSTED MANUFACTURES

Table 6A.—QUANTITY AND VALUE OF PRODUCTS SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, FOR THE UNITED STATES: 1954 AND 1947—Continued

Product code	Product	1954				1947					
		Total production (quantity)		Produced on commission	Total shipments including interplant transfers		Total production (quantity)			Total shipments including interplant transfers	
		1,000 linear yards	Weight in ounces per linear yard <sup>4</sup>		Quantity	Value	1,000 linear yards	Weight in ounces per linear yard	1,000 square yards	Quantity	Value
				(1,000 linear yards)	(1,000 linear yards)	(\$1,000)				(1,000 linear yards)	(\$1,000)
2213--- 22132	Woolen and worsted fabrics—Continued Woolen and worsted nonapparel fabrics—Continued Nonapparel fabrics (except felts—Continued  Other nonapparel fabrics (except felt): Transportation upholstery... All others.....	5,147 4,131 (1,000 pounds)	20.2 23.0	893	{ 5,784 3,889 (1,000 pounds)	{ 19,479 8,131 (1,000 pounds)	{ 23,402 14,850 (1,000 pounds)	{ 19.0 24.6	{ 36,322 21,882	{ 24,957 15,032 (1,000 pounds)	{ 70,328 39,475
2213281 2213285											
221333	Woven wool felts.....	9,849	xxx	xxx	9,659	46,826	xxx	xxx	xxx	xxx	30,173
2213311 2213398	Papermakers'..... All other.....	7,210 2,639	xxx xxx	xxx xxx	7,130 2,529	38,462 8,364	7,061 xxx	xxx xxx	xxx xxx	6,668 xxx	21,219 8,954
2213000	Woolen and worsted fabrics, not specified by kind.....	xxx	xxx	xxx	xxx	6,708	xxx	xxx	xxx	xxx	xxx

xxx Not applicable.

NA Not available.

<sup>1</sup>Data partially estimated from other inquiries on the report form and monthly and quarterly census commodity report. Total production of yarns does not include yarns spun for own use at knitting mills, Industry Group 225.<sup>2</sup>Code 2211012 combined with code 2211019.<sup>3</sup>Ounces per yard based on information from companies reporting both yards and pounds of production. Such companies accounted for more than 75 percent of the production of most fabric categories.<sup>4</sup>Data for 1954 include fabrics that are 50 percent or more wool by weight. 1947 data for all fabrics except blanketing, include fabrics that are 25 percent or more wool by weight.<sup>5</sup>Combined because of poor reporting

Table 6B.—VALUE OF PRODUCT CLASSES SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, BY DIVISIONS AND STATES FOR 1954, AND UNITED STATES TOTALS FOR EARLIER YEARS

(In thousands of dollars. Statistics are shown for selected product classes which are economically significant and production of which is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (Table 2) and they are not miscellaneous or "not specified by type" classes. For each product class, States are listed only if the value of shipments is more than \$1 million and the figure does not disclose individual company information. Additional States which had shipments of more than \$1 million of the individual product classes are listed in footnote 1)

Product class, region, and State <sup>1</sup>	Value of shipments	Product class, region, and State <sup>1</sup>	Value of shipments	Product class, region, and State <sup>1</sup>	Value of shipments
<u>Yarns spun on woolen systems, except carpet (22120)</u>		<u>Woolen and worsted apparel fabrics (22131)</u>		<u>Woolen and worsted apparel fabrics (22131)—Continued</u>	
1954 United States, total.....	249,807	1954 United States, total.....	697,971	South.....	177,298
1947 United States, total.....	343,076	1947 United States, total.....	1,037,274	Virginia.....	35,836
1954		1954		North Carolina.....	38,505
New England.....	124,440	New England.....	381,887	South Carolina.....	33,102
New Hampshire.....	10,951	Maine.....	57,502	Georgia.....	53,375
Massachusetts.....	27,825	New Hampshire.....	44,823	Pacific.....	11,081
Rhode Island.....	67,789	Vermont.....	14,345	<u>Woolen and worsted nonapparel fabrics (22132)</u>	
Connecticut.....	10,553	Massachusetts.....	179,595	1954 United States, total.....	66,515
Middle Atlantic.....	49,233	Rhode Island.....	53,715	1947 United States, total.....	159,976
New York.....	14,415	Connecticut.....	31,905	1954	
New Jersey.....	7,048	Middle Atlantic.....	94,312	New England.....	19,022
Pennsylvania.....	27,770	New York.....	14,650	Maine.....	6,881
East North Central.....	9,528	New Jersey.....	45,325	New Hampshire.....	2,582
Ohio.....	2,918	Pennsylvania.....	34,336	Massachusetts.....	5,464
South Atlantic.....	63,585	East North Central.....	31,052	Connecticut.....	1,129
North Carolina.....	27,680	Ohio.....	22,885	Middle Atlantic.....	6,438
South Carolina.....	19,487	Wisconsin.....	2,938	Pennsylvania.....	4,500
Georgia.....	10,202	West North Central.....	2,340	East North Central.....	13,550
				Ohio.....	8,064
				South Atlantic.....	14,672
				Pacific.....	3,235

<sup>1</sup>For the specified product classes, shipments of over \$1 million were reported for the States listed but the exact figures are withheld to avoid disclosure of individual company figures: 22110, New Jersey, Pennsylvania, and Virginia; 22120, Maine, Illinois, Wisconsin, Delaware, Virginia, and Oregon; 22131, Illinois, Michigan, Iowa, Maryland, Tennessee, Washington, and Oregon; 22132, Vermont, New Jersey, Michigan, Wisconsin, Minnesota, North Carolina, Georgia, Tennessee, and Oregon.

TABLE 7 NOT APPLICABLE TO THIS BULLETIN

Table 8.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY INDUSTRY SPECIALIZATION AND PRIMARY PRODUCT CLASS SPECIALIZATION, FOR THE UNITED STATES: 1954

(This table presents selected statistics for establishments classified according to their degree of specialization in products primary to the industry. The establishments are classified in two ways: (1) by industry specialization—the degree of specialization in all primary products of the industry; and (2) by product-class specialization—the degree of specialization in the largest product class of the establishment. The degree of "industry specialization" for an establishment represents the ratio of its primary product shipments to its total product shipments, primary and secondary. The degree of "product-class specialization" for an establishment represents the ratio of its largest product class shipments to its total product shipments, primary and secondary. Data are not shown for some industries, product classes, and specialization ranges for a variety of reasons, consequently, detailed figures frequently do not add to the totals. See Introduction for detailed explanation)

Ind. or product class No.	Industry or product class by percent of specialization	Establishments, number	All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
2213	WOOLEN AND WORSTED FABRICS.....	343	62,466	214,246	55,702	111,650	174,696	315,706	574,576	890,281
	Establishments with:									
	90% or more specialization.....	272	41,273	144,102	36,940	73,798	116,484	220,388	377,235	597,623
	75-89% specialization.....	14	9,711	32,359	8,673	17,341	27,088	43,385	107,219	150,604
	50-74% specialization.....	13	6,425	21,618	5,588	11,162	17,704	29,502	42,901	72,403
	All other <sup>1</sup> .....	44	5,056	16,167	4,500	9,349	13,420	22,429	47,221	69,650
22131	Woolen and worsted apparel fabrics:									
	All establishments specializing in product class.	200	49,739	169,184	44,718	89,594	140,943	246,647	513,272	759,919
	Establishments with:									
	90% or more specialization.....	169	31,364	107,254	28,572	57,300	90,173	162,733	315,956	478,690
	75-89% specialization.....	15	7,728	26,702	6,893	13,595	22,481	31,126	91,979	123,105
22132	Woolen and worsted nonapparel fabrics:									
	All establishments specializing in product class.	43	4,209	14,143	3,626	6,980	10,480	21,877	28,093	49,971
	Establishments with:									
	90% or more specialization.....	29	1,683	5,309	1,475	2,838	4,239	9,013	10,918	19,932
	75-89% specialization.....	3	665	2,297	593	1,100	1,644	2,319	4,592	6,911
22133	Woven wool felts:									
	All establishments specializing in product class.	19	4,575	18,402	3,742	7,490	12,287	29,580	23,869	53,449
	Establishments with:									
	90% or more specialization.....	15	3,708	15,545	3,000	6,032	10,161	25,248	19,013	44,261

<sup>1</sup>This class includes data for establishments with less than 50% specialization in the primary products of the industry and establishments engaged exclusively in contract work defined in the industry. Miscellaneous small statistical adjustments are also included.

Table 9A.—MACHINERY FOR TEXTILE FIBER AND YARN PREPARATION IN POSSESSION OF WOOLEN AND WORSTED MILLS: DECEMBER 31, 1954 AND 1947

This table presents machinery data for establishments classified in the following industries:

2211 Scouring and combing plants	2213 Woolen and worsted fabrics
2212 Yarn mills, wool, except carpet	2216 Finishing wool textiles

Data for small establishments reporting on the short form (see Introduction, Section 5) are not included.

Type of machine	December 31, 1954	December 31, 1947
Spinning spindles (thousands):		
Woolen, total.....	691	1,166
Mule.....	338	941
Ring frame.....	295	1,225
Spindle type not specified.....	158	...
Worsted:		
Bradford, total.....	654	1,203
Ring frame.....	361	462
Flyer frame.....	10	7
Cap frame.....	277	734
Spindle type not specified.....	6	...
French, total.....	343	654
Mule.....	202	511
Ring frame.....	114	143
Spindle type not specified.....	27	...
Other worsted, total.....	217	(NA)
Ring frame.....	202	(NA)
Spindle type not specified.....	15	(NA)
Worsted combs.....	2,374	2,532
Bradford.....	1,126	(NA)
French.....	1,248	(NA)

NA Not available.

<sup>1</sup>Includes a small number of cap and/or flyer frame spindles.

## WOOLEN AND WORSTED MANUFACTURES

Table 9B.—LOOMS IN POSSESSION OF WOOLEN AND WORSTED MILLS BY GEOGRAPHIC DIVISION AND STATE: 1954

This table presents machinery data for establishments classified in the following industries:

2211 Scouring and combing plants	2213 Woolen and worsted fabrics
2212 Yarn mills, wool, except carpet	2216 Finishing wool textiles

Data for small establishments reporting on the short form (see Introduction, Section 5) are not included.

Division and State <sup>1</sup>	Number of looms <sup>1</sup>
United States, total.....	22,399
New England.....	11,618
Maine.....	1,369
New Hampshire.....	1,435
Vermont.....	705
Massachusetts.....	5,258
Rhode Island.....	1,699
Connecticut.....	1,152
Middle Atlantic.....	4,446
New York.....	570
New Jersey.....	1,395
Pennsylvania.....	2,481
East North Central.....	1,548
Ohio.....	1,058
Michigan.....	190
West North Central.....	115
South Atlantic.....	4,017
North Carolina.....	1,496
South Carolina.....	674
Georgia.....	1,037
East South Central.....	380
Other Divisions.....	275

<sup>1</sup>Individual states are not listed if the number of looms reported in that state is zero, or if the data are withheld in order to avoid disclosure of individual company information. In the latter case (Indiana, Illinois, Wisconsin, Minnesota, Iowa, Maryland, Virginia, West Virginia, Tennessee, Alabama, Texas, Utah, Washington and Oregon) the figures are included in the divisional subtotal.

Table 9C.—SPINNING AND WEAVING EQUIPMENT OF WOOLEN AND WORSTED MILLS, BY SIZE OF MILL AND DEGREE OF INTEGRATION: DECEMBER 31, 1954

This table presents machinery data for establishments classified in the following industries:

2211 Scouring and combing plants	2213 Woolen and worsted fabrics
2212 Yarn mills, wool, except carpet	2216 Finishing wool textiles

Data for small establishments reporting on the short form (see Introduction, Section 5) are not included.

Mills classified by number of looms in possession	All mills, total	Degree of integration <sup>1</sup>	
		Weaving only	Spinning and weaving
All mills, total:			
Number of mills.....	276	68	208
Number of woolen and worsted spinning spindles (thousands).....	1,217	...	1,217
Number of looms.....	22,399	4,818	17,581
Mills with 500 and more looms:			
Number of mills.....	3	...	3
Number of woolen and worsted spinning spindles (thousands).....	262	...	262
Number of looms.....	1,765	...	1,765
Mills with 100-499 looms:			
Number of mills.....	55	10	45
Number of woolen and worsted spinning spindles (thousands).....	500	...	500
Number of looms.....	10,622	2,156	8,466
Mills with 50-99 looms:			
Number of mills.....	86	25	61
Number of woolen and worsted spinning spindles (thousands).....	249	...	249
Number of looms.....	6,220	1,867	4,353
Mills with 1-49 looms:			
Number of mills.....	132	33	99
Number of woolen and worsted spinning spindles (thousands).....	206	...	206
Number of looms.....	3,792	795	2,997

<sup>1</sup>Degree of integration determined by type of machinery reported.



## Cotton, Rayon, and Related Manufactures

This report shows 1954 Census of Manufactures statistics for establishments classified in each of the following industries:

Code	Title
2222--	Yarn Throwing Mills
2223--	Thread Mills
2224--	Yarn Mills, Cotton System
2233--	Cotton Broad-Woven Fabrics
2234--	Synthetic Broad-Woven Fabrics
2241--	Narrow Fabric Mills
2261--	Finishing Textiles, Except Wool

Industries covered in this report are engaged in processing cotton, silk, and man-made fibers into yarn, thread, and fabric. The seven industries described separately below represent the three major stages of fabrication: spinning or throwing of yarn, weaving of fabric, and finishing.

In 1954, as in 1947, the Census industries in this area of textiles are in greater detail than the Standard Industrial Classification. In order to provide this additional detail, sub-industries comparable to the Standard Industrial Classification were established, as follows:

Census Industry	Standard Industrial Classification Industry
2212 Yarn mills, wool, except carpet	2221 Yarn mills
2224 Yarn mills, cotton system	
2233 Cotton broad-woven fabrics	2231 Broad-woven fabric mills (cotton, silk, and synthetic fiber)
2234 Synthetic broad-woven fabrics	

By showing data for these sub-industries, greater comparability with past Censuses is provided and separate information is made available for the important segments of the textile industries. Data for Census Industry 2212 are contained in the report for Woolen and Worsted Manufactures.

Because of variations in the degree of integration of processes within individual mills, there is a considerable amount of overlapping of production among the seven industries. Industry 2224, Yarn Mills, Cotton System, for example, produces only a small part of the spun yarn used in weaving mills (Industries 2233, 2234, and 2241); the bulk of such yarn is produced in integrated mills classified in the weaving industries. The extent to which products, such as yarns, are produced for consumption by the producing establishment can be approximated from Table 6A by taking the difference between (1) total production for all purposes and (2) the sum of production on commission and shipments and interplant transfers. The variations in integration within mills, as measured by the kinds of equipment employed, are described statistically in Table 9D.

Integration at the company level, as distinguished from integration at the mill level, although not measured specifically in this report, is also of considerable importance.

The 1954 product shipments data for weaving mills, Industries 2233 and 2234 are affected by a change in reporting procedures as compared to 1947 and subsequent Annual Surveys of Manufactures. In 1947, establishments producing gray goods, finishing such goods and selling finished fabrics reported such fabrics as gray goods with their gray goods value and as a separate item reported the value added by finishing the goods. In 1954 establishments were requested to report value of gray goods only when such goods were shipped in the gray goods state. Shipments of finished fabrics were reported as finished goods at their full value. The resulting figures for 1954 gray goods are therefore not comparable to the 1947 information. This is particularly true for such fabric classes as cotton sheetings and towelings, and rayon and acetate pile, drapery,

and upholstery fabrics where a large proportion of the gray goods are finished in the producing mill.

The reporting of finished goods shipments by finishing plants was also changed. In 1947 such plants shipping fabrics owned by the plant reported the value added by finishing fabrics. In 1954 such fabrics were reported at their full value.

Data for machinery installed in establishments classified in the industries included in this bulletin are shown in Tables 9A-9D. Comparable statistics for cotton-system spinning spindles appear in the Census Bureau's monthly Facts For Industry Series M15-1 & 3, "Cotton, Linters and Synthetic Staple." The number of spindles shown in this report for both 1954 and 1947 are approximately one million less than the number shown in the Facts For Industry Series. This difference is largely due to the cotton-system spindles operated by establishments classified in industries other than those listed above, such as knitting mills and cordage and twine mills. Such establishments were not asked to report the number of spindles or other textile machinery in possession.

The loom information shown in Tables 9B and 9D are comparable to data shown in the Facts For Industry Series M15A, "Cotton Broad Woven Goods;" M15C, "Synthetic Broad Woven Goods;" and M15M, "Tire Cord and Tire Fabrics." Differences to the data shown in the Facts For Industry Series are generally small and are due to classification changes and reporting changes for individual establishments.

The Census Bureau conducts a quarterly Facts For Industry survey of broad woven goods, including tire cord and tire fabric, and an annual survey of cotton, silk, and man-made fiber broad woven fabrics finished. These surveys include data on fabric production and fabric finished (in terms of linear yards) and tire cord and fabric production in pounds. A routine comparison of Census of Manufactures returns with the commodity survey reports for the same mills resulted in some corrections to the commodity survey reports. In addition, the few mills which do not report in the commodity surveys were included in the Census. The production figures for the specified products in Table 6A may thus be taken as final data for 1954, superseding those previously published in Facts For Industry Series M15A, "Cotton Broad Woven Goods;" M15C, "Synthetic Broad Woven Goods;" M15M, "Tire Cord and Tire Fabric;" and M15G, "Cotton and Synthetic Woven Goods Finished." The production data shown for product code 2234798, All other woven fabrics, is however, not comparable to the information shown in the M15C Facts For Industry report because it includes open mesh bagging which is excluded from the commodity survey.

### 2222--Yarn Throwing Mills

This industry comprises establishments primarily engaged in throwing or twisting filament yarn (continuous strands) of silk, rayon, or other synthetic fibers. Establishments primarily engaged in the winding and warping of filament yarn are also included in this industry; those engaged in similar operations on spun yarn are classified in Industry 2224, Yarn Mills, Cotton System. For a detailed list of primary products of Industry 2222, refer to Table 6A, product codes 2222011 to 2222098.

The value of shipments of Industry 2222, Yarn Throwing Mills, in 1954 totaled \$99 million. This included shipments of primary products (thrown yarn), valued at \$41 million, shipments of secondary products valued at \$3 million, and receipts for commission work (throwing of yarn owned by others) of \$55 million.

Industry 2222 shipments of thrown yarn in 1954 represented 93 percent of its total product shipments (primary and secondary). On the basis of shipments of thrown yarn and receipts for commission throwing, the primary activity specialization ratio of Industry 2222 was 97 percent in 1954.

Industry 2222 shipments of thrown yarn in 1954 represented 79 percent of the thrown yarn, valued at \$52 million, shipped by all industries. This coverage ratio for 1947 is not available. A large quantity of thrown yarns is produced captively (for their own consumption) by establishments classified in other industries, principally Industry 2234, Synthetic Broad-Woven Fabrics. A breakdown of thrown yarn production classified by industry is not available. However, approximately 50 percent of all throwing and twisting spindles are located in plants with weaving equipment.

Generally the establishments in Industry 2222 are of two kinds (1) those which process on a commission basis yarns owned by others and (2) those which process their own yarns. ("Captive" establishments processing yarn for use in weaving or knitting mills owned by the same company were generally reported as processors of own yarn in the 1954 Census.) Commission throwsters and other commission processors excluded the value of the yarn processed, from both the "cost of materials" and the "products shipped" items. The total cost of materials for the industry therefore includes the cost of the yarn processed only for establishments processing yarn for their own account. The total value of shipments for the industry is a composite figure including, for commission processors, receipts for commission processing, and for other processors, the value of the finished yarn transferred or sold to other establishments. Value added by manufacture is, however, similar in concept for both types of establishments and comparable to the same figure for other industries. (See Introduction, Value Added by Manufacture.)

The sequence of operations involved in throwing silk or man-made yarns can only be given in general terms since there are many variable factors. The preparatory operations include reeling, soaking, tinting, extracting, and drying, followed by winding on spools suitable for twisting. Yarn on the supply packages (cones, cheeses, etc.) usually has a low twist ("producer's twist") as it comes from the man-made fiber plant. Throwing as performed by throwsters, consists essentially of imparting a higher twist to the yarn. After throwing, the yarn is conditioned to set the twist.

Winding and warping consists of transferring yarn from one type of package to another (the "package" in warping is a warp beam). Most of the rewinding in this industry is performed on a commission basis. No figures on the production of rewound yarn were collected in the Census; in the very few instances of establishments rewinding yarn for sale, the value of shipments was included in 2222098, "all other products." (See Table 6A.)

#### 2223--Thread Mills

This industry comprises establishments primarily engaged in manufacturing thread of cotton, wool, silk, rayon or other synthetic fibers. Important products of this industry include sewing, crochet, darning, embroidery, tatting, and hand-knitting threads. Establishments primarily engaged in finishing thread are also included in this industry. Establishments primarily engaged in manufacturing flax thread are included in Industry 2299, "Textile Goods, N.E.C.;" and cordage and twine in Industry 2298, "Cordage and Twine." For a detailed list of primary products of Industry 2223 refer to Table 6A product codes 2223111 to 2223298.

The value of shipments of Industry 2223, Thread Mills, in 1954 totaled \$184 million. This included shipments of primary products (thread) valued at \$158 million, shipments of secondary products (cotton system yarns and other products) of \$21 million, and miscellaneous receipts (principally receipts for mill waste) of \$5 million.

Industry 2223 shipments of thread in 1954 represented 88 percent of its total product shipments (primary and secondary). In 1947 this primary product specialization ratio was 85 percent.

Industry 2223 shipments of thread in 1954 represented 94 percent of the thread valued at \$167 million shipped by all industries. Included in this total is gray thread shipments transferred to other plants for finishing. This results in duplication in the value of thread shipments of approximately 18 percent (see Table 6A).

The principal material used in this industry is cotton, either in the form of raw cotton or of yarn; cotton accounts for over 95 percent of the thread produced. The remainder consists of small quantities of silk, nylon, and other man-made fibers.

2224--Yarn Mills, Cotton System (Part of Standard Industrial Classification Industry 2221, Yarn Mills, Cotton, Wool, Silk, and Synthetic Fiber)

This industry comprises establishments primarily engaged in the spinning of yarn on the cotton system from cotton, wool, silk, rayon, or other man-made staple fibers, or in the manufacture of tire cord and fabric. Establishments primarily engaged in twisting, winding, plying, or spooling of spun yarns are also included in this industry. Important products of this industry include weaving, machine-knitting, hand-knitting, crochet, darning and embroidery yarns; tire cord and fabric.

The 1947 Census definition of Industry 2224 has been changed in two respects for the 1954 Census. First, it now includes the few silk system yarn mills for which separate industry statistics were shown in 1947; according to information obtained in the 1954 Census, the spinning of fibers on the silk system is confined to a very few establishments in the United States. Secondly, it includes establishments primarily engaged in manufacturing tire cord and fabric, which were previously classified in Census Industry 2233, Cotton Broad-Woven Fabrics; this is in accordance with a recent amendment of the Standard Industrial Classification by the Bureau of the Budget. In accepting this revision the Bureau of the Budget recognized that tire cord and tire fabric are very similar products, usually made in the same mills. Tire cord "fabric" consists of plain tire cords loosely held in a flat sheet by means of light filling yarns widely spaced. These are inserted on a special loom. It is noted in textile reference works that tire cord "fabric" is not really a fabric in the ordinary sense; the "weaving" process could, in fact, be considered to be merely a special way of packaging tire cord. The 1947 data have been retabulated to reflect these changes in definition. For a detailed list of primary products of Industry 2224 in 1954, refer to Table 6A, product codes 2224111 to 2224398 and 2225011 to 2225078.

The value of shipments of Industry 2224, Yarn Mills, Cotton System, in 1954 totaled \$1,031 million. This included shipments of primary products (cotton yarn, spun man-made fiber yarn, and tire cord and fabric) valued at \$950 million, shipments of secondary products valued at \$49 million, and miscellaneous receipts (mainly mill waste and commission work on materials owned by others) of \$33 million.

Industry 2224 shipments of cotton system yarn mill products in 1954 represented 95 percent of its total product shipments (primary and secondary). Secondary products shipped by Industry 2224 in 1954 included cotton broad-woven fabrics, \$26 million; and finished yarn and raw stock, \$10 million.

Industry 2224 shipments of tire cord and fabric in 1954 represented 94 percent of the tire cord and fabric shipped by all industries. This coverage ratio for shipments of these product classes is practically identical with the coverage ratio for production because "captive" production (i.e., production within tire producing factories) is nonexistent. However, part of the shipments of tire cord and fabric are made by plants that are owned by the tire companies. Separate data are not available for the transfers from such plants as differentiated from sales of tire cord and fabric.

Shipments (including interplant transfers) of cotton system yarns by Industry 2224 in 1954 represented 92 percent of the total shipments of such products, valued at \$678 million, shipped by all industries. However, a major portion of the total production of yarns is never shipped, but is consumed in the producing establishment in the manufacture of woven fabrics. An approximation of this amount can be obtained from Table 6A by subtracting total shipments and interplant transfers from total production.

The data shown for shipments include transfers to other plants of the producing company and are not equal to shipments of sales yarn. In 1947 shipments of thrown and spun sales yarn was approximately 80 percent of total shipments including interplant transfers of such yarns. A breakdown of yarn production data showing production for sale and production for own use is shown in Table 6C.

The total production of yarn shown in this report does not include production by establishments classified as knitting mills, cordage and twine mills, and in some other industries not included in this bulletin. These establishments operated approximately 4 percent of all cotton-system spindles in 1954.

The processes performed in manufacturing cotton-system yarn are basically opening, picking, carding, combing (where required for combed yarn), drawing, roving, and spinning. Nearly all of the cotton-system yarn mills included in the industry are integrated in the sense that fiber preparation and spinning of yarn are performed in the same mill.



**2233--Cotton Broad-Woven Fabrics** (Part of Standard Industrial Classification 2231, Broad-Woven Fabric Mills, Cotton, Silk, and Synthetic Fiber)

This industry comprises establishments primarily engaged in weaving fabrics over 12" in width, of cotton or mixtures in which cotton is the principal fiber by weight. Important products of this industry include apparel fabrics, and mechanical and industrial fabrics of cotton; such as duck, osnaburgs, sheetings, print cloth, flannels, denims, shirtings, towelings, draperies and upholstery fabrics. Establishments primarily engaged in weaving cotton carpets and rugs are classified in Industry 2273, Carpets and Rugs, Except Wool.

Establishments weaving gray goods and further processing them into finished fabrics or fabricated textile products such as sheets, towels, bedspreads, etc., are classified in this industry.

In 1947, establishments primarily engaged in manufacturing tire cord and tire fabrics were classified in this industry. As a result of a recent amendment made by the Technical Committee of the Bureau of the Budget, such establishments are now classified in Industry 2224, Yarn Mills, Cotton System. The 1947 statistics have been retabulated to reflect this change in definition.

Changes in reporting of gray goods and finished goods shipments as discussed above affect the comparability of the product data. In addition, there was a change in reporting by some textile mills with fabricating departments. In 1947, separate reports were received for a number of such departments. These reports were usually classified in Industry 2392, Housefurnishings, N.E.C. In 1954 several of these departments were included in the textile mill report. This change increased the employment for Industry 2233 by an estimated 2-3 percent, and reduced the employment for Industry 2392 by more than 15 percent.

For a detailed list of primary products of Industry 2233, refer to Table 6A, product codes 2233111 to 2233898, 2261111 to 2261151, and 2392211 to 2392300.

The value of shipments of Industry 2233, Cotton Broad-Woven Fabrics, in 1954 totaled \$2,790 million. This included shipments of primary products (cotton broad-woven gray and finished fabrics, sheets, pillowcases, and towels) valued at \$2,549 million, shipments of secondary products valued at \$165 million, and miscellaneous receipts of \$76 million.

Industry 2233 shipments of its primary products in 1954 represented 94 percent of its total product shipments (primary and secondary). Secondary products shipped by Industry 2233 in 1954 included cotton system yarns, \$25 million, and rayon and related broad-woven fabrics, \$55 million.

Industry 2233 shipments of cotton broad-woven fabrics, sheets, pillow-cases, and towels, represented 84 percent of such products, valued at \$3,036 million, shipped by all industries.

An important characteristic of the industry is that most of the mills, particularly the large and medium-size mills, perform all stages of fabrication from raw fiber to woven fabric, including the processes of fiber preparation, spinning, spooling, warping, slashing, weaving, shearing, and inspecting. The finishing of yarn (bleaching, dyeing, mercerizing) before weaving is fairly common; some fabrics are also put through finishing processes (bleaching or dyeing) before they leave the mill. For the most part, however, fabric is shipped by the industry as gray or unfinished goods.

The extent of integration of some of these processes in individual mills is brought out in Table 9D, which shows by size of mill the number with weaving equipment only; with spinning and weaving equipment; with weaving and finishing equipment; and with spinning, weaving, and finishing equipment.

The principal purchased materials of the industry are cotton fiber and cotton yarn. As indicated in Table 7A relatively small amounts of other fibers and yarn (rayon, acetate, wool, etc.) are also consumed by the industry. The latter materials are used both in the production of cotton fabrics (i.e., mixtures in which cotton is the principal fiber) and in the "secondary" production of man-made fiber or woolen fabrics.

**2234--Synthetic-Broad Woven Fabrics** (Part of Standard Industrial Classification 2231, Broad-Woven Fabric Mills, Cotton, Silk, and Synthetic Fiber)

This industry comprises establishments primarily engaged in weaving fabrics over 12" in width of silk or man-made fibers, including mixtures in which those fibers are the principal fiber by weight. Paper and glass broad-woven fabrics are included in this industry. Important products of the industry include apparel fabrics, household fabrics, and industrial and mechanical fabrics of the specified fibers. For a detailed list of primary products of Industry 2234 refer to Table 6A, product codes 2234111 to 2234798.

Jobbers who do no manufacturing but consign yarn to commission mills for weaving were included in the data for this industry for 1947, but are excluded for 1954. Employment and payroll data for jobbers are negligible; data on shipments are more significant. However, since the overall industry statistics are believed to be substantially comparable between the two years, the 1947 data have not been retabulated by 1954 classifications.

The value of shipments of Industry 2234, Synthetic Broad-Woven Fabrics, in 1954 totaled \$1,143 million. This included shipments of primary products (silk and man-made fiber broad-woven fabrics) valued at \$955 million, shipments of secondary products valued at \$141 million, and miscellaneous receipts (mainly commission work on materials owned by others) of \$46 million.

Industry 2234 shipments of primary products in 1954 represented 87 percent of its total product shipments (primary and secondary). In 1947, this primary product specialization ratio was 85 percent. Secondary products shipped by Industry 2234 in 1954 consisted mainly of cotton broad-woven goods, \$89 million, and woolen and worsted goods valued at \$18 million.

Industry 2234 shipments of silk and man-made fiber broad-woven fabrics represented 90 percent of the total of such fabrics, valued at \$1,062 million, shipped by all industries. Other industries shipping synthetic broad-woven goods in 1954 included Industry 2233, Cotton Broad-Woven Fabrics, \$55 million.

The mills in Industry 2234 are mainly of three types with respect to processes employed: mills with spinning (or throwing), weaving and finishing equipment; those with spinning or throwing and weaving but no finishing equipment; and those with weaving equipment only.

Integration is important at the company level as well as at the mill level. The larger companies in the industry operate several fabric mills weaving man-made fibers, and also operate finishing plants classified in Industry 2261. Some also operate cotton mills, woolen and worsted mills, or knitting mills.

The extent of integration of processes in individual mills is shown in Table 9D, which shows by size of mill the number with weaving equipment only; with spinning or throwing and weaving equipment; with weaving and finishing equipment; and with spinning, throwing, weaving, and finishing equipment. Mills primarily engaged in spinning synthetic staple fibers are classified in Industry 2224, and those primarily engaged in throwing synthetic filament yarn in Industry 2222, while plants primarily engaged in dyeing or printing are classified in Industry 2261.

The principal materials used by Industry 2234 are filament yarns and man-made staple (either in the form of raw fiber or purchased spun yarn). Substantial changes which took place between 1947 and 1954 include increased use of rayon and acetate spun yarns, and of noncellulosic fibers (nylon, acrylic and polyester fibers, etc.) accompanied by a decrease in the use of rayon filament yarns.

**2241--Narrow Fabric Mills** (Full Standard Industrial Classification Title: Narrow Fabrics and Other Smallwares Mills: Cotton, Wool, Silk, and Synthetic Fiber)

This industry comprises establishments primarily engaged in weaving or braiding fabrics 12" or narrower in width of cotton, wool, silk, rayon, or other synthetic fibers. Establishments primarily engaged in weaving or braiding fabrics 12" or narrower in width of fabric-covered elastic yarn are also included in this industry. Important products of this industry include fabric belting (mechanical and apparel), ribbons, tapes, bindings and gimps, woven labels, hatbands, elastic and nonelastic webbing, covered rubber yarns and threads, and fabric lacings. For a detailed list of primary products of Industry 2241, see Table 6A, product codes 2241111 to 2241511.



The value of shipments of Industry 2241, Narrow Fabric Mills, in 1954 totaled \$250 million. This included shipments of primary products (narrow fabrics), valued at \$235 million, shipments of secondary products, valued at \$9 million, and miscellaneous receipts (mainly commission work on materials owned by others) of \$7 million.

Industry 2241 shipments of narrow fabrics in 1954 represented 96 percent of its total product shipments (primary and secondary). In 1947, this primary product specialization ratio was 95 percent.

Industry 2241 shipments of narrow fabrics represented 94 percent of the narrow fabrics, valued at \$250 million, shipped by all industries. This coverage ratio in 1947 was 98 percent.

The operations performed in a typical narrow fabric mill include yarn preparation, weaving or braiding, and finishing (dyeing, printing, etc.). A few of the mills in the industry also spin yarn from cotton or synthetic staple for their own use. Practically all finishing of narrow fabrics is carried on in this industry.

As suggested in the industry description, Industry 2241 uses a wide variety of fibers. However, the manufacturers' records of production and sales generally do not distinguish between products by type of fiber employed; therefore, the detailed shipments figures in Table 6A, group all fibers under each product category. In Table 7A, however, the principal materials consumed (yarns) are shown by type of fiber.

2261--Finishing Textiles, Except Wool (Full Standard Industrial Classification Title: Dyeing and Finishing Textiles, Except Woolen and Worsted Textiles and Knit Goods).

This industry comprises establishments primarily engaged in bleaching, dyeing, printing, finishing or otherwise processing fabrics, yarn, or raw stock other than woolen or worsted. Plants primarily engaged in flocking or sueding of fabrics or printing or embossing on plastic are also included in this industry. Establishments primarily engaged in dyeing or finishing knit goods are classified in Industry Group 225, Knitting Mills; and in finishing woolen and worsted goods, in Industry 2216, Finishing Wool Textiles (Census equivalent of Standard Industrial Classification Industry 2262). The sponging and shrinking of cloth is included in Industry 2399, Fabricated Textile Products, N.E.C.

Establishments manufacturing basic textiles (yarn or fabric) are classified as yarn mills or woven fabric mills, Industries 2222, 2224, 2233, or 2234, even though all or a part of the shipments consist of finished products. This practice differs from that employed for most industries, where the primary product shipped determines the industrial classification. The exception was made here in the Standard Industrial Classification because in an integrated mill the basic textile operation usually constitutes the primary activity, in terms of labor and capital input.

The extent to which finished fabrics are shipped by weaving mills is indicated in Table 5B. In addition Table 9D shows the number of weaving mills operating finishing equipment.

The value of shipments of Industry 2261, Textile Finishing, Except Wool, in 1954 totaled \$998 million. This consisted of shipments of primary products (finished fabrics and yarn) valued at \$343 million, shipments of secondary products valued at \$54 million, and miscellaneous receipts (mainly commission work on materials owned by others) of \$602 million.

Industry 2261 shipments of primary products in 1954 represented 86 percent of its total product shipments (primary and secondary). This primary product specialization ratio, including commission finishing receipts, was 95 percent in 1954.

Industry 2261 shipments of primary products (finished textiles, except wool) in 1954 represented 41 percent of these products, valued at \$844 million, shipped by all industries. Weaving mills (Industries 2233 and 2234) were the principal other industries shipping finished textiles.

The establishments in this industry are of two types (1) those which process on a commission basis materials owned by others and (2) those which process their own materials. "Captive" plants finishing goods for integrated weaving companies were generally reported as commission finishers in the 1954 Census. Commission dyers and other commission finishers were instructed to exclude the value of the material processed (fiber, yarn, or fabric) in both the "cost of materials" and the "products shipped" items. The total cost of materials for the industry therefore includes the cost of the goods finished only for establishments finishing for their own account. The "total value of shipments and receipts" of the industry is a composite figure including (for commission finishers) receipts for finishing and (for independent finishers) the value of the finished goods shipped or sold. In the 1947 Census of Manufactures, an attempt was made to resolve this problem by requesting independent finishers to report as "shipments" the "value added by finishing"--i.e., the margin between the cost of the gray goods and the value of the finished goods. This method was not employed in the 1954 Census, because the 1947 experience indicated the plan was not practical.

A substantial amount of fabric is finished on commission for the account of "converters" who buy gray goods from the weaving mills, arrange to have the finishing done, and sell the finished cloth in the apparel or other markets. While the fabric is owned by the converter, the commission finisher usually supplies the dyestuffs and miscellaneous materials which are included in his receipts for finishing.

Since the converter usually owns no manufacturing facilities, his establishment is classified in the wholesale trade industries and was excluded from the Census of Manufacturers. However such establishments did report in the 1954 Census of Business. In that Census there were 587 establishments reporting sales of piece goods converted for them by manufacturing establishments. The total sales of these establishments in 1954 was \$1,012 million which included \$884 million of converted piece goods. Approximately 94 percent of this latter figure represented sales from establishments located in New York State. The converters' sales figure of \$1,012 million does not include the sales reported by offices operated by large integrated textile companies, which were classified in the 1954 Census of Business as "manufacturers' sales offices."

The plants included in Industry 2261 fall into three broad categories; cotton bleaching and dyeing, synthetic and silk dyeing, and printing (roller, screen or block). These processes are usually not performed in the same plant. Textiles may be dyed at four different stages: (a) during the formation of the fiber (man-made fibers only), (b) as a staple fiber before being made into yarn, (c) as yarn, and (d) as a fabric. Dyeing is most common in the fabric stage; printing, except for an insignificant amount of novelty yarn printing, is performed only on fabric.

The general statistics (employment, payrolls, value of shipments, cost of materials, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products, and, for that matter, their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (Tables 1-4) with product statistics (Table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in Table 5A which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry made as secondary products by establishments classified in other industries.

## COTTON, RAYON AND RELATED MANUFACTURES

22B-5

Table 1.--GENERAL STATISTICS FOR THE UNITED STATES: 1954 AND EARLIER YEARS  
(For explanation of column captions see Introduction)

Industry and census year	Establish- ments, number	All employees		Production workers		Value added by manufacture <sup>2</sup>	Cost of materials, etc.	Value of shipments <sup>3</sup>
		Number <sup>1</sup>	Payroll (\$1,000)	Number <sup>1</sup>	Wages (\$1,000)			
Yarn throwing mills (S.I.C. 2222):								
1954 <sup>4</sup>	137	11,840	32,046	10,849	26,790	53,964	45,263	99,227
1953 <sup>4</sup>	(NA)	13,435	37,060	12,296	30,621	55,360	42,785	98,145
1952 <sup>4</sup>	(NA)	17,161	43,031	15,793	36,811	67,689	43,449	111,138
1951 <sup>4</sup>	(NA)	16,961	41,188	15,564	35,273	63,059	35,384	98,443
1950 <sup>4</sup>	(NA)	15,899	35,894	14,572	31,009	56,514	33,176	89,690
1947 <sup>4</sup>	122	14,866	28,401	13,800	24,323	45,970	18,203	64,173
1939 <sup>5</sup>	161	(NA)	(NA)	25,740	16,404	29,448	46,676	76,124
Thread mills (S.I.C. 2223):								
1954 <sup>4</sup>	97	13,908	38,281	12,221	29,267	62,694	121,052	183,746
1953 <sup>4</sup>	(NA)	14,802	40,986	13,296	33,431	70,995	102,957	173,952
1952 <sup>4</sup>	(NA)	14,828	41,891	13,113	33,597	66,059	118,602	184,661
1951 <sup>4</sup>	(NA)	17,331	47,542	15,277	37,774	79,159	(NA)	(NA)
1950 <sup>4</sup>	(NA)	15,812	41,347	13,920	32,686	67,039	112,790	179,829
1949 <sup>4</sup>	(NA)	14,287	35,261	12,642	33,486	66,520	85,479	151,999
1947 <sup>4</sup>	89	14,652	33,240	13,126	26,930	67,372	86,897	154,269
1939 <sup>5</sup>	87	(NA)	(NA)	14,382	11,458	27,122	29,164	56,286
Yarn mills, cotton system <sup>6</sup> (Census Code 2224):								
1954 <sup>7</sup>	357	85,275	197,292	80,944	175,558	298,833	731,793	1,030,627
1947 <sup>7</sup>	474	121,391	238,913	116,661	218,924	446,761	715,846	1,162,607
Cotton broad-woven fabrics <sup>6</sup> (Census Code 2233):								
1954 <sup>7</sup>	582	296,193	783,011	280,546	702,649	1,127,507	1,662,114	2,789,621
1947 <sup>7</sup>	575	330,196	705,746	316,288	645,065	1,448,972	1,463,679	2,912,651
Synthetic broad-woven fabrics <sup>6</sup> (Census Code 2234):								
1954 <sup>7</sup>	478	89,994	272,872	83,120	234,476	422,765	719,864	1,142,629
1953 <sup>4</sup>	(NA)	105,607	313,407	97,375	273,184	463,323	1,030,733	1,494,056
1952 <sup>4</sup>	(NA)	102,466	312,657	95,064	270,591	457,458	945,281	1,402,739
1951 <sup>4</sup>	(NA)	105,624	316,561	98,201	276,048	457,219	954,988	1,412,207
1950 <sup>4</sup>	(NA)	96,833	274,890	89,688	236,234	498,605	673,075	1,171,680
1949 <sup>4</sup>	(NA)	93,645	256,699	84,997	220,410	452,763	582,254	1,035,017
1947 <sup>4</sup>	507	97,648	232,072	91,174	204,991	488,048	514,875	1,002,923
1939 <sup>5</sup>	394	83,546	73,736	79,595	64,886	115,015	199,840	314,855
1937 <sup>9</sup>	435	(NA)	(NA)	76,298	63,752	105,851	188,955	294,806
1935 <sup>10</sup>	670	89,739	76,319	85,612	67,842	108,673	156,210	264,883
Narrow fabric mills (S.I.C. 2241):								
1954 <sup>7</sup>	513	25,676	79,063	22,862	61,456	121,547	128,615	250,162
1953 <sup>4</sup>	(NA)	28,971	86,710	26,022	68,761	132,588	159,691	292,279
1952 <sup>4</sup>	(NA)	23,465	74,086	20,487	57,025	116,775	159,332	276,755
1951 <sup>4</sup>	(NA)	26,835	83,610	23,420	61,662	141,793	183,277	325,718
1950 <sup>4</sup>	(NA)	25,075	72,175	22,197	54,156	107,012	132,378	240,037
1949 <sup>4</sup>	(NA)	27,284	71,861	23,964	52,976	102,177	96,643	197,254
1947 <sup>4</sup>	480	28,080	65,011	25,295	52,494	110,571	104,166	215,194
1939 <sup>5</sup>	400	(NA)	(NA)	24,591	21,092	47,319	39,293	86,612
1937 <sup>11</sup>	354	(NA)	(NA)	22,915	20,338	40,197	36,392	76,589
1935 <sup>10</sup>	353	23,479	23,141	21,380	18,007	35,742	31,950	67,692
Finishing textiles, except wool (S.I.C. 2261):								
1954 <sup>7</sup>	725	79,308	292,324	68,485	228,262	464,165	533,979	998,144
1953 <sup>4</sup>	(NA)	82,552	298,274	72,384	238,306	478,972	(12)	(12)
1952 <sup>4</sup>	(NA)	83,185	297,402	72,697	238,111	456,123	(12)	(12)
1951 <sup>4</sup>	(NA)	81,019	273,080	70,731	214,830	417,986	(12)	(12)
1947 <sup>4</sup>	641	77,985	218,933	69,035	176,094	359,270	(12)	(12)
1939 <sup>5</sup>	468	68,460	82,289	60,237	61,745	130,695	140,472	271,167
1937 <sup>13</sup>	442	(NA)	(NA)	61,552	64,220	116,458	88,633	205,091

NA Not available. <sup>1</sup>For the period 1949-1954, figures are based on employment for the payroll periods ended nearest the 15th of March, May, August and November. For 1947, they represent the average of 12 monthly figures. For earlier years, the production worker average was calculated as in 1947, but the figure for all employees represents the sum of the annual average number of production workers and the number of nonproduction workers reported for one payroll period (usually in October). <sup>2</sup>Value of products less cost of materials, supplies, fuel, electric energy and contract work. See Introduction, "Value Added by Manufacture." For the "Narrow fabric mills" industry, 1947 value added by manufacture does not equal the published value of shipments less cost of materials, etc. because an estimated value of production was used in the calculation in place of value of shipments. Since the 1949-1952 estimates were derived from 1947 base totals, the same inequality may exist for these years. <sup>3</sup>For 1947-1954, value of shipments; for all other years, value of production. See Introduction, "Value of Shipments." <sup>4</sup>The figures for 1949-1953 represent estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period. Estimates with a standard error in excess of 15 percent generally have been omitted from this table. <sup>5</sup>The figures for 1939 are not entirely comparable with those for earlier years. Value added by manufacture for 1939 on a basis comparable with earlier years was \$438.3 million for "Cotton broad-woven fabrics" and \$45.4 million for "Narrow fabric mills." No comparable figures are available for earlier years for "Yarn throwing mills," and "Thread mills." <sup>6</sup>Although Census industry definitions correspond to the Standard Industrial Classification, some of the industries have been renumbered and regrouped to provide totals for cotton and related manufactures. The Census industry code numbers, titles and their corresponding S.I.C. numbers are as follows:

S.I.C. Number	Title	Census Number
2221	Yarn mills, cotton system	2224
	Yarn mill, wool systems, except carpet	2212
	Cotton broad-woven fabrics	2233
2231	Synthetic broad-woven fabrics	2234

<sup>7</sup>Industry 2224, "Yarn mills, cotton system" includes establishments primarily producing yarns on the silk system (formerly Industry 2225). Data for 1947 have been retabulated to include establishments primarily producing tire cord and tire fabrics. The figures for other years could not be revised and, therefore, have been omitted. <sup>8</sup>The 1947 figures have been revised for comparability with 1954 by excluding data for establishments primarily engaged in manufacture of tire cord and tire fabrics. The figures for other years could not be revised and, therefore, have been omitted. <sup>9</sup>The figures for Synthetic broad-woven fabrics for 1937, 1939 and 1947-1954 relate to establishments primarily producing fabrics over 12 inches in width, whereas the figures for 1935 relate to establishments primarily producing fabrics 18 inches and over in width. Data for dyeing and finishing departments of integrated rayon and silk broad-woven fabric mills are included in the figures for 1937-1954 but not for 1935. Value added for 1937 on a basis comparable with 1935 was \$104.8 million. <sup>10</sup>Synthetic broad-woven fabrics and "Narrow fabric mills" were formerly included in the discontinued classifications "Silk and rayon goods" and "Cotton smallwares." Separate figures are, therefore, not available for years prior to 1935. <sup>11</sup>The figures for "Narrow fabric mills" for 1937, and later years relate to mills primarily producing fabrics 12 inches and under in width. The figures for 1935 relate to silk and rayon mills primarily producing fabrics under 18 inches in width and cotton mills primarily producing fabrics 12 inches and under in width. Value added for 1937 on a basis comparable with 1935 was \$39.8 million. <sup>12</sup>Not comparable with data for other years. See Introduction. <sup>13</sup>No comparable data available for earlier years.



## MANUFACTURES--INDUSTRY STATISTICS

Table 2.—GENERAL STATISTICS BY REGIONS AND STATES: 1954 AND 1947  
(For explanation of column captions see Introduction)

Industry, region, and State <sup>1</sup>	1954											1947	
	Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
	Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
Yarn throwing mills (S.I.C. 2222), total.....	137	99	11,840	32,046	10,849	21,327	26,790	53,964	45,263	99,227	3,211	14,866	45,970
New England.....	10	6	545	1,735	475	966	1,194	2,821	1,574	4,396	158	504	1,976
Middle Atlantic.....	85	61	6,772	17,942	6,221	12,025	15,196	27,915	14,835	42,750	1,545	10,531	31,508
New York.....	18	6	904	2,590	853	1,590	2,323	4,548	1,815	6,364	178	930	3,478
New Jersey.....	12	6	384	1,028	344	630	833	1,466	1,531	2,998	45	390	1,630
Pennsylvania.....	55	49	5,484	14,324	5,023	9,804	12,038	21,901	11,487	33,388	1,321	9,211	26,400
All other divisions.....	42	32	4,522	12,368	4,151	8,335	10,399	23,226	28,853	52,080	1,507	3,831	12,486
Virginia.....	5	5	824	2,232	804	1,720	2,122	3,897	695	4,592	61	758	(D)
North Carolina.....	24	17	2,298	6,525	2,061	4,049	5,198	12,222	17,309	29,532	(D)	1,806	(D)
Thread mills (S.I.C. 2223), total.....	97	53	13,908	38,281	12,221	22,807	29,267	62,694	121,052	183,746	8,543	14,652	67,372
New England.....	30	20	3,696	11,486	3,149	5,951	8,317	18,483	25,338	43,822	426	8,692	41,236
Connecticut.....	8	5	2,469	7,242	2,134	4,005	5,606	11,316	15,767	27,083	242	2,444	(D)
Middle Atlantic.....	38	12	1,111	4,229	725	1,047	1,691	6,862	13,388	20,251	209	1,478	9,929
East North Central.....	4	...	29	83	25	49	61	121	153	275	9	(D)	(D)
South.....	25	21	9,071	22,483	8,322	15,758	19,196	37,226	82,171	119,398	7,898	(D)	(D)
North Carolina.....	13	10	2,648	6,673	2,404	4,720	5,609	12,179	30,696	42,876	(D)	1,366	5,371
Yarn mills, cotton system (Census Code 2224), total.....	357	313	85,275	197,292	80,944	144,959	175,558	298,833	731,793	1,030,627	18,501	121,391	446,761
New England.....	31	23	4,155	11,895	3,724	6,811	9,577	15,750	20,613	36,363	310	(D)	(D)
Massachusetts.....	16	13	1,717	4,868	1,608	2,939	4,128	7,504	10,054	17,559	(D)	(D)	(D)
Rhode Island.....	8	5	1,699	4,977	1,421	2,631	3,742	5,369	6,658	12,028	83	(D)	(D)
Middle Atlantic.....	38	12	1,276	3,921	1,149	2,201	3,313	4,242	23,548	27,791	558	3,988	(D)
New York.....	17	5	561	1,557	511	1,023	1,358	1,634	5,649	7,284	190	2,079	7,152
All other divisions.....	288	278	79,842	181,475	76,069	135,945	162,666	278,841	687,630	966,471	17,631	(D)	(D)
North Carolina.....	181	175	46,706	102,987	44,702	79,265	92,557	151,736	303,824	455,560	8,612	(D)	(D)
South Carolina.....	23	23	4,852	11,293	4,575	8,504	9,879	17,624	52,665	70,289	855	(D)	(D)
Georgia.....	44	43	16,845	39,107	15,924	28,873	35,111	61,645	185,826	247,471	6,161	28,895	(D)
Tennessee.....	5	5	2,152	5,540	2,026	4,038	4,938	9,107	22,728	31,835	989	2,371	8,369
Alabama.....	24	24	7,057	16,075	6,786	11,398	14,614	23,733	62,276	86,009	841	(D)	(D)
Cotton broad-woven fabrics (Census Code 2233), total...	582	476	296,193	783,011	280,546	537,531	702,649	1,127,507	,662,114	2,789,621	55,200	330,196	1,448,972
New England.....	67	52	29,562	86,358	27,619	52,879	76,371	119,914	135,345	255,260	2,993	(D)	(D)
Maine.....	7	7	8,963	26,343	8,366	16,322	23,568	40,343	42,752	83,095	1,063	10,418	(D)
New Hampshire.....	5	4	2,118	7,451	1,904	4,004	6,228	12,793	20,351	33,144	5,299	23,301	(D)
Massachusetts.....	30	23	13,697	38,061	12,946	24,038	34,060	49,398	50,686	100,085	1,323	24,818	102,590
Connecticut.....	9	8	1,912	6,208	1,619	3,216	4,767	7,569	8,152	15,722	77	3,877	(D)
Middle Atlantic.....	107	43	4,387	15,828	3,858	7,349	12,076	24,619	38,300	62,919	618	9,595	46,371
New York.....	29	2	284	963	259	542	807	2,570	3,054	5,625	62	3,202	12,938
New Jersey.....	42	20	2,276	8,022	1,996	3,679	6,067	12,839	20,517	33,356	253	3,191	16,421
Pennsylvania.....	36	21	1,826	6,843	1,602	3,127	5,200	9,210	14,728	23,938	302	3,202	17,012
All other divisions.....	408	381	262,243	680,824	249,067	477,302	614,200	982,973	1,488,467	2,471,441	51,587	(D)	(D)
North Carolina.....	102	98	69,280	178,417	65,837	122,089	161,735	266,671	389,884	656,555	11,328	68,481	315,090
South Carolina.....	126	121	82,432	224,448	78,760	158,365	205,904	331,161	507,358	838,519	20,601	83,466	368,559
Georgia.....	77	74	52,140	127,754	49,494	93,505	114,917	172,823	290,683	463,508	8,207	50,393	205,640
Synthetic broad-woven fabrics (Census Code 2234), total.	478	347	89,994	272,872	83,120	166,984	234,476	422,765	719,864	1,142,629	12,995	97,648	488,048
New England.....	97	79	19,218	61,583	17,296	33,091	50,611	94,232	142,788	237,020	1,948	26,835	127,607
Maine.....	6	6	3,636	12,490	3,131	6,135	9,682	21,714	25,423	47,138	92	(D)	(D)
New Hampshire.....	9	9	2,019	6,108	1,921	3,644	5,494	9,766	14,681	24,447	(D)	2,829	13,651
Massachusetts.....	37	32	7,554	23,046	6,918	13,118	19,405	31,490	59,693	91,183	1,092	11,185	51,774
Rhode Island.....	31	22	2,383	7,825	2,167	4,308	6,399	16,897	22,600	39,497	(D)	6,018	31,247
Connecticut.....	14	10	3,625	12,114	3,158	5,885	9,629	14,363	20,390	34,754	495	(D)	(D)
Middle Atlantic.....	249	144	15,681	50,833	14,406	28,612	42,803	76,239	118,254	194,494	2,031	23,782	113,088
New York.....	41	12	1,264	4,821	1,079	2,020	3,210	9,370	10,594	19,965	163	2,943	17,712
New Jersey.....	101	42	2,581	8,902	2,354	4,505	7,354	14,942	18,270	33,213	388	4,427	24,304
Pennsylvania.....	107	90	11,836	37,108	10,972	22,086	32,238	51,926	89,390	141,316	1,280	16,412	71,072
North Central.....	7	3	785	2,321	708	1,269	1,965	3,565	3,782	7,347	68	...	...
South and West.....	125	121	54,309	158,134	50,708	104,010	139,096	248,728	455,038	703,767	8,946	47,031	247,353
North Carolina.....	53	53	22,146	64,325	20,552	42,216	56,231	97,514	175,220	272,735	4,429	16,121	80,235
South Carolina.....	32	31	20,358	59,594	19,221	39,206	53,156	98,166	160,800	258,966	2,204	20,499	110,553
Georgia.....	13	13	4,109	11,900	3,786	7,978	10,246	19,632	37,063	56,696	738	3,324	13,322

See Footnotes at end of table.



## COTTON, RAYON AND RELATED MANUFACTURES

22B-7

Table 2.—GENERAL STATISTICS BY REGIONS AND STATES: 1954 AND 1947—continued  
(For explanation of column captions see Introduction)

Industry, region, and State <sup>1</sup>	1954										1947		
	Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
	Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
Narrow fabric mills (S.I.C. 2241), total.....	513	252	25,676	79,063	22,862	44,962	61,456	121,547	128,615	250,162	4,802	28,080	110,571
New England.....	158	93	10,430	32,038	9,366	18,482	25,482	47,344	55,956	103,301	1,805	10,928	40,755
New Hampshire.....	22	12	864	2,628	774	1,512	2,125	4,471	3,193	7,665	71	(D)	(D)
Massachusetts.....	49	29	3,437	10,967	3,099	5,920	8,584	15,482	20,059	35,542	594	3,233	11,856
Connecticut.....	22	16	1,656	5,938	1,352	2,687	4,247	8,827	8,787	17,614	342	2,106	8,223
Middle Atlantic.....	256	93	8,942	30,363	7,811	15,399	22,549	44,771	40,636	85,408	1,682	12,008	49,411
New York.....	107	23	2,537	9,940	2,091	4,393	6,758	14,058	14,613	28,671	446	2,351	11,888
New Jersey.....	74	24	1,916	6,653	1,707	3,192	5,320	10,681	6,409	17,091	426	2,643	13,095
Pennsylvania.....	75	46	4,488	13,769	4,012	7,813	10,471	20,032	19,613	39,645	809	7,014	24,428
North Central.....	15	9	724	2,291	637	1,242	1,575	5,358	4,784	10,143	63	1,486	5,158
Ohio.....	4	4	248	842	211	436	529	1,645	1,194	2,839	39	198	(D)
South Atlantic.....	66	46	4,499	11,415	4,182	8,078	9,840	19,449	23,008	42,458	1,053	2,899	12,826
Virginia.....	6	6	960	2,355	907	1,802	2,078	4,787	5,827	10,614	215	503	2,286
North Carolina.....	27	20	1,808	4,848	1,666	3,256	4,156	8,002	7,804	15,806	591	1,110	4,572
South Carolina.....	13	7	692	1,897	637	1,235	1,536	2,961	4,599	7,561	132	489	2,641
Georgia.....	11	5	363	892	341	653	786	1,737	1,631	3,369	27	215	(D)
East South Central.....	12	10	1,025	2,820	817	1,674	1,899	4,367	4,045	8,412	163	726	2,279
Alabama.....	6	6	596	1,710	533	1,106	1,290	2,702	2,705	5,408	153	497	(D)
Pacific.....	6	1	55	135	47	85	109	254	184	439	33	(D)	(D)
Finishing textiles, except wool (S.I.C. 2261), total.....	725	403	79,308	292,324	68,485	142,839	228,262	464,165	533,979	998,144	21,900	77,985	359,270
New England.....	136	99	21,398	82,726	18,144	37,774	64,129	130,424	127,400	257,824	4,902	22,748	93,621
Massachusetts.....	57	39	8,153	31,973	6,915	14,526	24,633	51,278	65,585	116,864	1,707	9,498	37,854
Rhode Island.....	44	33	8,878	33,974	7,458	15,351	26,245	49,796	37,134	86,931	1,830	9,019	38,989
Connecticut.....	28	22	3,428	13,897	2,989	6,266	10,983	24,720	17,936	42,657	1,236	3,839	(D)
Middle Atlantic.....	434	204	23,487	99,962	20,300	43,630	77,945	151,151	114,586	265,738	4,143	29,269	152,328
New York.....	212	72	6,075	24,579	5,320	11,127	19,357	41,463	23,366	64,830	866	8,020	40,372
New Jersey.....	171	102	13,462	59,783	11,649	25,642	46,739	89,111	61,058	150,170	2,422	15,448	86,583
Pennsylvania.....	51	30	3,949	15,599	3,330	6,860	11,848	20,576	30,160	50,737	854	5,801	25,373
East North Central.....	25	10	1,084	4,800	855	1,796	3,126	6,101	6,079	12,181	356	(D)	(D)
Illinois.....	15	7	483	1,973	401	834	1,293	2,593	3,038	5,632	104	367	1,848
West North Central.....	7	3	271	675	220	324	477	874	430	1,304	75	(D)	(D)
Missouri.....	7	3	271	675	220	324	477	874	430	1,304	75	245	(D)
South.....	103	80	32,546	102,048	28,531	58,418	81,090	171,448	283,774	455,222	12,208	24,098	105,245
Virginia.....	9	9	3,430	11,041	2,777	5,585	7,929	14,517	12,732	27,249	495	1,494	6,267
North Carolina.....	39	29	7,578	22,658	6,560	12,993	17,147	36,884	55,703	92,587	1,714	5,006	22,694
South Carolina.....	23	19	13,740	44,364	12,323	25,745	37,237	79,556	153,152	232,709	7,765	9,445	41,424
Georgia.....	10	9	2,327	5,941	2,193	4,423	5,375	9,503	11,867	21,371	1,308	1,766	7,642
Tennessee.....	6	5	1,810	5,477	1,625	3,251	4,521	13,496	29,509	43,105	248	2,204	11,696
Alabama.....	3	3	1,884	5,424	1,740	3,689	4,484	7,897	11,014	18,911	284	(D)	(D)
West.....	20	7	519	2,112	433	895	1,493	4,165	1,707	5,873	214	548	2,581

Note: Detailed figures may not add to the totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>General statistics for some producing States are not shown separately in the table (see INTRODUCTION "Confidentiality of Data for Individual Companies"). Such States are shown below with the number of establishments in each State for 1954 and, in parentheses, the number of employees or the employment-size range for that State for 1954:

S.I.C. 2222, Yarn Throwing Mills: New England—Massachusetts, 3 (250-499); Rhode Island, 6 (100-249); Connecticut, 1 (20-99); All Other Divisions—Illinois, 1 (100-249); Maryland, 1 (20-99); South Carolina, 3 (250-499); Georgia, 2 (20-99); Tennessee, 4 (500-999); Mississippi, 1 (20-99); California, 1 (20-99).

S.I.C. 2223, Thread Mills: New England—New Hampshire, 2 (20-99); Massachusetts, 14 (500-999); Rhode Island, 6 (250-499); Middle Atlantic—New Jersey, 3 (1-19); Pennsylvania, 5 (100-249); East North Central—Ohio, 2 (1-19); Illinois, 2 (1-19); South—Maryland, 1 (1-19); South Carolina, 1 (500-999); Georgia, 8 (2,500-4,999); Tennessee, 2 (1,000-2,499).

S.I.C. 2224, Yarn Mills, Cotton System: New England—Maine, 1 (250-499); New Hampshire, 2 (100-249); Connecticut, 4 (100-249); Middle Atlantic—New Jersey, 12 (100-249); Pennsylvania, 9 (500-999); All Other Divisions—Ohio, 2 (1,000-2,499); Illinois, 1 (100-249); Virginia, 2 (250-499); Kentucky, 1 (250-499); Arkansas, 1 (100-249); Texas, 2 (1-19); California, 2 (100-249).

S.I.C. 2233, Cotton Broad-Woven Fabrics: New England—Vermont, 1 (250-499); Rhode Island, 15 (2,500-4,999); All Other Divisions—Ohio, 3 (1-19); Indiana, 1 (100-249); Illinois, 9 (100-249); Michigan, 2 (1-19); Wisconsin, 2 (100-249); Maryland, 2 (500-999); Virginia, 9 (10,000 or more); Florida, 3 (20-99); Kentucky, 1 (250-499); Tennessee, 5 (2,500-4,999); Alabama, 37 (10,000 or more); Mississippi, 3 (1,435); Arkansas, 5 (1,151); Louisiana, 1 (1,000-2,499); Oklahoma, 1 (1,000-2,499); Texas, 18 (5,000-9,999); Utah, 1 (20-99).

S.I.C. 2234, Synthetic Broad-Woven Fabrics: North Central—Ohio, 2 (20-99); Indiana, 1 (20-99); Illinois, 2 (100-249); Iowa, 1 (1-19); Missouri, 1 (500-999); South and West—Maryland, 1 (500-999); Virginia, 18 (5,000-9,999); Florida, 1 (1-19); Tennessee, 3 (1,000-2,499); Alabama, 1 (1,000-2,499); Texas, 1 (20-99); California, 2 (20-99).

S.I.C. 2241, Narrow Fabric Mills: New England—Maine, 2 (1-19); Rhode Island, 63 (2,500-4,999); North Central—Illinois, 6 (250-499); Wisconsin, 3 (20-99); Missouri, 2 (100-249); South Atlantic—Maryland, 6 (250-499); West Virginia, 1 (100-249); Florida, 2 (100-249); East South Central—Kentucky, 3 (100-249); Tennessee, 3 (100-249); Pacific—Oregon, 1 (1-19); California, 5 (20-99).

S.I.C. 2261, Finishing Textiles, Except Wool: New England—New Hampshire, 6 (500-999); Vermont, 1 (1-19); East North Central—Ohio, 7 (250-499); Michigan, 1 (100-249); Wisconsin, 2 (1-19); South—Delaware, 1 (1,000-2,499); Maryland, 3 (100-249); West Virginia, 1 (250-499); Florida, 2 (1-19); Kentucky, 3 (100-249); Arkansas, 1 (1-19); Texas, 2 (1-19); West—Wyoming, 1 (1-19); Colorado, 1 (1-19); Washington, 1 (1-19); California, 17 (250-499).

Table 3.--DETAILED STATISTICS FOR THE UNITED STATES: 1954  
(For explanation of line captions see Introduction)

Item	Yarn throwing mills (S.I.C. 2222) all estab- lishments	Thread mills (S.I.C. 2223)		Yarn mills, cotton system (Census code 2224) all estab- lishments	Cotton broad- woven fabrics (Census code 2233) all estab- lishments
		All estab- lishments	Establish- ments with 90% or more primary prod- uct special- ization		
Primary product specialization ratio <sup>1</sup> .....	93	88	xxx	95	94
Coverage ratio <sup>2</sup> .....	79	94	xxx	92	84
Number of establishments, total.....	137	97	81	357	582
With 1-19 employees.....	38	44	40	44	106
With 20-99 employees.....	63	27	24	73	68
With 100 employees and over.....	36	26	17	240	408
All employees:					
Number (average for year).....	11,840	13,908	9,412	85,275	296,193
Payroll.....\$1,000..	32,046	38,281	25,642	197,292	783,011
Production workers:					
Number (average for year).....	10,849	12,221	8,418	80,944	280,546
Man-hours.....1,000..	21,327	22,807	15,700	144,959	537,531
Wages.....\$1,000..	26,790	29,267	20,140	175,558	702,649
Value added by manufacture.....do....	53,964	62,694	42,649	298,833	1,127,507
Cost of materials, etc.....do....	45,263	121,052	79,290	731,793	1,662,114
Value of shipments.....do....	99,227	183,746	121,940	1,030,627	2,789,621
Value added by resales.....do....	355	638	622	99	2,404
Cost of products bought and resold.....do....	2,866	1,168	1,150	2,853	46,286
Sales of products bought and resold.....do....	3,021	1,807	1,773	2,952	48,691
Total inventories, beginning of year.....do....	8,218	46,011	24,915	150,086	570,648
Total inventories, end of year.....do....	9,004	43,030	21,358	143,308	587,061
Capital expenditures, new.....do....	3,211	8,543	7,457	18,501	55,200
Number of employees for selected months:					
March.....	12,144	14,249	9,664	86,113	300,504
May.....	11,742	13,783	9,358	84,586	295,566
August.....	11,463	13,619	9,250	84,030	293,636
November.....	12,012	13,980	9,367	86,371	295,067
Cost of materials, fuel, electricity and contract work total.....\$1,000..	45,263	121,052	79,290	731,793	1,662,114
Materials, parts, containers, and supplies consumed.....do....	38,889	115,877	75,738	713,302	1,564,999
Fuels consumed, total.....do....	488	984	792	1,975	13,549
Bituminous coal and anthracite:					
Quantity.....1,000 short tons..	29	49	(NA)	161	1,294
Value.....\$1,000..	268	481	(NA)	1,338	9,068
Coke:					
Quantity.....1,000 short tons..	1	...	...	...	( <sup>3</sup> )
Value.....\$1,000..	16	...	...	...	( <sup>4</sup> )
Fuel oil:					
Quantity.....1,000 barrels..	39	185	(NA)	- 85	633
Value.....\$1,000..	143	470	(NA)	297	1,873
Gas:					
Quantity.....million cubic feet..	147	30	(NA)	1,089	7,001
Value.....\$1,000..	55	17	(NA)	322	2,328
Other fuels:					
Value.....do....	6	16	(NA)	18	277
Electric energy:					
Purchased:					
Quantity.....million kwh..	235	169	109	1,550	4,821
Cost.....\$1,000..	2,339	1,739	1,143	14,165	40,626
Generated.....million kwh..	1	19	18	33	664
Sold:					
Quantity.....do....	...	...	...	7	153
Value.....\$1,000..	...	...	...	126	1,426
Cost of contract work.....do....	3,547	2,452	1,617	2,351	42,940
Manufacturers' inventories:					
Beginning of year, total.....do....	8,218	46,011	24,915	150,086	570,648
Finished products.....do....	756	18,373	5,568	48,870	243,958
Work-in-process.....do....	2,521	15,226	10,253	31,112	112,815
Materials, supplies, fuel, etc.....do....	4,940	12,411	9,093	70,103	213,874
End of year, total.....do....	9,004	43,030	21,358	143,308	587,061
Finished products.....do....	870	18,304	4,465	37,839	250,252
Work-in-process.....do....	2,486	14,369	9,513	31,674	111,975
Materials, supplies, fuel, etc.....do....	5,646	10,357	7,378	73,794	224,833
Expenditures for plant and equipment, total.....do....	3,799	8,959	7,843	20,573	65,044
Capital expenditures, new.....do....	3,211	8,543	7,457	18,501	55,200
New structures and additions to plant.....do....	516	3,610	3,545	3,473	9,397
New machinery and equipment.....do....	2,694	4,933	3,911	15,028	45,802
Expenditures for used plant and equipment.....do....	588	( <sup>5</sup> )	( <sup>5</sup> )	2,072	9,844
Horsepower rating of power equipment at end of 1954:					
Horsepower of prime movers and electric motors driven by pur- chased energy, total.....1,000 hp..	64	66	48	583	1,536
Engines, etc., driving electric generators.....do....	1	14	13	23	277
Engines, etc., not driving electric generators.....do....	2	1	( <sup>6</sup> )	1	21
Electric motors driven by purchased energy.....do....	61	51	35	559	1,238
Electric motors driven by energy generated at the establishment.....do....	1	8	8	10	133

See footnotes at end of table.

## COTTON, RAYON AND RELATED MANUFACTURES

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Table 3.—DETAILED STATISTICS FOR THE UNITED STATES: 1954--Continued

Item	Synthetic broad-woven fabrics (Census Code 2234)		Narrow fabric mills (S.I.C. 2241) all estab- lishments	Finishing tex- tiles, except wool (S.I.C. 2261) all estab- lishments
	All estab- lishments	Establish- ments with 90% or more primary prod- uct special- ization		
Primary product specialization ratio <sup>1</sup> .....	87	xxx	96	86
Coverage ratio <sup>2</sup> .....	90	xxx	94	41
Number of establishments, total.....	478	298	513	725
With 1-19 employees.....	131	77	261	322
With 20-99 employees.....	149	98	180	215
With 100 employees and over.....	198	123	72	188
All employees:				
Number (average for year).....	89,994	46,693	25,676	79,308
Payroll.....\$1,000..	272,872	140,555	79,063	292,324
Production workers:				
Number (average for year).....	83,120	43,425	22,862	68,485
Man-hours.....1,000..	166,984	87,116	44,962	142,839
Wages.....\$1,000..	234,476	121,835	61,456	228,262
Value added by manufacture.....	422,765	220,871	121,547	464,165
Cost of materials, etc.....do...	719,864	404,663	128,615	533,979
Value of shipments.....do...	1,142,629	625,535	250,162	998,144
Value added by resales.....do...	2,070	1,923	2,870	545
Cost of products bought and resold.....do...	9,240	6,402	10,359	4,589
Sales of products bought and resold.....do...	11,310	8,326	13,229	5,135
Total inventories, beginning of year.....do...	239,532	122,158	45,326	97,936
Total inventories, end of year.....do...	218,370	116,557	46,418	92,431
Capital expenditures, new.....do...	12,995	7,058	4,802	21,900
Number of employees for selected months:				
March.....	91,882	48,126	25,595	79,840
May.....	89,830	46,330	25,659	77,974
August.....	89,863	46,134	25,317	78,210
November.....	88,403	46,180	26,134	81,208
Cost of materials, fuel, electricity and contract work, total.....\$1,000..	719,864	404,663	128,615	533,979
Materials, parts, containers, and supplies consumed.....do...	680,844	382,752	121,266	489,447
Fuels consumed, total.....do...	4,602	1,865	1,545	24,608
Bituminous coal and anthracite:				
Quantity.....1,000 short tons..	220	(NA)	22	1,617
Value.....\$1,000..	1,975	(NA)	219	11,265
Coke:				
Quantity.....1,000 short tons..	(3)	(3)	1	(3)
Value.....\$1,000..	(4)	(4)	11	48
Fuel oil:				
Quantity.....1,000 barrels..	715	(NA)	211	4,210
Value.....\$1,000..	2,036	(NA)	706	10,503
Gas:				
Quantity.....million cubic feet..	689	(NA)	934	5,690
Value.....\$1,000..	499	(NA)	472	1,967
Other fuels:				
Value.....do...	89	(NA)	137	825
Electric energy:				
Purchased:				
Quantity.....million kwh..	1,336	698	99	514
Cost.....\$1,000..	12,842	6,868	1,708	7,249
Generated.....million kwh..	102	74	3	329
Sold:				
Quantity.....do...	12	10	1	45
Value.....\$1,000..	140	87	6	312
Cost of contract work.....do...	21,576	13,178	4,096	12,675
Manufacturers' inventories:				
Beginning of year, total.....do...	239,532	122,188	45,326	97,936
Finished products.....do...	89,032	48,424	17,375	25,870
Work-in-process.....do...	74,524	35,083	12,371	26,381
Materials, supplies, fuel, etc.....do...	75,975	38,680	15,579	45,683
End of year, total.....do...	218,370	116,557	46,418	92,431
Finished products.....do...	76,207	40,665	17,374	24,543
Work-in-process.....do...	71,078	36,661	11,968	25,363
Materials, supplies, fuel, etc.....do...	71,084	39,230	17,075	42,524
Expenditures for plant and equipment, total.....do...	17,391	10,221	5,315	23,797
Capital expenditures, new.....do...	12,995	7,058	4,802	21,900
New structures and additions to plant.....do...	2,626	1,766	1,176	4,495
New machinery and equipment.....do...	10,369	5,292	3,626	17,405
Expenditures for used plant and equipment.....do...	4,396	3,163	513	1,897
Horsepower rating of power equipment at end of 1954:				
Horsepower of prime movers and electric motors driven by purchased energy, total.....1,000 hp..	458	264	56	391
Engines, etc., driving electric generators.....do...	56	41	3	132
Engines, etc., not driving electric generators.....do...	9	(6)	(6)	18
Electric motors driven by purchased energy.....do...	393	223	53	241
Electric motors driven by energy generated at the establishment.....do...	30	22	2	124

Note: Detailed figures may not add to the totals because of independent rounding. xxx Not applicable. NA Not available. <sup>1</sup>The specialization ratio compares the given industry's shipments of its primary products to its total shipments of all products. (The primary products are listed in Tables 5B and 6A.) Columns containing totals for establishments with 90% or more primary product specialization are shown only for those industries having a primary product specialization of less than 92%. The column for establishments with 90% or more primary product specialization is not shown for Industry 2261 because of the high proportion of commission receipts which did not enter into the computation of the specialization ratio for individual establishments. <sup>2</sup>The coverage ratio measures the extent to which the total shipments of products primary to the given industry are shipped by establishments classified in that industry. <sup>3</sup>Less than \$5 thousand. <sup>4</sup>Less than 500 hp.



## MANUFACTURES--INDUSTRY STATISTICS

Table 4.—SELECTED STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR THE UNITED STATES: 1954

(Value figures in thousands of dollars. For explanation of line captions see Introduction. Data which cannot be shown without disclosing information for individual companies have been combined with figures for other size classes. A (D) appears in the column where the figure has been omitted and the combined figure is underlined and shown in the size-class to the left)

Ind. code	Industry and item	Total, all establishments	Establishments with an average of—									
			1-4 employees	5-9 employees	10-19 employees	20-49 employees	50-99 employees	100-249 employees	250-499 employees	500-999 employees	1,000-2,499 employees	2,500 employees and over
2222	Yarn throwing mills:											
	Number of establishments..	137	19	7	12	24	39	28	6	2	...	...
	Number of employees.....	11,840	47	48	161	866	2,822	4,544	3,350	(D)	...	...
	Value added by manufacture	53,964	186	344	513	3,593	10,301	22,399	16,625	(D)	...	...
2223	Thread mills:											
	Number of establishments..	97	18	15	11	17	10	9	9	7	2	...
	Number of employees.....	13,908	50	100	138	599	750	1,344	3,507	7,417	(D)	...
	Value added by manufacture	62,694	340	500	531	3,244	4,216	5,822	23,275	24,764	(D)	...
2224	Yarn mills, cotton system:											
	Number of establishments..	357	21	9	14	29	44	134	62	37	7	...
	Number of employees.....	85,275	44	72	209	971	3,351	22,904	21,195	24,272	12,255	...
	Value added by manufacture	298,833	213	432	885	3,662	10,271	72,613	72,413	91,545	46,797	...
2233	Cotton broad-woven fabrics:											
	Number of establishments..	582	43	28	35	48	20	71	136	115	81	5
	Number of employees.....	296,193	113	206	528	1,605	1,363	11,918	48,813	79,248	118,887	33,509
	Value added by manufacture	1,127,507	570	1,231	2,426	7,159	7,192	49,607	171,344	309,595	449,769	128,610
2234	Synthetic broad-woven fabrics:											
	Number of establishments..	478	47	44	40	78	71	87	61	37	13	...
	Number of employees.....	89,994	120	316	577	2,677	5,024	14,243	21,754	26,381	18,899	...
	Value added by manufacture	422,765	623	1,635	3,041	11,989	23,169	70,184	106,698	114,195	91,227	...
2241	Narrow fabric mills:											
	Number of establishments..	513	99	76	86	110	70	55	14	3	...	...
	Number of employees.....	25,676	270	375	1,228	3,611	4,970	8,734	4,571	1,714	...	...
	Value added by manufacture	121,547	1,429	2,870	5,705	16,653	21,910	47,925	18,604	6,449	...	...
2261	Finishing textiles, exc. wool:											
	Number of establishments..	725	134	84	104	125	90	103	48	29	7	1
	Number of employees.....	79,308	336	619	1,515	3,911	6,683	16,269	16,729	20,412	12,829	(D)
	Value added by manufacture	464,165	3,572	3,790	9,233	24,840	42,821	97,183	96,238	118,441	68,044	(D)

Note: Detailed figures may not equal totals because of independent rounding.

Table 5A.—INDUSTRY-PRODUCT ANALYSIS—SUMMARY OF INDUSTRY AND PRIMARY PRODUCT SHIPMENTS, SPECIALIZATION RATIOS AND COVERAGE RATIOS FOR THE UNITED STATES: 1954 AND 1947

Industry code	Industry and census year	Value of shipments					Value of primary products shipped			
		Total	Primary products	Secondary products	Miscellaneous receipts	Primary product specialization ratio <sup>1</sup> Col. B Col. B+C (Percent)	Total (made in all industries)	Made in this industry	Made in other industries	Coverage ratio <sup>2</sup> Col. G Col. F (Percent)
(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(E)	(\$1,000)	(\$1,000)	(\$1,000)	(I)		
(A)	(B)	(C)	(D)		(F)	(G)	(H)			
2222	Yarn throwing mills.....1954..	99,227	40,926	3,260	55,041	93	51,693	40,926	10,767	79
	1947..	64,173	(NA)	(NA)	45,647	(NA)	(NA)	(NA)	(NA)	(NA)
2223	Thread mills.....1954..	183,746	157,729	21,447	4,570	88	166,979	157,729	9,250	94
	1947..	154,269	124,486	21,761	8,022	85	(NA)	(NA)	(NA)	(NA)
2224	Yarn mills, cotton system....1954..	1,030,627	949,564	48,522	32,541	95	1,030,183	949,564	80,619	92
	1947..	1,162,607	(NA)	(NA)	(NA)	(NA)	1,010,889	(NA)	(NA)	(NA)
2233	Cotton broad-woven fabrics...1954..	2,789,621	2,548,689	165,245	75,687	94	3,036,414	2,548,689	487,725	84
	1947..	2,912,651	(NA)	(NA)	(NA)	(NA)	(NA)	2,613,097	(NA)	(NA)
2234	Synthetic broad-woven fabrics.....1954..	1,142,629	954,780	141,478	46,371	87	1,061,538	954,780	106,758	90
	1947..	1,002,923	808,759	141,038	53,126	85	(NA)	808,759	(NA)	(NA)
2241	Narrow fabric mill.....1954..	250,162	234,760	8,868	6,534	96	249,859	234,760	15,099	94
	1947..	215,194	200,162	9,616	5,416	95	204,819	200,162	4,657	98
2261	Finishing textiles, except wool.....1954..	998,144	342,592	53,670	601,882	386	843,923	342,592	501,331	41
	1947..	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)

NA Not available.

<sup>1</sup>The specialization ratio compares the given industry's shipments of its primary products to its total shipments of all products. (The primary products are listed in Tables 5B and 6A.)

<sup>2</sup>The coverage ratio measures the extent to which the total shipments of products primary to the given industry are shipped by establishments classified in that industry.

<sup>3</sup>If miscellaneous receipts are included in the numerator and denominator of this calculation, specialization would be 95 percent.

## COTTON, RAYON AND RELATED MANUFACTURES

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Table 5B.—INDUSTRY-PRODUCT ANALYSIS—SHIPMENTS BY PRODUCT CLASS AND INDUSTRY, FOR THE UNITED STATES: 1954

(In thousands of dollars. The first column shows the total value of shipments of the specified industry divided among: (a) products classified in the industry (primary products), (b) products classified in other industries (secondary products) and (c) miscellaneous receipts. The value of shipments of the primary products of the specified industry reported by establishments not classified in that industry is shown under the caption "Other Industries." Industries accounting for significant amounts of the primary products listed are shown in separate columns provided that the figures for individual companies are not thereby disclosed. The last column shows the total value of shipments of the primary products of the industry by all manufacturing industries)

Prod. class code	Yarn throwing mill industry	Yarn throwing mills (S.I.C. 2222)		Other industries		All industries	
22220	Total shipments of the industry.....	99,227		xxx		xxx	
	Thrown yarns.....	40,926		10,767		51,693	
	Secondary products.....	3,260		xxx		xxx	
	Miscellaneous receipts.....	55,041		xxx		xxx	
	Contract and commission work:						
	Throwing filament yarns.....	54,072		xxx		xxx	
	Other contract and commission work.....	856		xxx		xxx	
	Scrap and salable refuse.....	113		xxx		xxx	
Prod. class code	Thread mill industry	Thread mills (S.I.C. 2223)		Other industries		All industries	
22231 22232	Total shipments of the industry.....	183,746		xxx		xxx	
	Primary products.....	157,729		9,250		166,979	
	Thread for use in the home.....	52,344		994		53,338	
	Thread for industrial or manufacturers use.....	105,385		8,256		113,641	
	Secondary products.....	21,447		xxx		xxx	
22242	Yarns spun on cotton system.....	8,659		xxx		xxx	
	Other secondary products.....	12,788		xxx		xxx	
	Miscellaneous receipts.....	4,570		xxx		xxx	
	Contract and commission work.....	1,187		xxx		xxx	
	Mill waste and other scrap.....	3,383		xxx		xxx	
Prod. class code	Yarn mills, cotton system, industry	Yarn mills, cotton system (Census Code 2224)	Thread mills (S.I.C. 2223)	Cotton broad-woven fabrics (Census Code 2233)	Synthetic broad-woven fabrics (Census Code 2234)	Other industries	All industries
22241 22242 22243 22250	Total shipments of the industry.....	1,030,627	xxx	xxx	xxx	xxx	xxx
	Primary products.....	949,564	8,659	36,418	8,610	26,932	1,030,183
	Tire cord and tire fabrics, cotton.....	30,802	...	11,276	202	...	42,280
	Yarns spun on cotton system.....	619,935	8,659	25,046	8,366	15,781	677,787
	Tire cord and tire fabrics; man-made fibers.....	284,632	...	(4)	(4)	7,935	292,705
	Yarns spun on silk system.....	14,195	...	...	...	3,216	17,411
	Secondary products.....	48,522	xxx	xxx	xxx	xxx	xxx
22332 22338 22613	Cotton sheeting and allied fabrics.....	6,785	xxx	xxx	xxx	xxx	xxx
	Other woven cotton fabrics and specialties.....	9,202	xxx	xxx	xxx	xxx	xxx
	Finished yarns and raw stock, except wool.....	9,937	xxx	xxx	xxx	xxx	xxx
	Other secondary products.....	22,598	xxx	xxx	xxx	xxx	xxx
	Miscellaneous receipts.....	32,541	xxx	xxx	xxx	xxx	xxx
	Contract and commission work.....	8,948	xxx	xxx	xxx	xxx	xxx
	Mill waste and other scrap.....	323,593	xxx	xxx	xxx	xxx	xxx
Prod. class code	Narrow fabric mill industry	Narrow fabric mills (S.I.C. 2241)		Rubber industries, n.e.c. (S.I.C. 3099)	Other industries	All industries	
22411 22412 22413 22414 22415	Total shipments of the industry.....	250,162		xxx	xxx	xxx	
	Primary products.....	234,760		7,970	7,129	249,859	
	Elastic woven narrow fabrics.....	39,073		...	115	39,188	
	Elastic braided narrow fabrics.....	17,899		...	795	18,694	
	Woven narrow fabrics, except elastic.....	127,882		...	5,061	132,943	
	Braided narrow fabrics, except elastic.....	36,588		...	1,028	37,616	
	Covered rubber thread.....	13,318		7,970	130	21,418	
	Secondary products.....	8,868		xxx	xxx	xxx	
	Miscellaneous receipts.....	6,534		xxx	xxx	xxx	
	Contract and commission work.....	6,290		xxx	xxx	xxx	
	Other.....	244		xxx	xxx	xxx	

See footnotes at end of table.

## MANUFACTURES—INDUSTRY STATISTICS

Table 5B.—INDUSTRY-PRODUCT ANALYSIS—SHIPMENTS BY PRODUCT CLASS AND INDUSTRY, FOR THE UNITED STATES: 1954—Continued

Prod. class code	Cotton broad-woven fabric industry	Cotton broad-woven fabrics (Census Code 2223)	Yarn mills, cotton system (Census Code 2224)	Synthetic broad-woven fabrics (Census Code 2234)	Other industries	All industries
	Total shipments of the industry.....	2,789,621	xxx	xxx	xxx	xxx
	Primary products.....	2,548,689	25,815	89,448	372,462	3,036,414
22331	Cotton duck and allied fabrics.....	113,324	(D)	(D)	(D)	128,134
22332	Cotton sheeting and allied fabrics.....	538,541	6,785	205	...	545,551
22333	Cotton print cloth yarn fabrics.....	515,646	...	...	...	515,646
22334	Cotton colored yarn fabrics.....	220,071	(D)	(D)	(D)	229,047
22335	Cotton towels, toweling, and dishcloth fabric.....	35,405	(D)	...	(D)	36,030
22336	Mapped cotton fabrics, blankets, and blanketing.....	60,912	...	(D)	(D)	72,342
22337	Fine cotton goods.....	276,595	...	42,271	...	318,866
22338	Other woven cotton fabrics and specialties.....	211,483	9,202	22,530	4,208	247,423
22611	Finished cotton broad-woven fabrics.....	374,662	...	11,026	6195,696	581,384
23922	Sheets and pillow cases.....	109,952	...	...	7104,322	214,274
23923	Towels and washcloths, woven.....	92,078	...	...	855,639	147,717
	Secondary products.....	165,245	xxx	xxx	xxx	xxx
22232	Thread for industrial or manufacturers use.....	3,896	xxx	xxx	xxx	xxx
22241	Tire cord and tire fabrics, cotton.....	11,276	xxx	xxx	xxx	xxx
22242	Yarns spun on cotton system.....	25,046	xxx	xxx	xxx	xxx
22341	Rayon and acetate pile upholstery and tie fabrics....	7,963	xxx	xxx	xxx	xxx
22342	100% filament rayon and/or acetate fabrics.....	4,643	xxx	xxx	xxx	xxx
22343	100% spun rayon and/or acetate fabrics.....	5,473	xxx	xxx	xxx	xxx
22345	Rayon and/or acetate mixtures with other fibers.....	9,919	xxx	xxx	xxx	xxx
22346	Nylon and chiefly nylon fabrics.....	3,214	xxx	xxx	xxx	xxx
22347	Silk and man-made fiber fabrics, n.e.c.....	3,631	xxx	xxx	xxx	xxx
22612	Finished synthetic and silk broad-woven fabrics.....	20,064	xxx	xxx	xxx	xxx
23921	Bedspreads and bed sets.....	19,230	xxx	xxx	xxx	xxx
23924	Other house furnishings.....	6,601	xxx	xxx	xxx	xxx
23930	Textile bags, except laundry and wardrobe bags.....	14,196	xxx	xxx	xxx	xxx
23990	Fabricated textile products, n.e.c.....	6,888	xxx	xxx	xxx	xxx
	Other secondary products.....	23,205	xxx	xxx	xxx	xxx
	Miscellaneous receipts.....	75,687	xxx	xxx	xxx	xxx
	Contract and commission work:					
	Weaving cotton broad-woven fabrics.....	4,649	xxx	xxx	xxx	xxx
	Finishing cotton broad-woven fabrics.....	10,382	xxx	xxx	xxx	xxx
	Other contract and commission work <sup>1</sup> .....	4,524	xxx	xxx	xxx	xxx
	Mill waste and other scrap .....	355,273	xxx	xxx	xxx	xxx
	Other.....	259	xxx	xxx	xxx	xxx

Prod. class code	Synthetic broad-woven fabric industry	Synthetic broad-woven fabrics (Census Code 2234)	Cotton broad-woven fabrics (Census Code 2233)	Other industries	All industries
	Total shipments of the industry.....	1,142,629	xxx	xxx	xxx
	Primary products.....	954,780	54,994	51,764	1,061,538
22341	Rayon and acetate pile upholstery, and tie fabrics....	59,513	7,963	5,000	72,476
22342	100% filament rayon and/or acetate fabrics.....	237,339	4,643	1,596	243,578
22343	100% spun rayon and/or acetate fabrics.....	145,440	5,473	2,973	153,886
22344	Combination filament and spun rayon or acetate fabrics.....	40,011	(4)	(4)	40,179
22345	Rayon and/or acetate mixtures with other fibers.....	111,118	9,919	1,873	122,910
22346	Nylon and chiefly nylon fabrics.....	143,712	3,214	3,555	150,481
22347	Silk and man-made fiber fabrics, n.e.c.....	151,075	3,631	5,592	160,298
22612	Finished synthetic and silk broad-woven fabrics.....	66,572	20,064	931,094	117,730
	Secondary products.....	141,478	xxx	xxx	xxx
22131	Woolen and worsted apparel fabrics.....	10,728	xxx	xxx	xxx
22132	Woolen and worsted nonapparel fabrics.....	7,494	xxx	xxx	xxx
22242	Yarns spun on cotton system.....	8,366	xxx	xxx	xxx
22337	Fine cotton goods.....	42,271	xxx	xxx	xxx
22338	Other woven cotton fabrics and specialties.....	22,530	xxx	xxx	xxx
22611	Finished cotton broad-woven fabrics.....	11,026	xxx	xxx	xxx
	Other secondary products.....	1039,063	xxx	xxx	xxx
	Miscellaneous receipts.....	46,371	xxx	xxx	xxx
	Contract and commission work:				
	Throwing filament yarns.....	4,884	xxx	xxx	xxx
	Weaving rayon and acetate fabrics.....	20,513	xxx	xxx	xxx
	Weaving other man-made fiber and silk fabrics.....	9,763	xxx	xxx	xxx
	Finishing man-made fiber and silk fabrics.....	2,279	xxx	xxx	xxx
	Other contract and commission work <sup>1</sup> .....	4,172	xxx	xxx	xxx
	Mill waste and other scrap .....	34,760	xxx	xxx	xxx

See footnotes at end of table.



## COTTON, RAYON AND RELATED MANUFACTURES

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Table 5B.—INDUSTRY-PRODUCT ANALYSIS—SHIPMENTS BY PRODUCT CLASS AND INDUSTRY, FOR THE UNITED STATES: 1954—Continued

Prod. class code	Finishing textiles, except wool industry	Finishing textiles, except wool (S.I.C. 2261)	Cotton broad-woven fabrics (Census Code 2233)	Synthetic broad-woven fabrics (Census Code 2234)	Other industries	All industries
	Total shipments of the industry.....	998,144	xxx	xxx	xxx	xxx
	Primary products.....	342,592	398,139	77,598	25,594	843,923
22611	Finished cotton broad-woven fabrics.....	193,707	374,662	11,026	1,989	581,384
22612	Finished synthetic and silk broad-woven fabrics.....	30,225	20,064	66,572	869	117,730
22613	Finished yarns and raw stock, except wool.....	103,702	2,362	...	117,996	124,060
22614	Other finished fabrics, except wool.....	14,958	1,051	...	4,740	20,749
	Secondary products.....	1253,670	xxx	xxx	xxx	xxx
	Miscellaneous receipts.....	601,882	xxx	xxx	xxx	xxx
	Contract and commission work:					
	Finishing wool yarns, tops, and raw stock.....	3,736	xxx	xxx	xxx	xxx
	Bleaching, dyeing, or printing and finishing cotton broad-woven fabrics.....	311,445	xxx	xxx	xxx	xxx
	Bleaching, dyeing, or printing and finishing silk and man-made fiber broad-woven fabrics.....	200,144	xxx	xxx	xxx	xxx
	Other finishing of fabrics.....	13,347	xxx	xxx	xxx	xxx
	Dyeing or other finishing of raw stock and yarn...	30,362	xxx	xxx	xxx	xxx
	Other contract and commission work <sup>1</sup> .....	35,210	xxx	xxx	xxx	xxx
	Scrap and salable refuse.....	7,403	xxx	xxx	xxx	xxx
	Repair work.....	215	xxx	xxx	xxx	xxx

xxx Not applicable.

<sup>1</sup> Withheld to avoid disclosing figures for individual companies.<sup>2</sup> Includes receipts for contract and commission work not specified by kind.<sup>3</sup> Of this figure, 84 percent consists of the following product classes: 22120, Yarns spun on woolen systems, except carpet; 22613, Finished yarns and raw stock, except wool; and 23960, Trimmings, stamped art goods, and art needlework.<sup>4</sup> Establishments classified in Industries 2223, Thread mills; 2224, Yarn Mills, Cotton System; 2233, Cotton Broad-Woven Fabrics; and 2234, Synthetic Broad-Woven Fabrics, were requested to report detailed data regarding sales of mill waste. These mills reported the following information:

Item	Total shipments and interplant transfers	
	Quantity (1,000 lbs.)	Value (\$1,000)
Mill waste and other scrap, total.....	xxx	87,609
Cotton waste:		
Card strips.....	115,033	25,339
Comber noils.....	76,490	19,002
Other soft wastes (including sweeps, motes, and files).....	231,368	13,410
Hard wastes (thread and yarn wastes).....	65,337	6,867
Rayon and other man-made fiber wastes:		
Thread or yarn waste.....	15,089	1,595
New rags and clips.....	1,939	408
Other mill waste.....	94,761	5,934
Other salable scrap including mill waste not specified by kind.....	xxx	15,054

<sup>4</sup> Less than \$100 thousand.<sup>5</sup> Of this figure, 57 percent consists of the following product classes: 22331, Cotton duck and allied fabrics; 22343, 100% spun rayon and/or acetate fabrics; 22413, Woven narrow fabrics, except elastic.<sup>6</sup> Includes \$193,707 thousand shipped by Industry 2261, Finishing Textiles, Except Wool.<sup>7</sup> Includes \$73,550 thousand shipped by Industry 2392, Housefurnishings, N.E.C.<sup>8</sup> Includes \$51,138 thousand shipped by Industry 2392, Housefurnishings, N.E.C.<sup>9</sup> Includes \$30,225 thousand shipped by Industry 2261, Finishing Textiles, Except Wool.<sup>10</sup> Of this figure, 92 percent consists of the following product classes: 22120, Yarns spun on woolen system, except carpet; 22220, Thrown yarns; 22331, Cotton duck and allied fabrics; 22334, Cotton colored yarn fabrics; and 22561, Warp knit fabrics.<sup>11</sup> Includes \$9,937 thousand shipped by Industry 2224, Yarn mills, Cotton System.<sup>12</sup> Of this figure, 89 percent consists of the following product classes: 22250, Yarns spun on silk system; 22992, Textile goods, n.e.c.; 23922, Sheets and pillow cases; 23990, Fabricated textile products, n.e.c.; and 38422, Surgical and orthopedic appliances and supplies.

Table 6A.—QUANTITY AND VALUE OF PRODUCTS SHIPPED BY ALL ESTABLISHMENTS, FOR THE UNITED STATES: 1954 AND 1947

Product code	Product	1954				1947			
		Production (1,000 lb.)		Total shipments including interplant transfers		Production (1,000 lb.)		Shipments of sales yarn <sup>1</sup>	
		Total for all purposes <sup>2</sup>	Produced on commission	Quantity (1,000 lb.)	Value (\$1,000)	Total for all purposes	Produced on commission	Quantity (1,000 lb.)	Value (\$1,000)
2222---	Thrown filament yarns, total.....	166,160	66,926	323,977	351,693	144,111	57,975	38,503	314,257
	Weaving yarns:								
2222011	Rayon and/or acetate.....	48,185	7,027	6,498	6,368	104,762	30,180	2,239	2,651
2222015	Nylon.....	47,981	14,696	5,867	15,177	13,459	5,773	2,102	4,741
2222019	Other weaving yarns.....	15,782	4,559	463	1,179				
	Machine-knitting yarns:								
2222051	Rayon and/or acetate.....	4,024	2,124	869	1,228	5,900	4,031	2,353	3,073
2222055	Nylon.....	41,416	34,880	5,704	20,090	17,026	16,265	347	999
2222059	Other knitting yarns.....	2,877	869	2,049	3,950	2,964	1,726	1,462	2,793
2222098	Other thrown yarns.....	5,895	2,771	2,527	3,201	...	...	...	...
2224 & 2225---	Cotton and silk system yarns, tire cord and fabric, total.....	xxx	xxx	xxx	1,030,183	xxx	xxx	xxx	1,010,889
22242	Yarns spun on cotton system.....	44,104,955	xxx	3956,360	3677,787	44,013,576	xxx	3821,110	3644,088
	Carded cotton yarns:								
2224211	Weaving yarns (other than carpet)..	2,833,946	xxx	258,605	160,335	2,677,576	xxx	271,744	182,760
2224212	Carpet yarns (except tufting).....	120,000	xxx	113,845	59,240	45,261	xxx	34,782	19,647
2224213	Tufting yarns.....		xxx			(NA)	xxx	(NA)	(NA)
2224214	Machine-knitting yarns.....	4135,341	xxx	131,490	78,894	4198,832	xxx	165,875	114,952
2224215	Tire cord yarns.....	11,582	xxx			301,349	xxx	1,501	990
2224216	Cordage, rope, and twine yarns.....	422,657	xxx	21,366	11,851	12,435	xxx	5,114	2,782
2224217	Sewing-thread yarns.....	11,841	xxx	6,255	4,114	3,145	xxx	2,504	1,623
2224218	Yarns for crochet, darning, embroidery, hand knitting and hand-work cotton.....	48,523	xxx	44,826	24,443	104,901	xxx	78,213	42,560
2224219	All other carded cotton yarns.....								
	Combed cotton yarns:								
2224231	Weaving yarns.....	321,879	xxx	56,353	49,590	225,837	xxx	58,467	64,467
2224233	Machine-knitting yarns.....	4176,742	xxx	175,188	147,158	4141,947	xxx	127,313	132,110
2224235	Sewing-thread yarns.....	54,291	xxx	28,729	33,666	45,814	xxx	21,733	26,234
2224237	Yarns for crochet, darning, embroidery, hand knitting and hand-work cotton.....	3,310	xxx	2,972	4,019	7,605	xxx	2,188	1,909
2224239	All other combed yarns.....					16,715	xxx	13,823	11,327
	All other yarns spun on cotton system:								
2224251	100% spun rayon and/or acetate yarns	249,776	xxx	60,703	38,848	160,516	xxx	19,906	17,316
2224253	Blends, chiefly cotton.....	19,601	xxx	12,009	8,618	15,813	xxx	3,978	3,937
2224255	Blends, chiefly rayon and/or acetate	54,294	xxx	20,763	15,551	5,375	xxx	860	618
2224257	Blends, chiefly wool.....	4,114	xxx	2,563	4,970	9,003	xxx	2,935	4,241
2224259	All other cotton-system yarns.....	37,058	xxx	20,693	36,490	41,452	xxx	10,174	16,615
22250	Yarns spun on silk system, and rewound yarns, total.....	xxx	xxx	xxx	317,411	xxx	xxx	xxx	3,379
2225011	Spun silk.....	(D)	xxx						
2225051	Spun rayon and/or acetate.....	8,362	xxx			2,368	xxx	31,584	33,379
2225071	Spun nylon.....	(D)	xxx						
2225078	Rewound yarns.....	xxx	xxx	xxx		xxx	xxx	xxx	(NA)
Total shipments including interplant transfers									
22241	Cotton tire cord and tire fabric.....	59,890	xxx	64,068	42,280	350,685	xxx	(NA)	234,015
2224111	Cotton tire cord and tire cord fabric.	12,716	xxx	13,043	9,068	285,076	xxx	(NA)	234,015
2224151	Cotton chafar fabric and all other cotton tire fabrics.....	47,174	xxx	51,025	33,212	65,609	xxx	(NA)	129,407
22243	Man-made fiber tire cord and tire fabrics	358,448	xxx	367,515	292,705	214,576	xxx	(NA)	129,407
2224311	Rayon tire cord, not woven.....	61,591	xxx	61,649	44,101	25,638	xxx	(NA)	129,407
2224331	Rayon tire cord fabric, woven.....	267,793	xxx	275,968	198,965	188,938	xxx	(NA)	129,407
2224351	Nylon tire cord and tire cord fabric..	29,064	xxx	29,898	49,639	(6)	xxx	(NA)	129,407
2224398	Other man-made fiber tire fabrics, including chafar.....	( )	xxx	( )	( )	...	xxx	...	...
2223---	Thread, total (except flax thread, 2229111).	xxx	xxx	xxx	166,979	xxx	xxx	xxx	(NA)
22231	Thread for use in the home.....	xxx	xxx	xxx	53,338	xxx	xxx	xxx	(NA)
2223111	Cotton sewing thread.....	6,575	xxx	6,049	19,104	6,295	xxx	6,639	23,553
2223151	Cotton crochet, darning, embroidery, and hand knitting thread, and hand-work cottons.....	11,925	xxx	11,357	19,637	11,753	xxx	11,686	21,049
2223159	Other fibers, except flax.....	145	xxx	139	906	138	xxx	131	652
2223198	Other thread for use in the home, primarily gray thread transferred to other plants for finishing.....	14,319	xxx	14,037	13,691	(NA)	xxx	(NA)	(NA)
22232	Thread for industrial or manufacturers use	xxx	xxx	xxx	113,641	xxx	xxx	xxx	(NA)
	Sewing and other thread except industrial weight goods and braided thread:								
2223211	Cotton.....	46,153	xxx	45,626	74,271	41,367	xxx	41,478	76,816
2223215	Man-made fibers.....	2,774	xxx	2,744	14,128				
2223219	Other fibers, except flax.....	241	xxx	280	83,716	1,750	xxx	1,708	8,696
	Industrial weight goods and braided thread:								
2223251	Cotton.....	3,152	xxx	3,003	5,413				
2223259	Other fibers, except flax.....	(8)	xxx	(8)		6,729	xxx	7,211	8,916
2223298	Other thread for industrial or manufacturers use, primarily gray thread transferred to other plants for finishing.....	14,955	xxx	14,988	16,113	(NA)	(NA)	(NA)	(NA)

See footnotes at end of table.

## COTTON, RAYON AND RELATED MANUFACTURES

22B-15

Table 6A.—QUANTITY AND VALUE OF PRODUCTS SHIPPED BY ALL ESTABLISHMENTS, FOR THE UNITED STATES: 1954 AND 1947—Continued

Product code	Product	1954				1947		
		Total production (quantity)		Total shipments including inter-plant transfers		Total production (quantity)		
		1,000 lin. yd.	1,000 lb.	1,000 lin. yd.	Value (\$1,000)	1,000 lin. yd.	1,000 lb.	1,000 sq. yd.
2233 22611 23922 23923	Cotton broad-woven fabrics (gray goods), finished cotton broad woven fabrics, sheets and pillowcases, towels and wash-clothes.....	xxx	xxx	xxx	3,036,414	xxx	xxx	xxx
2233---	Cotton broad-woven fabrics (gray goods), total.....	9,890,948	9,133,079	9,854,676	2,093,039	9,824,058	9,297,803	9,102,221,170
22331	Cotton duck and allied fabrics (including combed duck).....	9,239,819	9,195,212	9,225,034	128,134	9,206,415	9,188,333	9,235,720
	Counce duck:							
	Army duck (including shoe duck, wide army duck and plied warp and filling awning stripes):							
2233111	28-1/2" 8oz. basic weight-all widths.....	20,997	12,482	20,288	10,211	24,589	14,721	22,907
2233113	28-1/2" 10 and 12 oz. basic weight-all widths.....	27,772	18,727	25,932	12,469	3,239	2,499	3,132
2233119	All other army duck constructions including shelter tent....	19,446	12,636	14,821	8,500	14,726	9,908	16,994
	Flat duck (including enameling duck and single yarn awning stripes:							
	Single filling:							
2233121	29" 8 oz. basic weight-all widths.....	26,949	15,150	24,252	8,307	33,055	17,739	28,835
2233122	29" 10 and 12 oz. basic weight-all widths.....	8,335	6,344	8,101	3,224	6,061	4,768	5,785
2233124	All other single filling flat duck constructions.....	57,435	38,867	53,895	21,284	41,080	28,345	49,418
	Double filling:							
2233127	38" 8 oz. basic weight-all widths.....	18,402	8,948	16,793	5,128	18,030	9,909	19,896
2233128	All other double filling flat duck construction.....	21,891	14,740	23,130	10,143	14,618	9,725	16,848
	Numbered duck (including narrow, sail, wide, and naught):							
2233144	# 5 to # 8 inclusive wider than 24".....	6,978	11,681	7,153	7,347	6,381	9,619	8,481
2233145	# 9 to # 12 inclusive wider than 24".....	6,475	7,695	6,434	5,385	7,068	8,363	9,565
2233147	Other numbered duck.....	3,548	6,285	3,281	4,118	3,442	6,428	3,871
2233149	Paper felts.....	375	4,924	379	5,684	405	3,967	1,285
2233151	Hose and belting ducks.....	16,755	31,554	16,437	21,058	27,836	55,803	42,172
2233161	Filter cloth (including filter twills and special constructions for filtration purposes.....	4,461	5,179	4,138	3,660	5,885	6,539	6,531
2233171	Laundry netting.....	xxx	9,1536	9,1579	1,616	xxx	9,6760	xxx
22332	Cotton sheeting and allied coarse and medium yarn fabrics.....	2,493,582	1,004,321	2,015,883	545,551	3,038,975	1,100,005	3,612,383
	Osnaburgs (single yarn-clean, tinged and part waste-all widths):							
2233211	40"-40x28-2.05 and 38 or 40x24 to 26-2.11 yard.....	8,518	3,684	7,385	1,885	57,790	27,797	64,203
2233212	40"-32x28-3.55 and 26 or 32x24 to 26-3.65 yard.....	15,680	4,325	13,894	2,318	59,071	16,421	65,628
2233216	All other osnaburg constructions:							
2233217	Under 42" wide.....	81,132	30,243	64,886	13,266	134,832	38,392	99,025
	42" and wider.....	23,241	14,040	18,488	8,364	16,628	9,516	25,270
	Sheetings:							
	Soft filled sheeting for napping:							
2233221	Under 42" wide.....	242,964	73,179	196,565	37,979	73,322	21,699	81,947
2233223	42" and wider—single yarn.....	27,828	8,969	13,601	3,116	30,883	12,981	37,177
2233225	42" and wider—plied yarn.....	15,831	9,999	13,972	8,009	8,388	6,692	15,309
	Class A (average yarn numbers up to 15's inclusive):							
2233231	40"-48x48 and 48x44—2.85 yard.....	32,570	11,533	31,665	6,656	89,075	31,265	98,962
2233232	36"-48x48 and 48x44—2.85 yard.....	18,232	6,391	16,709	3,408	70,158	24,625	70,158
	All other class "A" constructions:							
2233235	Under 42" wide.....	72,107	25,903	68,547	15,794	83,030	30,318	88,692
2233237	42" and wider.....	33,995	18,451	32,047	12,263	46,662	24,648	63,296
	Class B (average yarn numbers, 16's to 21's inclusive):							
2233241	40"-48x44 and 48x40—3.25 yard.....	23,671	7,331	17,853	3,339	73,727	22,708	81,911
2233242	40"-48x44 and 48x40—3.75 yard.....	96,729	25,728	78,161	12,860	287,622	73,796	319,548
2233243	40"-48x40—4.25 yard.....	39,940	9,391	30,643	4,818	63,821	14,997	70,904
2233244	37"-48x48 and 48x44—4.00 yard.....	46,094	11,539	44,366	7,143	92,048	23,012	94,625
2233245	31"-48x48 and 48x44—5.00 yard.....	24,164	4,837	22,342	3,046	32,378	6,476	27,877
	All other class "B" constructions:							
2233247	Under 42" wide.....	83,816	23,278	58,496	10,150	113,985	32,065	120,636
2233248	42" and wider.....	13,192	5,863	10,368	3,399	24,350	8,590	35,875

See footnotes at end of table.



Table 6A.—QUANTITY AND VALUE OF PRODUCTS SHIPPED BY ALL ESTABLISHMENTS, FOR THE UNITED STATES: 1954 AND 1947—Continued

Product code	Product	1954				1947		
		Total production (quantity)		Total shipments including inter-plant transfers		Total production (quantity)		
		1,000 lin. yd.	1,000 lb.	1,000 lin. yd.	Value (\$1,000)	1,000 lin. yd.	1,000 lb.	1,000 sq. yd.
	Cotton broad-woven fabrics (gray goods)—Con. Sheetings—Continued							
	Class C (average yarn numbers above 21's):							
2233251	40"—64x68 and 64x64—3.15 yard.	13,083	4,107	10,279	2,414	22,952	7,276	25,500
2233252	40"—60x56/60x52 and 56x60/56x56—3.60 yard.....	45,608	13,083	36,270	7,060	54,319	15,101	60,348
2233253	40"—56x48—4.30 yard.....	38,097	8,684	35,754	5,567	33,700	7,852	37,441
2233255	36"—60x56/60x52 and 56x60/56x56—4.00 yard.....	21,748	5,794	19,815	3,544	40,428	10,107	40,428
2233256	36"—48x44/48x40 and 44x44/44x40—5.50 yard.....	4,050	730	3,805	479	36,257	6,599	36,257
2233257	36"—44x40 and 40x40—6.05 to 6.15 yard.....	8,881	1,374	8,625	1,003	27,218	4,464	27,218
	All other class "C" constructions:							
2233258	Under 42" wide.....	133,116	29,712	116,196	18,511	110,597	32,907	115,753
2233259	42" and wider.....	79,459	21,064	69,387	12,819	129,485	29,049	182,034
2233261	Carded poplins.....	38,549	18,381	29,880	9,279	37,446	14,308	40,729
2233262	Three leaf herringbone twills (except jeans).....	(10)	(10)	(10)	(10)	(10)	(10)	(10)
	Drills:							
2233263	30" high or low count.....	13,360	5,872	13,612	3,466	55,710	22,280	46,407
	All other drills under 42" wide:							
2233265	High count, above 120.....	77,699	36,446	68,181	21,317	195,015	82,800	198,427
2233267	Low count, 120 and below.....	83,202	31,733	74,861	18,543			
2233268	All drills 42" and wider.....	54,518	29,349	49,736	17,745			
2233271	Jeans (plain and herringbone).....	47,865	16,884	46,574	11,799	65,842	23,777	68,208
2233272	Three leaf pocketing twills and silesias (sheeting yarns).....	57,296	19,913	55,102	12,756	51,357	17,757	55,926
	Four leaf twill fabrics:							
2233273	8.2 ounce carded uniform twill, type IV.....	26,643	18,911	10,167	4,808	14,485	9,107	16,466
	All other four leaf twill (including four leaf herringbones):							
2233274	32" and narrower.....	5,641	3,166	5,453	1,780	22,630	10,400	18,832
2233275	Over 32" but less than 42".....	104,686	50,362	100,735	31,246	100,537	48,182	105,436
2233276	42" and wider.....	185,130	118,720	161,742	72,519	19,361	14,153	27,026
	Sateens (sheeting yarns):							
2233277	Under 42" wide.....	18,511	10,323	17,271	6,103	22,268	10,794	22,197
2233278	42" and wider.....	25,531	18,829	22,714	12,211	25,006	20,490	37,214
2233281	Gabardines (carded).....	11,093	6,007	7,956	3,144	9,575	5,335	10,851
2233282	Birdseye diaper cloth.....	70,538	15,270	59,611	9,209	82,905	18,312	60,335
	Bed sheetings (42" and wider): <sup>11</sup>							
	Muslin and carded percales:							
2233284	Sley of more than 64, including carded percales.....	82,836	52,502	45,128	21,174	156,341	97,210	304,978
2233285	64 sley.....	225,808	134,790	130,610	55,281	125,540	76,595	263,834
2233286	Sley of less than 64.....	46,913	20,721	41,969	14,490	55,996	30,346	132,589
2233287	Pillow and industrial tubing.....	13,723	5,570	13,868	4,435	11,200	4,248	14,180
2233298	All other sheeting yarn fabrics.....	1060,294	1011,340	1020,594	105,036	10137,356	1034,456	10146,565
22333	Cotton print cloth yarn fabrics.....	4,039,169	702,467	3,986,793	515,646	3,229,025	496,395	3,479,403
	Print cloth yarn fabrics (carded yarns approximately 28's to 42's):							
2233311	Window shade cloth.....	104,171	21,533	104,137	16,952	151,481	29,402	177,393
	Plain print cloths (total threads per square inch 180 to 100):							
2233321	39"—80x80—4.00 yard.....	731,262	182,148	720,676	137,296	300,501	75,125	325,442
2233322	39"—68x72—4.75 yard.....	99,576	21,008	98,783	15,633	136,238	28,746	147,545
2233324	38"—1/2"—64x60—5.35 yard.....	66,380	12,434	65,456	9,573	81,727	15,282	87,365
2233325	38"—1/2"—64x56—5.50 yard.....	42,402	7,867	40,751	5,661	110,260	20,067	117,868
2233326	38"—1/2"—60x48—6.25 yard.....	59,047	9,533	62,873	4,735	69,667	11,146	74,474
	All other constructions:							
2233327	Under 36".....	38,156	5,939	34,776	4,524	36,171	5,433	30,773
2233328	36" and wider.....	739,677	159,010	734,707	118,272	427,350	94,545	475,038
	Fancy print cloths:							
2233333	Gauze diaper cloth.....	43,677	12,200	85,167	19,747	26,325	7,490	29,635
2233335	All other fancy print cloth, including pajama checks.....	48,845	14,737			58,193	13,050	58,397
	Bandage cloth (total threads per square inch 99 to 72):							
2233341	All constructions.....	125,265	14,525	124,306	11,438	131,218	16,232	142,909
	Tobacco and cheesecloth (total thread per square inch 71 and under):							
2233351	All widths 20x12 construction...	402,333	19,011	1,277,512	51,211	428,521	18,816	440,941
2233353	All widths 17/18 sley x 12/14 pick	463,756	19,750			463,373	20,289	513,094
2233355	All other constructions.....	406,802	24,325			373,220	27,492	411,530

See footnotes at end of table.

## COTTON, RAYON AND RELATED MANUFACTURES

22B-17

Table 6A.—QUANTITY AND VALUE OF PRODUCTS SHIPPED BY ALL ESTABLISHMENTS, FOR THE UNITED STATES: 1954 AND 1947—Continued

Product code	Product	1954				1947		
		Total production (quantity)		Total shipments including inter-plant transfers		Total production (quantity)		
		1,000 lin. yd.	1,000 lb.	1,000 lin. yd.	Value (\$1,000)	1,000 lin. yd.	1,000 lb.	1,000 sq. yd.
	Cotton broad-woven fabrics (gray goods)—Continued.							
	Cotton print cloth yarn fabrics—Con.							
	Carded broadcloths—all widths:							
2233361	100x60.....	174,181	49,246	168,355	32,179	61,199	15,440	62,919
2233363	80x60.....	42,986	9,558	48,062	7,399	44,711	9,523	46,290
2233365	All other constructions (including slub yarns).....	346,247	91,785	323,136	61,407	139,622	37,780	145,851
2233371	Carded poplins (print cloth warp yarn, including slub yarns).....	31,606	9,272	33,903	6,703	120,004	34,153	125,659
2233381	Three leaf twills (print cloth yarns).....	29,590	7,054	30,325	5,819	46,706	10,541	40,031
2233398	All other print cloth yarn constructions.....	43,210	11,532	33,868	7,097	22,538	5,843	26,249
22334	Colored yarn fabrics.....	738,617	325,825	650,393	229,047	751,749	304,537	707,269
	Denims, clothing (basis 28" width):							
2233411	1.60 yard and 2.00 yard.....	88,634	200,742	373,432	135,978	55,226	31,512	49,081
2233413	2.20 yard.....	175,104				226,833	108,476	186,064
2233415	2.45 yard and 3.00 yard.....	60,150				27,915	11,059	25,021
2233417	All other clothing denims.....	80,081						
2233421	Cottonades, suiting coverts, pin stripes, pin checks, hickory stripes, etc.....	27,249	15,813	24,134	10,008	57,792	26,824	54,168
2233431	Whipcords, bedford cords, shirting coverts (twill and plain weave).....	11,089	4,886	9,996	4,075	42,757	18,264	45,406
	Chambrays and colored yarn shirtings (carded yarns):							
2233441	36"—3.90 yard.....	43,123	12,445	43,150	10,749	53,738	13,756	53,738
2233445	All other carded yarn chambrays and shirtings.....	38,044	10,012	37,024	10,299	87,065	21,511	83,655
2233451	Ginghams and seersuckers, (all weights, except combed and fine carded), stripes, checks, and plaids.....	69,528	17,598	44,468	16,455	57,912	13,633	57,967
	All other carded suiting woven with colored yarns:							
2233461	All cotton.....	58,357	23,465	48,571	16,767	8,866	4,775	10,310
2233463	Cotton and rayon and/or acetate and cotton and wool mixtures (51% or more cotton).....					20,173	7,943	23,438
	Bed tickings, woven, all constructions:							
2233471	Jacquard woven.....	6,640	4,392	4,604	3,372	8,856	5,535	12,365
2233475	Not jacquard woven.....	80,618	36,472	65,014	21,344	104,616	41,249	106,056
22335	Cotton towels, toweling, and dishcloth fabric.....	455,088	155,590	157,229	36,030	408,606	127,069	252,243
2233511	Turkish and terry-woven, (including washcloths and bathmat fabrics).....	253,993	113,506	49,930	16,670	243,380	91,820	168,275
2233521	Huck, damask and jacquard-woven, (other than terry).....	69,892	15,276	34,530	7,455	52,163	10,997	26,827
2233531	Dish towels, dishcloths, and other twill and plain woven towels (including all-cotton, part linen, and part rayon).....	131,203	26,808	72,769	11,905	113,063	24,252	57,141
22336	Napped cotton fabrics, blankets, and blanketing.....	233,143	102,213	150,595	72,342	509,682	206,547	597,884
	Blankets and blanketing:							
2233611	Crib (single width yards).....	20,507	7,970	19,069	11,419	15,915	8,431	17,866
	Other than crib:							
2233621	All cotton.....	27,348	17,868	25,674	14,355	36,779	28,980	72,692
	Chiefly cotton:							
2233623	25% up to 50% wool.....	1,690	2,061	1,596	2,190	7,289	9,197	14,921
2233625	Less than 25% wool.....	13,390	12,309	13,019	14,613	21,445	19,323	51,910
	Napped fabrics:							
2233641	Outing flannels.....	96,959	23,467	25,347	6,095	226,536	55,535	220,023
2233645	Work shirt flannels.....	6,790	2,445	5,612	2,334	43,833	16,056	45,398
2233651	Canton flannels.....	44,952	25,890	41,279	15,666	60,115	34,792	59,494
2233655	Interlining flannel.....	11,140	4,733	9,621	2,737	38,538	10,542	43,943
2233665	All other napped fabric (except blankets).....	10,367	5,470	9,378	2,933	59,232	23,691	71,637

See footnotes at end of table.

Table 2A.—QUANTITY AND VALUE OF PRODUCTS SHIPPED BY ALL ESTABLISHMENTS, FOR THE UNITED STATES: 1954 AND 1947—Continued

Product code	Product	1954				1947		
		Total production (quantity)		Total shipments including inter-plant transfers		Total production (quantity)		
		1,000 lin. yd.	1,000 lb.	1,000 lin. yd.	Value (\$1,000)	1,000 lin. yd.	1,000 lb.	1,000 sq. yd.
22337	Cotton broad-woven fabrics (gray goods)—con.							
	Fine cotton goods.....	1,244,336	355,183	999,008	318,866	1,312,582	298,138	1,470,379
	Fine cotton goods (combed, part combed, and fine carded):							
	Broadcloths (combed and part combed):							
2233711	37"—136x60.....	18,853	4,599	20,878	5,848	70,496	17,917	72,480
2233715	All other combed and part combed broadcloth.....	218,826	62,029	202,021	62,317	90,423	23,761	96,720
2233725	Dimities and fancy handkerchief fabrics, dobby and box.....	43,662	6,087	40,212	8,395	42,672	6,076	45,265
	Lawns and organdies:							
2233734	40"—38x30—6.90 yard.....	52,692	7,572	52,475	10,960	145,408	20,430	161,999
2233737	All other combed, part combed, and fine carded lawns.....	204,901	52,170	188,589	39,558			
	Marquisettes (all combed and part combed and fine carded):							
2233741	Plain .....	21,271	3,459	20,246	4,593	1273,406	127,999	1286,804
2233743	Dobby (beat up) and box loom....					12161,686	1221,381	12189,119
2233751	Oxfords—combed and fine carded (carded average yarn finer than 35's).....	46,843	15,884	42,089	17,514	46,170	13,533	49,954
2233752	Piques (combed and fine carded)....	11,875	4,308	11,993	4,362	20,195	6,101	22,215
2233754	Poplins (combed).....	21,250	7,812	21,959	8,097	38,542	14,237	40,140
2233755	Sateens (combed and part combed)...	38,760	15,031	34,796	18,866	28,702	10,416	32,858
2233756	Sateens, carded (average yarn finer than 35's).....	31,530	9,651	33,248	10,230	45,132	11,044	52,156
2233757	Sheetings, combed (including bedsheeting).....	97,486	50,230	66,154	33,293	19,413	10,683	37,722
2233758	Shirtings, jacquard, grey-dobby and colored yarn (combed, part combed, and fine carded not included above).....	115,322	29,531	42,865	14,467	121,614	28,698	132,209
2233761	Combed twills.....	30,679	18,837	24,268	15,055	34,880	16,988	41,847
2233773	Typewriter ribbon cloth.....	2,899	509	3,482	2,226	5,118	1,026	5,715
2233774	Voiles.....	59,247	7,496	55,015	10,110	39,013	4,470	42,636
2233777	Seersuckers.....	5,237	1,704	3,919	1,633	6,426	1,743	7,062
	Cotton mixtures, chiefly cotton:							
2233781	Carded cotton and rayon and/or acetate fabrics, except suiting...	4,320	1,268	4,232	1,143	68,648	19,712	75,856
2233785	Combed cotton and rayon and/or acetate fabrics, except suiting...	13,321	5,791	11,527	5,752	18,988	5,923	23,589
2233798	All other combed, part combed, and fine carded fabrics (average carded yarns finer than 35's).....	205,362	51,216	119,040	44,447	235,650	56,000	254,033
22338	Other woven cotton fabrics and specialties.....	447,194	292,268	363,741	247,423	367,024	252,019	466,889
	Bedspread fabrics—woven style—all cotton or cotton warp:							
2233811	Bedspreads, jacquard woven.....	14,676	17,512	6,421	6,505	16,846	21,785	40,391
2233815	Bedspreads, not jacquard woven....	10,515	7,881	7,249	5,203	14,872	10,418	33,498
	Drapery, upholstery, and tapestry fabrics (all cotton and chiefly cotton):							
2233821	Jacquard woven (including combed).. Other than jacquard including combed:	60,473	55,971	42,326	56,151	47,593	40,110	60,358
2233823	Colored yarn fabrics.....	24,465	18,944	14,455	16,554	31,831	24,644	40,516
2233825	Without colored yarn.....	115,769	70,099	111,769	54,937	48,026	34,611	63,163
	Corduroys:							
2233831	Women's wear weights.....	70,043	35,140	75,762	35,183	35,693	18,848	38,487
2233835	Men's wear weights 36" 12 to 13 ounce.....	10,555	7,411	14,565	8,728	9,283	7,220	9,719
2233837	All other men's wear corduroys....	13,682	8,299	12,443	7,658	20,717	14,626	21,925
	Velvets, velveteens, plushes and other pile fabrics (including combed):							
2233841	All cotton.....	7,095	4,952	3,537	4,210	8,922	4,906	10,004
2233842	Part cotton.....	19,823	20,726	13,909	20,252	15,428	19,980	22,937
2233844	Table damask, cloths, covers and napkins.....	13,566	6,004	6,052	3,093	29,907	12,670	35,123
2233845	Industrial wiping fabrics and cloths..	32,959	12,174	8,545	1,771	87,906	42,201	90,768
2233847	Elastic fabrics.....	4,326	2,513	2,076	2,323			
2233861	Cotton and wool mixtures, containing 25% up to 50% wool, reprocessed wool or reused wool not included above....	4,792	3,346	4,545	4,526			
2233898	All other carded cotton fabrics over 12" wide.....	44,455	21,296	40,087	20,329			

See footnotes at end of table.



## COTTON, RAYON AND RELATED MANUFACTURES

22B-19

Table 6A.—QUANTITY AND VALUE OF PRODUCTS SHIPPED BY ALL ESTABLISHMENTS, FOR THE UNITED STATES: 1954 AND 1947—Continued

Product code	Product	1954					1947						
		Total production (quantity)		Produced on com- mission	Total shipments including inter- plant transfers		Total production (quantity)		Produced on com- mission	Total shipments including inter- plant transfers			
		1,000 lin. yd.	1,000 lb.	1,000 lin. yd.	1,000 lin. yd.	Value (\$1,000)	1,000 lin. yd.	1,000 lb. <sup>13</sup>	1,000 lin. yd.	1,000 lin. yd.	Value (\$1,000)		
2234 22612	Rayon and related broad-woven fabrics (gray goods), finished man-made fiber and silk broad-woven fabrics.....	xxx	xxx	xxx	xxx	1,061,538	xxx	xxx	xxx	xxx	(NA)		
2234	Rayon and related broad-woven fabrics (gray goods), total.....	2,397,008	755,902	138,037	2,220,471	943,808	2,038,508	xxx	234,834	1,863,792	853,607		
22341	Rayon and/or acetate pile, drapery, upholstery, tapestry and tie fabrics (51% or more rayon and/or acetate).....	87,906	59,088	6,562	62,610	72,476	57,060	28,241	5,267	1450,965	1455,723		
2234111	Velvets, plushes, and other pile fabrics.....	24,318	20,326	(D)	10,728	18,688	14,587	10,368	519	50,965	55,723		
2234131	Upholstery, drapery, and tapestry fabrics.....	49,822	35,141	(D)	39,398	43,648	21,273	12,577	1,579				
2234151	Tie fabrics (shaft and jacquard).....	13,766	3,621	(D)	12,484	10,140	21,200	5,296	3,169				
22342	100% filament rayon and/or acetate fabric Flat fabrics (producers' twist in warp and filling):	848,310	197,133	65,207	803,814	243,578	1,236,805	xxx	189,766	1,095,481	446,193		
2234211	Bright viscose taffetas (including semi-dull).....	43,324	8,400	21,128	23,041	5,452	50,828	10,140	12,926	1,095,481	446,193		
2234212	Pigment viscose taffetas.....	21,984	4,368	911	21,675	4,974	103,706	20,026	16,198				
2234213	Acetate taffetas.....	259,858	58,921	19,237	243,505	73,135	76,516	16,688	21,997				
2234214	Cross-dyed taffetas.....	20,118	4,550	(D)	20,420	6,175	13,281	xxx	5,825				
2234216	Viscose twills and serges.....	104,028	25,057	6,461	107,542	25,433	169,325	41,518	20,730				
2234217	Acetate twills and serges.....	10,864	3,669	330	10,534	4,445							
2234218	Viscose satins.....	6,910	2,178	(D)	6,520	2,110	26,331	xxx	6,722				
2234219	Acetate satins.....	80,645	22,543	8,665	77,435	24,639	142,254	34,738	28,482				
2234231	All other flat fabrics.....	71,625	17,978	3,872	66,271	25,576	70,011	xxx	7,801				
2234251	Twisted yarn fabrics (more than producers' twist in warp and/or filling):												
	Creme satins (including voile filled).....	7,917	2,383	...	7,657	3,453	28,258	9,062	1,788	1,095,481	446,193		
2234252	Flat, faille, and canton crepe.....	20,877	4,705	(D)	21,451	7,938	111,964	26,334	18,275				
2234253	French crepes (voile twist filling)	23,906	6,337	...	26,816	10,212	119,856	26,440	11,535				
2234254	Plied yarn fabrics:												
	Plain weaves.....	41,330	15,190	(D)	39,628	16,658	118,393	34,109	12,613				
2234255	Fancy weaves.....	6,424	2,009	(D)	4,649	2,805	46,422	16,508	933				
2234256	Marquisettes (leno weaves).....	77,319	9,460	(D)	76,226	14,139	57,959	7,703	2,500				
2234257	Ninons and voiles (voile twist warp and filling).....	22,745	2,983	(D)	21,875	5,337	39,082	5,049	10,793				
2234258	Other sheers (georgettes, triple sheers, etc.).....	18,056	3,493	836	18,038	6,621	49,896	7,993	8,997				
2234259	All other twisted yarn fabrics.....	10,380	2,909	(D)	10,531	4,476	12,723	3,269	1,651				
22343	100% spun rayon and/or acetate fabrics...	445,485	198,200	(D)	447,243	153,886	332,451	111,776	3,484	311,400	118,234		
2234311	Viscose twills (including serges, gabardines, etc.).....	125,790	65,091	(D)	126,348	49,890	86,429	32,454	1,388	311,400	118,234		
2234312	Acetate twills (including serges, gabardines, etc.).....	12,366	6,005	...	14,042	5,056							
2234321	Ribbed and corded fabrics (poplins, bedford cord, etc.).....	17,661	7,682	(D)	14,903	5,031	(NA)	(NA)	(NA)				
2234331	Challis.....	56,576	17,422	...	57,408	13,770	59,974	16,415	881				
2234341	Linen type and flakes.....	144,653	60,857	...	153,015	46,114	25,672	8,328	6				
2234351	Plied yarn fabrics (suitings, shirtings, etc.).....	25,858	14,490	(D)	25,406	13,699	55,860	21,813	26				
2234398	Other 100% spun rayon and/or acetate fabrics.....	62,581	26,653	(D)	56,121	20,326	104,516	32,766	1,183				
22344	Combination filament and spun 100% rayon and/or acetate fabrics.....	118,876	43,869	(D)	112,118	40,179	178,982	57,165	16,392	195,474	79,038		
2234411	Ribbed and corded fabrics (poplins, failles, bengalines, etc.).....	44,401	16,911	...	44,733	14,124	67,350	24,475	12,324	195,474	79,038		
2234431	Shantungs (nub and slub).....	17,348	5,358	(D)	16,104	5,817	23,750	7,222	40				
2234498	Other filament and spun rayon and/or acetate fabrics.....	57,127	21,600	(D)	51,281	20,238	87,882	25,468	4,028				
22345	Mixtures and blends of rayon and/or acetate with other fibers (except pile, upholstery and tie fabrics).....	230,327	112,217	10,082	203,535	122,910	151,537	xxx	1510,465	15160,029	15108,224		
2234511	Rayon and/or acetate and wool:									15160,029	15108,224		
	Less than 25% wool.....	13,252	8,319	(D)	8,658	6,662	33,038	20,137	320				
2234531	25% up to 50% wool.....	7,919	5,439	...	7,778	15,400	(15)	(15)	(15)				
2234551	Filament rayon and/or acetate and cotton.....	47,187	15,222	1,316	46,110	18,724	55,279	23,875	4,918				
2234555	Rayon and/or acetate elastic.....	12,248	7,791	(D)	5,203	9,098	3,236	xxx	448				
2234561	Spun rayon and/or acetate and cotton..	38,895	14,393	(D)	41,474	17,129	48,360	20,519	321				
2234571	Rayon and other fibers.....	85,557	53,007	(D)	67,733	40,444	31,624	11,435	4,458				
2234575	Acetate and other fibers.....	25,269	8,046	714	26,579	15,453							

See footnotes at end of table.

## MANUFACTURES--INDUSTRY STATISTICS

Table 2A.—QUANTITY AND VALUE OF PRODUCTS SHIPPED BY ALL ESTABLISHMENTS, FOR THE UNITED STATES: 1954 AND 1947—Continued

Product code	Product	1954					1947				
		Total production (quantity)		Produced on commission	Total shipments including interplant transfers		Total production (quantity)		Produced on commission	Total shipments including interplant transfers	
		1,000 lin. yd.	1,000 lb.	1,000 lin. yd.	1,000 lin. yd.	Value (\$1,000)	1,000 lin. yd.	1,000 lb.	1,000 lin. yd.	1,000 lin. yd.	Value (\$1,000)
2234	Rayon and related broad-woven fabrics (gray goods)—Continued										
22346	Nylon and chiefly nylon fabrics.....	383,286	55,340	23,696	335,703	150,481	<sup>16</sup> 21,881	<sup>16</sup> 3,807	<sup>16</sup> 2,448	<sup>16</sup> 19,698	<sup>16</sup> 14,200
2234611	100% filament nylon:										
2234613	Bright and semi-dull taffetas.....	95,190	14,984	(D)	85,132	39,306					
2234615	Twills.....	4,556	651	(D)	4,128	2,050					
2234619	Marquisettes and other sheers.....	135,951	11,845	4,265	120,523	38,547					
2234619	Other 100% filament nylon fabrics..	94,862	14,079	(D)	83,298	39,069	21,881	3,807	2,448	19,698	14,200
2234631	100% spun nylon fabrics.....	29,741	4,954	(D)	23,659	15,503					
2234651	Nylon mixtures (chiefly nylon).....	22,986	8,827	870	18,968	16,006	(16)	(16)	(16)	(16)	(16)
22347	Silk and synthetic fabrics, except rayon, acetate and nylon.....	282,818	90,055	22,911	255,443	160,298	<sup>16</sup> 39,792	xxx	<sup>16</sup> 7,012	<sup>16</sup> 30,745	<sup>16</sup> 31,995
2234711	Silk fabrics:										
2234715	100% silk.....	27,977	5,775	5,152	23,041	31,246	9,986	xxx	5,787	4,303	10,259
2234715	Silk mixtures, chiefly silk	14,431	3,083	2,491	12,452	13,357	414	96	82	451	545
2234721	100% glass fabrics.....	51,586	15,713	1,659	47,772	23,415					
2234731	Saran monofilament fabrics.....	11,475	9,303	(D)	10,598	13,576					
2234741	Acrylic fabrics (chiefly acrylic fibers).....	13,081	3,991	(D)	11,803	10,134					
2234751	Paper fabrics excluding open mesh bagging.....	10,917	13,986	(D)	10,541	6,221					
2234792	All other woven fabrics including open mesh bagging: <sup>17 18</sup>						29,392	16,145	1,143	25,991	21,191
2234798	(Average value \$.50 or more per yard	59,994	15,128	...	60,437	44,911					
2234798	(Average value under \$.50 per yard..	79,766	17,815	...	78,799	17,438					
2234798	(Produced for own use or on commission.....	<sup>18</sup> 13,591	5,261	11,891	...	...					

Product code	Product	Unit of Quantity	Production for all purposes	1954		1947	
				Total shipments including interplant transfers		Production	
				Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
2241---	Narrow fabrics, total	.....	xxx	xxx	249,859	xxx	204,819
22411	Elastic woven narrow fabrics.....	.....	xxx	xxx	39,188	xxx	<sup>19</sup> 40,144
2241111	1-1/2 inches in width and under.....	Thousand lin. yd.....	376,090	373,272	23,609	308,571	(NA)
2241131	Over 1-1/2 inches up to 6 inches in width.....	do.....	82,589	81,909	8,245	<sup>20</sup> 30,223	(NA)
2241151	Over 6 inches in width	do.....	10,616	10,343	2,849	3,062	(NA)
2241100	Elastic woven narrow fabrics, not specified by kind.....	.....	xxx	xxx	4,485	xxx	4,040
22412	Elastic braided narrow fabrics.....	.....	xxx	xxx	18,694	xxx	(19)
2241211	( Elastic braided narrow fabrics, quantity reported.....	Thousand lin. yd.....	1,009,226	991,441	16,561		
2241211	( Elastic braided narrow fabrics, quantity not reported.....	do.....	xxx	xxx	2,133	576,886	(19)
22413	Woven narrow fabrics, except elastic.....	.....	xxx	xxx	132,943	xxx	<sup>21</sup> 156,324
2241311	Belting for wear on the person.....	Thousand lin. yd.....	45,343	45,366	1,144	<sup>21</sup> 84,774	
2241315	Strapping webs, excluding apparel webbing.....	do.....	105,904	106,126	7,411	(NA)	
2241321	Belting, transmission, and conveyor.....	Thousand lbs.	5,542	5,567	10,168	2,390	
2241331	Tapes:	Thousand lin. yd.....					
2241331	Tie tapes.....	do.....	344,815	338,578	1,057	<sup>21</sup> 1,000,106	
2241333	Zipper tapes.....	do.....	1,037,630	1,190,391	14,669	<sup>21</sup> 588,947	
2241335	Venetian blind tapes.....	do.....	95,171	92,047	4,907	<sup>21</sup> 162,621	
2241337	Electric insulating tapes.....	do.....	486,115	497,851	5,451	<sup>21</sup> 252,915	
2241339	(Other tapes, quantity reported.....	do.....	693,420	693,962	6,321	(NA)	
2241339	(Other tapes, quantity not reported.....	do.....	xxx	xxx	968		(NA)
2241341	Auto wind lace.....	Thousand lin. yd.....	74,146	74,046	10,292	<sup>21</sup> 20,221	
2241351	Spindle banding.....	do.....	17,348	16,898	630	<sup>21</sup> 38,307	
2241361	Woven labels.....	Thousand lab.	(NA)	(NA)	17,320	2,213,621	
2241371	( Bindings, quantity reported.....	Thousand lin. yd.....	652,187	650,188	6,916		
2241381	( Bindings, quantity not reported.....	do.....	xxx	xxx	1,218		
2241381	( Ribbons, quantity reported.....	do.....	1,821,203	1,724,671	19,605	<sup>21</sup> 1,869,201	
2241381	( Ribbons, quantity not reported.....	do.....	xxx	xxx	3,410		
2241398	Other woven narrow fabrics.....	.....	xxx	xxx	21,456		
2241300	Woven narrow fabrics, except elastic, not specified by kind.....	.....	xxx	xxx	...	xxx	7,147

See footnotes at end of table.

## COTTON, RAYON AND RELATED MANUFACTURES

22B-21

Table 6A.—QUANTITY AND VALUE OF PRODUCTS SHIPPED BY ALL ESTABLISHMENTS, FOR THE UNITED STATES: 1954 AND 1947—Continued

Product code	Product	Unit of Quantity	1954			1947		
			Production for all purposes	Total shipments including interplant transfers		Production		
				Quantity	Value (\$1,000)	Quantity	Value (\$1,000)	
22414	Narrow fabrics—Continued							
2241411	Braided narrow fabrics, except elastic..	Thousand lin. yds.....	xxx	xxx	37,616	...	(21)	
2241421	Belt for wear on the person.....	.....do.....	(NA)	(NA)	1,609	(NA)	(21)	
2241431	Tie tapes.....	.....do.....	(NA)	(NA)	1,123			
2241441	Electric insulating braid.....	.....do.....	(NA)	(NA)	166			
2241451	Spindle banding.....	Thousand lbs..	5,845	5,849	10,829			
2241461	Shoe and corset laces.....	Thousand lin. yds.....	320,948	318,065	3,221	211,177		
2241498	Rick rack braid.....	.....do.....	xxx	xxx	18,021			
2241400	All other braided narrow fabrics.....	.....do.....	xxx	xxx	2,647	xxx		
2241400	Braided narrow fabrics, except elastic, not specified by kind.....	.....do.....	xxx	xxx				
2241511	Covered rubber thread.....	Thousand lbs..	7,726	7,262	21,418	3,821	8,351	
Product code	Product	Unit of Quantity	1954				1947 production for all purposes <sup>23</sup>	
			Production (quantity) <sup>23</sup>		Total shipments including interplant transfers <sup>23</sup>			
			Total for all purposes	Produced or commission	Quantity	Value (\$1,000)	(Quantity)	
2261---	Finished textiles, except wool, total.....	.....do.....	xxx	xxx	xxx	843,923	xxx	
22611	Finished cotton broad woven fabrics (bleached, dyed or printed).....	Thousand lin. yds.....	7,407,348	4,429,247	2,070,033	581,384	6,944,456	
2261111	Bleached and white finished, cotton broad woven fabrics.....	.....do.....	3,179,589	1,178,978	1,272,606	230,137	3,616,001	
2261131	Plain dyed and finished, cotton broad woven fabrics.....	.....do.....	2,308,304	1,469,836	605,980	291,905	1,757,386	
2261151	Printed and finished, cotton broad woven fabrics.....	.....do.....	1,919,455	1,780,433	191,447	59,342	1,571,069	
22612	Finished man-made fiber and silk broad woven fabrics (bleached, dyed or printed).....	.....do.....	2,187,699	2,063,037	150,747	117,730	1,970,691	
	Bleached and white finished:							
2261211	Rayon and acetate.....	.....do.....	119,071	85,584	32,704	8,799	163,669	
2261215	All other broad woven fabrics of silk or man-made fibers.....	.....do.....	77,767	68,513	9,781	4,969	35,197	
	Plain dyed and finished:							
2261231	Rayon and acetate.....	.....do.....	1,316,506	1,279,523	55,833	56,001	1,008,367	
2261235	All other broad woven fabrics of silk or man-made fibers.....	.....do.....	356,804	319,444	43,672	35,867	410,567	
	Printed and finished:							
2261251	Rayon and acetate.....	.....do.....	236,970	231,914	3,964	1,550	268,377	
2261255	All other broad woven fabrics of silk or man-made fibers.....	.....do.....	80,581	78,059	4,793	10,544	84,514	
22613	Finished yarns and raw stock, except wool.....	Thousand lbs..	(24)	156,562	109,797	124,060	(NA)	
	Yarns, bleached:							
2261311	Carded cotton.....	.....do.....		13,821	2,509	1,813	38,455	
2261313	Combed cotton.....	.....do.....		3,675	8,776	10,153		
2261315	Other fibers.....	.....do.....		3,355	41	25		
	Yarns, dyed:							
2261321	Carded cotton.....	.....do.....		46,863	17,142	13,367	224,790	
2261323	Combed cotton.....	.....do.....		22,161	19,906	27,775		
2261325	Other fibers.....	.....do.....		27,194	12,056	13,849		
	Yarns, mercerized:							
2261331	Carded cotton.....	.....do.....		19,312	2,872	3,354	(NA)	
2261335	Combed cotton.....	.....do.....		7,984	27,687	46,844		
	Raw stock, bleached cotton.....	.....do.....			xxx	2,420	1,306	18,826
	Raw stock, dyed:							
2261351	Cotton.....	.....do.....		12,217	6,385	5,574	128,336	
2261355	Other fibers.....	.....do.....						
2261398	Yarns and raw stock, except wool, special finishes.....	.....do.....					(NA)	

See footnotes at end of table.



Table 6A.—QUANTITY AND VALUE OF PRODUCTS SHIPPED BY ALL ESTABLISHMENTS, FOR THE UNITED STATES: 1954 AND 1947—Continued

Product code	Product	Unit of Quantity	1954				1947 production for all purposes <sup>23</sup>
			Production (quantity) <sup>23</sup>		Total shipments including interplant transfers <sup>23</sup>		
			Total for all purposes	Produced on commission	Quantity	Value (\$1,000)	(Quantity)
22614	Finished textiles, except wool—Continued						
2261411	Other finished fabrics.....	.....	xxx	xxx	xxx	20,749	(NA)
	Broad woven fabrics including plastic film with special finishes (flame- proofed, mildew-proofed, mercerized, embossed, etc.) <sup>25</sup>	Thousand lin. yds.....	213,184	156,605	47,922	15,660	(NA)
2261498	Other fabrics, special finishes <sup>26</sup> ....	.....	xxx	xxx	xxx	5,089	...

Product code	Product	Unit of Quantity	1954 total shipments including interplant transfers		1947 total shipments including interplant transfers	
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
2392---	Housefurnishing, n.e.c. (Part)					
23922	Sheets and pillow cases.....	.....	xxx	214,274	xxx	( <sup>27</sup> )
2392211	{ Sheets, quantity reported.....	Thousand dozens	8,334	159,582	}	(NA) ( <sup>27</sup> )
2392251	{ Sheets, quantity not reported.....	.....	xxx	7,293		
2392200	{ Pillowcases.....	Thousand dozens	8,860	46,533		
	Sheets and pillowcases, not speci- fied by kind.....	.....	xxx	866	xxx	xxx
23923	Towels and wash cloths (not made in knitting mills).....	.....	xxx	147,717	xxx	117,159
	Towels:					
2392311	Terry-woven.....	Thousand dozens	19,553	92,504	(NA)	76,020
2392321	Huck.....	.....do.....	4,297	8,563	(NA)	7,450
2392331	Plain and twill-woven (including dish towels).....	.....do.....	9,856	18,568	(NA)	12,072
	{ Other towels, quantity reported	.....do.....	987	1,993	(NA)	}
	{ Other towels, quantity not reported.....	.....	xxx	1,173	(NA)	
2392351	Washcloths.....	Thousand dozens	23,964	23,679	(NA)	19,458
2392300	Towels and wash cloths, not specified by kind.....	.....	xxx	1,237	xxx	xxx

NA Not available.

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>Made in own plant.<sup>2</sup>The difference between (1) total production for all purposes and (2) the sum of production on commission plus shipments and interplant transfers approximates production for use in the same establishment.<sup>3</sup>For 1947, represents sales yarn shipments, only; for 1954, includes transfers from yarn mills to affiliated weaving or knitting mills. The value of all sales yarn spun and thrown is estimated for 1947 at about 80 percent of the total value including transfers. The shipment figures for the two years are therefore not comparable. Production statistics are comparable for both years.<sup>4</sup>Does not include production for own use in knitting mills, narrow fabric mills, and cordage and twine mills.<sup>5</sup>Primarily value of spun yarns rewound but not manufactured in the reporting establishment. Not included in 1947 data.<sup>6</sup>In 1947, production of nylon tire cord and tire cord fabric was included with rayon.<sup>7</sup>A small quantity of rayon chafer fabric, code 2224398, is included with code 2224331.<sup>8</sup>Code 2223259 is combined with code 2223219.<sup>9</sup>Laundry netting is reported in thousands of pounds. Quantity data are not include in any totals.<sup>10</sup>Code 2233262 is combined with code 2233298.<sup>11</sup>Sheeting yarn fabrics, 56 square and finer.<sup>12</sup>Does not include fine carded marquisettes.<sup>13</sup>In 1947 manufacturers reported pounds of production for only those fabrics made from own materials. On the basis of that information, pounds have been estimated for total production including the amount produced on commission.<sup>14</sup>Includes a substantial quantity of finished fabrics reported at their gray goods value.<sup>15</sup>Wool mixtures, 25 to 50% wool, were included with wool fabrics, code 2213, in 1947.<sup>16</sup>In 1947, rayon mixtures, code 2234651, were included with code 2234798. Therefore, 1954 and 1947 data for product classes 22346 and 22347 are not comparable by an unknown amount (presumably small).<sup>17</sup>Inasmuch as each mill reported only the total quantity and value of "all other woven fabrics," it is not feasible to effect a precise unit-price breakdown of these data. The value breakdown is based on the average unit value of all such fabrics reported by each mill.<sup>18</sup>Does not include open-mesh bagging made and used in bag plants.<sup>19</sup>Value of elastic braided narrow fabrics, code 22412, is included with code 22411.<sup>20</sup>Includes 13,866,000 yards of rayon fabrics described as "over 1 1/2 inches in width."<sup>21</sup>Braided narrow fabrics, except elastic, code 22414 and detail are included with code 22413. Woven narrow fabrics, except elastic.<sup>22</sup>Includes vulcanizing type.<sup>23</sup>The production data for broad woven fabric include the quantity finished by commission finishers for the account of textile converters; the shipments figures, however, do not include shipments of goods owned by converters (see text). 1947 shipments data are not available.<sup>24</sup>Although these figures were called for on the Census questionnaire, it is believed that a substantial part of the captive production was not reported.<sup>25</sup>Includes plastic film printed on textile printing equipment.<sup>26</sup>Includes narrow fabrics finished in the "Finishing Textiles, Except Wool, Industry."<sup>27</sup>Data for 1947 are not comparable with 1954 information because a number of textile mills producing sheets and pillowcases in 1947 reported them as shipments of gray broad woven fabrics, code 22333.

## COTTON, RAYON AND RELATED MANUFACTURES

22B-23

Table 6B.--VALUE OF PRODUCT CLASSES SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, BY DIVISIONS AND STATES FOR 1954, AND UNITED STATES TOTALS FOR EARLIER YEARS

(In thousands of dollars. Statistics are shown for selected product classes which are economically significant and production of which is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (Table 2) and they are not miscellaneous or "not specified by type" classes. For each product class, States are listed only if the value of shipments is more than \$1 million and the figure does not disclose individual company information. Additional States which had shipments of more than \$1 million of the individual product classes are listed in footnote 1)

Product class, region, and State <sup>1</sup>	Value of shipments	Product class, region, and State <sup>1</sup>	Value of shipments	Product class, region, and State <sup>1</sup>	Value of shipments
<u>Thrown yarns (22220)</u>		<u>Cotton duck and allied fabrics (22331)--Continued</u>		<u>Fine cotton goods (22337)</u>	
1954 United States, total.....	51,693	South Atlantic.....	71,238	1954 United States, total.....	318,866
1947 United States, total.....	(2)	South Carolina.....	26,358	1953 United States, total.....	(3)
1954		Georgia.....	38,369	1952 United States, total.....	(3)
New England.....	2,056	East South Central.....	40,473	1951 United States, total.....	(3)
Middle Atlantic.....	10,754	Alabama.....	40,473	1947 United States, total.....	(3)
New York.....	1,973	West South Central.....	11,650	1954	
New Jersey.....	1,887	Texas.....	11,064	New England.....	118,452
Pennsylvania.....	6,893	<u>Cotton sheeting and allied fabrics (22332)</u>		Massachusetts.....	64,810
South Atlantic.....	37,436	1954 United States, total.....	545,551	Connecticut.....	12,093
North Carolina.....	23,674	1953 United States, total.....	(3)	South Atlantic.....	182,236
<u>Yarns spun on cotton system (22242)</u>		1952 United States, total.....	(3)	North Carolina.....	33,017
1954 United States, total.....	677,787	1951 United States, total.....	(3)	South Carolina.....	139,501
1953 United States, total.....	870,520	1950 United States, total.....	(3)	East South Central.....	16,172
1952 United States, total.....	978,113	1947 United States, total.....	(3)	Tennessee.....	6,523
1951 United States, total.....	1,081,575	1954		Alabama.....	9,648
1950 United States, total.....	869,534	New England.....	23,558	<u>Other woven cotton fabrics and specialties (22338)</u>	
1947 United States, total.....	(2)	South Atlantic.....	399,515	1954 United States, total.....	247,423
1954		South Carolina.....	194,348	1953 United States, total.....	(3)
New England.....	29,678	Georgia.....	133,893	1952 United States, total.....	(3)
Massachusetts.....	14,905	East South Central.....	109,248	1951 United States, total.....	(3)
Connecticut.....	1,954	West South Central.....	11,573	1950 United States, total.....	(3)
South.....	643,554	<u>Cotton print cloth yarn fabrics (22333)</u>		1947 United States, total.....	(3)
North Carolina.....	393,386	1954 United States, total.....	515,646	1954	
South Carolina.....	42,380	1953 United States, total.....	(3)	South Atlantic.....	468,808
Georgia.....	114,600	1952 United States, total.....	(3)	North Carolina.....	75,909
Tennessee.....	20,374	1951 United States, total.....	(3)	South Carolina.....	351,137
Alabama.....	65,889	1950 United States, total.....	(3)	<u>Cotton colored yarn fabrics (22334)</u>	
<u>Tire cord and tire fabrics, cotton (22241)</u>		1947 United States, total.....	(3)	1954 United States, total.....	229,047
1954 United States, total.....	42,280	1954		1953 United States, total.....	(3)
1953 United States, total.....	52,304	South Atlantic.....	468,808	1952 United States, total.....	(3)
1952 United States, total.....	104,609	North Carolina.....	75,909	1951 United States, total.....	(3)
1951 United States, total.....	217,829	South Carolina.....	351,137	1950 United States, total.....	(3)
1950 United States, total.....	146,772	<u>Cotton colored yarn fabrics (22334)</u>		1947 United States, total.....	(3)
1947 United States, total.....	234,015	1954 United States, total.....	229,047	1954	
1954		1953 United States, total.....	(3)	South.....	42,280
South.....	42,280	1952 United States, total.....	(3)	Georgia.....	20,231
Georgia.....	20,231	1951 United States, total.....	(3)	Alabama.....	6,187
Alabama.....	6,187	1950 United States, total.....	(3)	<u>Tire cord and tire fabrics; man-made fibers (22243)</u>	
<u>Tire cord and tire fabrics; man-made fibers (22243)</u>		1947 United States, total.....	(3)	1954 United States, total.....	292,705
1954 United States, total.....	292,705	1954		1953 United States, total.....	313,631
1953 United States, total.....	313,631	South.....	228,170	1952 United States, total.....	271,788
1952 United States, total.....	271,788	North Carolina.....	94,501	1951 United States, total.....	211,926
1951 United States, total.....	211,926	South Carolina.....	18,508	1950 United States, total.....	129,407
1947 United States, total.....	129,407	Georgia.....	45,400	1954	
1954		Alabama.....	30,881	South.....	221,500
South.....	221,500	<u>Napped cotton fabrics, blankets and blanketing (22336)</u>		Georgia.....	97,951
Georgia.....	97,951	1954 United States, total.....	72,342	<u>Cotton duck and allied fabrics (22331)</u>	
<u>Cotton duck and allied fabrics (22331)</u>		1953 United States, total.....	(3)	1954 United States, total.....	128,134
1954 United States, total.....	128,134	1952 United States, total.....	(3)	1953 United States, total.....	(3)
1953 United States, total.....	(3)	1951 United States, total.....	(3)	1952 United States, total.....	(3)
1952 United States, total.....	(3)	1950 United States, total.....	(3)	1951 United States, total.....	(3)
1951 United States, total.....	(3)	1947 United States, total.....	(3)	1950 United States, total.....	(3)
1950 United States, total.....	(3)	1954		1947 United States, total.....	(3)
1947 United States, total.....	(3)	South Atlantic.....	61,185	1954	
1954		North Carolina.....	26,719	South.....	2,810
New England.....	2,810	South Carolina.....	15,636	Georgia.....	18,829
		Georgia.....	18,829		

See footnotes at end of table.

## MANUFACTURES--INDUSTRY STATISTICS

Table 6B.--VALUE OF PRODUCT CLASSES SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, BY DIVISIONS AND STATES FOR 1954, AND UNITED STATES TOTALS FOR EARLIER YEARS--Continued

Product class, region, and State <sup>1</sup>	Value of shipments	Product class, region, and State <sup>1</sup>	Value of shipments	Product class, region, and State <sup>1</sup>	Value of shipments
<u>100% filament rayon and/or acetate fabrics (22342)--Continued</u>		<u>Combination filament and spun rayon or acetate fabrics (22344)--Continued</u>		<u>Silk and man-made fiber fabrics, n.e.c. (22347)</u>	
1952 United States, total.....	312,112	South Atlantic.....	34,204	1954 United States, total.....	160,298
1951 United States, total.....	445,694	Virginia.....	2,203	1947 United States, total.....	431,995
1950 United States, total.....	550,142	North Carolina.....	17,499	1954	
1947 United States, total.....	446,193	South Carolina.....	14,502	New England.....	17,705
1954				Maine.....	2,436
New England.....	63,595	<u>Rayon and/or acetate mixtures with other fibers (22345)</u>		New Hampshire.....	3,180
New Hampshire.....	7,749	1954 United States, total.....	122,910	Massachusetts.....	6,691
Massachusetts.....	32,690	1953 United States, total.....	155,815	Rhode Island.....	3,792
Rhode Island.....	13,218	1952 United States, total.....	158,996	Connecticut.....	1,606
Middle Atlantic.....	35,320	1951 United States, total.....	166,534	Middle Atlantic.....	59,984
New Jersey.....	6,230	1947 United States, total.....	108,224	New York.....	6,027
Pennsylvania.....	28,687	1954		New Jersey.....	6,424
South.....	144,163	New England.....	33,938	Pennsylvania.....	47,533
Virginia.....	28,925	Maine.....	17,075	North Central.....	7,123
North Carolina.....	50,677	New Hampshire.....	6,537	South Atlantic.....	70,321
South Carolina.....	46,910	Massachusetts.....	7,517	Virginia.....	9,965
		Rhode Island.....	2,188	North Carolina.....	23,781
<u>100% spun rayon and/or acetate fabrics (22343)</u>		Middle Atlantic.....	12,208	South Carolina.....	18,697
1954 United States, total.....	153,886	New Jersey.....	1,163	Georgia.....	17,878
1953 United States, total.....	172,747	Pennsylvania.....	10,160	<u>Woven narrow fabrics, except elastic (22413)</u>	
1952 United States, total.....	153,964	South Atlantic.....	75,959	1954 United States, total.....	132,943
1951 United States, total.....	161,277	North Carolina.....	34,475	1947 United States, total.....	(NA)
1950 United States, total.....	163,255	South Carolina.....	27,364	1954	
1947 United States, total.....	118,234	Georgia.....	8,495	New England.....	35,450
1954		<u>Nylon and chiefly nylon fabrics (22346)</u>		New Hampshire.....	3,153
Northeast.....	3,133	1954 United States, total.....	150,481	Massachusetts.....	11,614
South Atlantic.....	148,884	1947 United States, total.....	14,200	Rhode Island.....	10,613
North Carolina.....	50,725	1954		Connecticut.....	9,926
South Carolina.....	78,037	New England.....	28,849	Middle Atlantic.....	58,512
Georgia.....	18,494	New Hampshire.....	5,562	New York.....	19,455
<u>Combination filament and spun rayon or acetate fabrics (22344)</u>		Massachusetts.....	14,994	New Jersey.....	15,541
1954 United States, total.....	40,179	Rhode Island.....	5,590	Pennsylvania.....	23,516
1953 United States, total.....	78,692	Middle Atlantic.....	13,664	East North Central.....	7,951
1952 United States, total.....	110,213	New York.....	2,050	Illinois.....	5,970
1951 United States, total.....	95,323	Pennsylvania.....	11,384	South Atlantic.....	25,295
1950 United States, total.....	80,354	South Atlantic.....	100,245	Maryland.....	3,666
1947 United States, total.....	79,038	Virginia.....	20,499	Virginia.....	3,415
1954		North Carolina.....	38,229	North Carolina.....	8,186
New England.....	4,271	South Carolina.....	32,982	South Carolina.....	6,131
Middle Atlantic.....	1,704	Georgia.....	8,535	East South Central.....	5,562

Note: The figures shown for 1950 to 1953 are sample estimates obtained from the Annual Survey of Manufactures for those years. Since the estimates are based on a sample they are subject to sampling variability, that is, they are not the same as figures which would have been obtained if complete censuses had been taken for those years. Measures of the sampling variability (standard errors) of the estimated total value of shipments of each product class are shown in the Annual Survey of Manufactures publications. Also shown are the standard errors of the relative change in shipments between some consecutive Annual Survey years which are the more significant measures when the series is studied for trend.

<sup>1</sup>For the specified product classes, shipments of over \$1 million were reported for the States, listed but the exact figures are withheld to avoid disclosure of individual company figures: 22220, Rhode Island, Virginia, South Carolina, and Georgia; 22242, Maine, New Hampshire, Rhode Island, Illinois, Maryland, Virginia, Kentucky, Arkansas, and California; 22241, North Carolina, South Carolina, and Tennessee; 22243, New York, Pennsylvania, Ohio, Virginia, North Carolina, South Carolina, Tennessee, and Alabama; 22331, Connecticut, Maryland, and North Carolina; 22332, Maine, Virginia, North Carolina, Tennessee, Alabama, Mississippi, Arkansas, and Texas; 22333, New Hampshire, Massachusetts, Virginia, Georgia, Tennessee, and Alabama; 22334, Virginia, Mississippi, Louisiana, and Texas; 22336, Maine, New Hampshire, Alabama, and Texas; 22337, Maine, Vermont, Rhode Island, Pennsylvania, Virginia, and Georgia; 22338, Maine, New Hampshire, Illinois, Maryland, Virginia, Kentucky, Alabama, Arkansas, and Texas; 22341, Rhode Island, and Georgia; 22342, Maine, Connecticut, Georgia, and Tennessee; 22343, New Hampshire and Tennessee; 22344, Maine, New Hampshire, and Pennsylvania; 22345, Virginia; 22346, Maine, Connecticut, and Alabama; 22347, Michigan, Missouri, Tennessee, and Alabama; 22413, Ohio, West Virginia, Georgia, and Alabama.

<sup>2</sup>The published data for 1947 represent sales yarn only and do not include interplant transfers of thrown and spun yarns.

<sup>3</sup>Data for years prior to 1954 include the gray goods value for fabrics sold as finished goods, and in some cases as fabricated goods. They are therefore, not comparable to the 1954 information.

<sup>4</sup>In 1947, nylon mixtures were included in product class 22347.



## COTTON, RAYON AND RELATED MANUFACTURES

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Table 6C.—YARNS SPUN ON THE COTTON SYSTEMS BY YARN COUNT: 1954

(Thousands of pounds)

Product code	Product description	Total	Yarn count						
			10's and below	Over 10's to 20's	Over 20's to 40's	Over 40's to 60's	Over 60's to 100's	Over 100's	Yarn count not specified
2221x51	Total yarns produced.....	4,104,955	820,995	1,325,512	1,438,158	193,281	28,298	1,674	297,037
2221x1	Yarns produced for own use, or for use of affiliated plants, total.....	3,130,364	534,365	1,157,750	1,253,134	161,491	22,575	1,549	...
2221x11	Carded cotton.....	2,510,365	481,360	958,731	1,002,391	67,237	646	...	...
2221x13	Combed cotton.....	318,836	4,807	14,928	183,450	93,024	21,929	698	...
2221x15	Spun rayon and/or acetate.....	248,036	37,408	157,529	52,249	249	...	601	...
2221x19	All other yarns.....	53,627	10,790	26,562	15,044	981	...	250	...
2221x3	Yarns produced for sale, total.....	677,054	236,630	167,762	185,024	31,790	5,723	125	...
2221x31	Carded cotton.....	446,007	260,665	109,936	73,556	1,781	69	...	...
2221x33	Combed cotton.....	182,497	6,252	37,533	103,145	29,803	5,639	125	...
2221x35	Spun rayon and/or acetate.....	29,737	15,393	9,415	4,902	27	...	...	...
2221x39	All other yarns.....	18,813	4,320	10,878	3,421	179	15	...	...
2221x99	Yarns, end use not specified.....	297,037	...	...	...	...	...	...	297,037
	Carded cotton.....	227,518	...	...	...	...	...	...	227,518
	Combed cotton.....	54,889	...	...	...	...	...	...	54,889
	Spun rayon and/or acetate and all other yarns.....	14,630	...	...	...	...	...	...	14,630

Table 7A.—MATERIALS CONSUMED, BY KIND: 1954

Code	Consuming industry and description of materials	Total consumption of yarn (1,000 lbs.)	
	Total yarns consumed in Industry 2233, Cotton Broad-woven Fabric Mills <sup>1</sup> .....	3,098,975	
	Cotton.....	2,981,770	
	Carded.....	2,709,651	
	Combed.....	272,119	
	Rayon and acetate.....	57,678	
	Spun (100 percent).....	32,044	
	Filament (100 percent).....	25,634	
	Acetate.....	3,118	
	Viscose and cuprammonium.....	22,516	
	Nylon filament.....	8,562	
	All other yarns (including blends and mixtures).....	50,965	
	Cotton content of blends and mixtures.....	14,893	
	Rayon and acetate content of blends and mixtures.....	22,530	
	Wool, alpaca, and mohair yarn, and content in blends and mixtures.....	5,058	
	All other fiber yarns, and content in blends and mixtures.....	8,484	
	Total yarns consumed in Industry 2234, Synthetic Broad-woven Fabric Mills <sup>1</sup> .....	687,095	
	Cotton.....	50,161	
	Carded.....	17,227	
	Combed.....	32,934	
	Rayon and acetate.....	491,000	
	Spun (100 percent).....	251,973	
	Filament (100 percent).....	239,027	
	Acetate.....	154,845	
	Viscose and cuprammonium.....	84,182	
	Nylon filament.....	45,700	
	All other yarns (including blends and mixtures).....	100,234	
	Cotton content of blends and mixtures.....	348	
	Rayon and acetate content of blends and mixtures.....	22,341	
	Wool, alpaca, and mohair yarn, and content in blends and mixtures.....	3,116	
	Silk.....	5,302	
	Glass.....	14,978	
	Plastic.....	11,993	
	Rubber, elastic, etc.....	3,451	
	All other fiber yarn and fiber content of blends and mixtures.....	38,705	
		Total consumption of yarn (1,000 lbs.)	Delivered cost (\$1,000)
	Materials, containers, and supplies total in Industry 2241, Narrow Fabric Mills.....	xxx	121,266
222111	Cotton yarns.....	63,491	48,516
222121	Rayon and acetate yarns.....	19,749	14,451
222131	Nylon yarns.....	6,207	11,240
222191	Glass yarns.....	1,329	1,002
222161	Other yarns.....	4,617	7,918
970000	All other materials, containers, and supplies consumed, including materials etc., not specified by kind.....	xxx	38,139

xxx Not applicable.

<sup>1</sup>Consumption of yarns in the Cotton broad-woven fabrics industry (2233) and Synthetic broad-woven fabrics industry (2234) are based on quarterly reports received on Census Form ML5T "Broad-woven Fabrics." Industry classification for this table was based on production of broad-woven fabrics as reported on that form.

## MANUFACTURES--INDUSTRY STATISTICS

Table 7B.—CONSUMPTION OF RAW COTTON BY INDUSTRY AND STATE  
(Domestic cotton in running bales: foreign cotton in 500-lbs equivalent gross bales)

Division and state	Total, all industries	Industry and industry group							
		Thread mills (S.I.C. 2223)	Yarn mills, cotton system (Census Code 2224 <sup>§</sup> )	Cotton broad- woven fabrics (Census Code 2233)	Synthetic broad-woven fabrics (Census Code 2234)	Knitting mills (S.I.C. 2251-9)	Miscellaneous textile goods (S.I.C. 2291-9)	Household furniture (S.I.C. 2511-9)	All other industries
United States, total.	8,530,113	110,212	1,746,015	6,419,974	101,209	54,877	60,321	6,515	30,990
New England.....	467,460	(2)	37,386	393,750	15,570	...	3,255	...	(2)
Maine.....	172,288	...	(2)	(4)	...	...	...	...	...
New Hampshire.....	35,566	...	...	(4)	...	...	(1)	...	(2)
Vermont.....	174,484	(1)	(3)	132,294	(3)	...	(2)	...	(2)
Massachusetts.....	49,787	(2)	...	(4)	(2)	...	(1)	...	...
Rhode Island.....	35,335	...	(3)	(3)	(2)	...	(1)	...	(2)
Connecticut.....	23,499	...	(2)	(3)	...	...	(2)	(1)	(2)
Middle Atlantic.....	5,819	...	(2)	(2)	...	...	(2)	...	(1)
New York.....	(3)	...	...	(2)	...	...	...	...	(2)
New Jersey.....	(2)	...	...	(2)	...	...	...	(1)	(2)
Pennsylvania.....	22,982	...	(2)	(2)	...	...	(1)	(2)	(2)
North Central.....	15,887	...	(2)	...	...	...	(1)	(3)	(2)
Illinois.....	8,008,666	(4)	1,695,326	6,010,456	85,639	54,877	52,956	2,680	(2)
South.....	(3)	...	...	(3)	...	...	(1)	...	...
Maryland.....	200,261	...	...	(4)	...	...	...	(1)	...
Virginia.....	2,383,736	(3)	1,031,671	1,285,142	(3)	(3)	(2)	...	(2)
North Carolina.....	2,277,764	45,015	77,882	2,134,546	(3)	...	...	...	(1)
South Carolina.....	1,685,078	(3)	355,494	1,249,531	(4)	(2)	...	(1)	...
Georgia.....	8,129	...	(2)	(2)	...	...	(1)	(1)	...
Kentucky.....	177,636	(3)	(3)	103,272	...	33,522	(2)	(1)	...
Tennessee.....	993,231	...	...	767,776	...	...	(4)	(1)	...
Alabama.....	40,743	...	...	(4)	...	(2)	...	(1)	...
Mississippi.....	30,255	...	(2)	(3)	...	...	...	(1)	...
Arkansas.....	(4)	...	...	(4)	...	...	...	(1)	...
Louisiana.....	(3)	...	...	(3)	...	...	...	(1)	...
Oklahoma.....	137,744	...	...	130,194	...	...	(2)	2,226	(1)
Texas.....	7,506	...	(2)	...	...	...	(2)	(2)	...
West.....	6,709	...	(2)	...	...	...	(2)	(1)	...
California.....									

Note: These data are based on monthly reports on Census Form M15P. Individual states are shown where total consumption was over 3,000 bales. Where the data are withheld to avoid disclosing information for individual companies, the figures shown below have been used to indicate consumption-size ranges:

<sup>1</sup>Less than 1,000 bales.

<sup>2</sup>1,000 to 9,999 bales.

<sup>3</sup>10,000 to 24,999 bales.

<sup>4</sup>25,000 or more bales.

<sup>§</sup>Includes some establishments classified in Industry 2298, Cordage and Twine.

## COTTON, RAYON AND RELATED MANUFACTURES

22B-27

Table 8.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY INDUSTRY SPECIALIZATION AND PRIMARY PRODUCT CLASS SPECIALIZATION, FOR THE UNITED STATES: 1954

(This table presents selected statistics for establishments classified according to their degree of specialization in products primary to the industry. The establishments are classified in two ways: (1) by industry specialization—the degree of specialization in all primary products of the industry; and (2) by product-class specialization—the degree of specialization in the largest product class of the establishment. The degree of "industry specialization" for an establishment represents the ratio of its primary product shipments to its total product shipments, primary and secondary. The degree of "product-class specialization" for an establishment represents the ratio of its largest product class shipments to its total product shipments, primary and secondary. Data are not shown for some industries, product classes, and specialization ranges for a variety of reasons, consequently, detailed figures frequently do not add to the totals. See Introduction for detailed explanation)

Ind. or product class No.	Industry or product class by percent of specialization	Establishments, number	All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
2223	THREAD MILLS (entire industry).....	97	13,908	38,281	12,221	22,807	29,267	62,694	121,052	183,746
	Establishments with:									
	90% or more specialization.....	81	9,412	25,642	8,418	15,700	20,140	42,649	79,290	121,940
	75-89% specialization.....	5	2,006	5,694	1,789	3,454	4,488	7,205	16,775	23,980
22231	Thread for use in the home:									
	All establishments specializing in product class.	24	4,444	12,307	3,694	7,005	8,616	17,622	48,161	65,784
	Establishments with:									
	90% or more specialization.....	19	1,205	3,007	1,099	2,025	2,344	4,063	6,879	10,942
22232	Thread for industrial or manufacturers use:									
	All establishments specializing in product class.	60	8,465	23,600	7,575	14,019	18,513	41,529	66,935	108,464
	Establishments with:									
	90% or more specialization.....	50	5,910	16,554	5,245	9,586	12,661	29,927	50,273	80,200
2224	YARN MILLS, COTTON SYSTEM (entire industry).....	357	85,275	197,292	80,944	144,959	175,558	298,833	731,793	1,030,627
	Establishments with:									
	90% or more specialization.....	295	65,742	151,879	62,548	111,631	135,488	232,829	598,579	831,409
	75-89% specialization.....	15	8,680	19,560	8,195	14,442	17,261	30,803	75,629	106,433
	50-74% specialization.....	14	6,877	17,103	6,436	11,939	15,059	21,417	39,426	60,843
	All other <sup>1</sup> .....	33	3,975	8,749	3,764	6,946	7,750	13,783	18,158	31,941
22242	Yarns spun or cotton system:									
	All establishments specializing in product class.	274	67,416	151,749	64,224	114,250	135,492	213,818	414,762	628,580
	Establishments with:									
	90% or more specialization.....	248	54,100	121,143	51,648	91,916	108,329	172,251	340,894	513,145
	75-89% specialization.....	11	5,006	10,568	4,790	7,973	9,402	15,969	25,175	41,144
22243	Tire cord and tire fabrics; man-made fibers:									
	All establishments specializing in product class.	20	12,536	33,227	11,741	21,614	29,659	65,643	287,101	352,745
	Establishments with:									
	90% or more specialization.....	11	3,187	9,215	2,949	5,181	8,173	21,399	120,946	142,345
	75-89% specialization.....	5	4,094	10,288	3,860	7,357	9,231	18,351	82,605	100,956
	50-74% specialization.....	4	5,254	13,723	4,931	9,075	12,254	25,893	83,549	109,443
2233	COTTON BROAD-WOVEN FABRICS (entire industry).....	582	296,193	783,011	280,546	537,531	702,649	1,127,507	1,662,114	2,789,621
	Establishments with:									
	90% or more specialization in gray goods <sup>2</sup> .....	430	182,347	477,615	174,045	335,919	434,597	658,276	1,012,035	1,670,312
22331	Cotton duck and allied fabrics (gray goods) <sup>2</sup> :									
	All establishments specializing in product class.	37	13,707	34,073	12,908	23,873	29,795	48,272	80,684	128,956
	Establishments with:									
	90% or more specialization.....	17	2,725	6,825	2,595	4,845	6,018	8,698	16,454	25,152
22332	Cotton sheeting and allied fabrics (gray goods) <sup>2</sup> :									
	All establishments specializing in product class.	93	57,432	144,474	55,033	105,764	132,231	197,871	363,444	561,315
	Establishments with:									
	90% or more specialization.....	51	26,581	64,927	25,593	48,258	59,449	90,467	168,952	259,420
22333	Cotton print cloth yarn fabrics (gray goods) <sup>2</sup> :									
	All establishments specializing in product class.	86	56,702	158,985	54,089	110,826	145,598	220,194	326,189	546,384
	Establishments with:									
	90% or more specialization.....	62	38,741	108,064	37,082	77,198	99,441	148,626	221,097	369,724
22334	Cotton colored yarn fabrics (gray goods) <sup>2</sup> :									
	All establishments specializing in product class.	32	27,515	65,323	26,202	46,141	59,161	92,092	145,188	237,280
	Establishments with:									
	90% or more specialization.....	23	17,340	41,911	16,674	29,615	38,465	58,149	94,979	153,128
22335	Cotton towels, toweling, and dishcloth fabric (gray goods) <sup>2</sup> :									
	All establishments specializing in product class.	15	4,110	10,262	3,881	7,191	9,250	14,689	22,662	37,352
	Establishments with:									
	90% or more specialization.....	11	1,197	3,184	1,099	2,139	2,838	4,876	6,813	11,690
22336	Napped cotton fabrics, blankets and blanketing (gray goods) <sup>2</sup> :									
	All establishments specializing in product class.	14	5,517	13,547	5,277	9,785	12,199	20,216	25,896	46,112
	Establishments with:									
	90% or more specialization.....	7	2,464	5,924	2,356	4,396	5,348	10,019	11,800	21,819

See footnotes at end of table.



## MANUFACTURES—INDUSTRY STATISTICS

Table 8.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY INDUSTRY SPECIALIZATION AND PRIMARY PRODUCT CLASS SPECIALIZATION, FOR THE UNITED STATES: 1954—Continued

Ind. or product class No.	Industry or product class by percent of specialization	Establishments, number	All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
2233	COTTON BROAD-WOVEN FABRICS—Continued									
22337	Pine cotton goods (gray goods) <sup>2</sup> :									
	All establishments specializing in product class	55	35,536	98,147	33,842	65,301	89,586	139,278	146,514	285,792
	Establishments with:									
	90% or more specialization.....	46	28,355	78,753	26,945	52,024	71,819	110,801	109,882	220,684
22338	Other woven cotton fabrics and specialties (gray goods) <sup>2</sup> :									
	All establishments specializing in product class.	120	21,458	58,405	20,042	37,275	49,976	84,713	134,611	219,325
	Establishments with:									
	90% or more specialization.....	83	9,519	27,308	8,781	16,229	22,749	40,621	63,754	104,375
2234	SYNTHETIC BROAD-WOVEN FABRICS (entire industry).....	478	89,994	272,872	83,120	166,984	234,476	422,765	719,864	1,142,629
	Establishments with:									
	90% or more specialization in gray goods <sup>2</sup> .....	298	46,693	140,555	43,425	87,116	121,835	220,871	404,663	625,535
22341	Rayon and acetate pile, upholstery, and tie fabrics (gray goods) <sup>2</sup> :									
	All establishments specializing in product class.	52	4,211	14,606	3,803	7,765	11,994	21,600	37,541	59,142
	Establishments with:									
	90% or more specialization.....	40	2,144	7,459	1,943	3,743	6,158	11,711	14,671	26,383
22342	100% filament rayon and/or acetate fabrics (gray goods) <sup>2</sup> :									
	All establishments specializing in product class.	91	19,677	60,754	18,307	37,517	52,313	92,699	206,306	299,006
	Establishments with:									
	90% or more specialization.....	41	3,866	12,082	3,645	7,424	10,687	21,508	49,048	70,556
22343	100% spun rayon and/or acetate fabrics (gray goods) <sup>2</sup> :									
	All establishments specializing in product class.	24	14,762	41,355	14,030	27,804	37,193	67,718	93,599	161,317
22345	Rayon and/or acetate mixtures with other fibers (gray goods) <sup>2</sup> :									
	All establishments specializing in product class.	31	6,804	22,235	6,053	11,684	17,891	40,043	45,858	85,902
	Establishments with:									
	90% or more specialization.....	12	874	2,806	796	1,586	2,367	4,155	8,188	12,344
22346	Nylon and chiefly nylon fabrics (gray goods) <sup>2</sup> :									
	All establishments specializing in product class.	41	12,828	37,891	11,825	23,964	32,717	56,163	123,291	179,455
	Establishments with:									
	90% or more specialization.....	8	540	1,737	508	1,106	1,524	3,139	6,118	9,258
22347	Silk and man-made fiber fabrics, n.e.c. (gray goods) <sup>2</sup> :									
	All establishments specializing in product class.	79	8,764	27,162	7,997	15,725	22,786	42,470	74,763	117,233
	Establishments with:									
	90% or more specialization.....	51	3,869	12,017	3,504	6,494	9,688	17,676	32,331	50,008
2241	NARROW FABRIC MILLS (entire industry).....	513	25,676	79,063	22,862	44,962	61,456	121,547	128,615	250,162
	Establishments with:									
	90% or more specialization.....	457	21,521	65,465	19,199	37,873	51,336	101,413	105,467	206,880
	75-89% specialization.....	16	2,576	8,255	2,336	4,601	6,376	11,081	15,583	26,665
	50-74% specialization.....	13	860	3,642	688	1,362	2,388	6,530	6,201	12,732
	All other <sup>1</sup> .....	27	719	1,700	638	1,125	1,355	2,522	1,361	3,884
22411	Elastic woven narrow fabrics:									
	All establishments specializing in product class.	39	4,425	13,805	4,146	8,052	11,467	20,208	25,741	45,949
	Establishments with:									
	90% or more specialization.....	24	1,522	5,143	1,424	2,848	4,302	8,661	9,865	18,527
	75-89% specialization.....	6	1,640	5,078	1,538	3,229	4,306	6,660	8,225	14,885
22413	Woven narrow fabrics, except elastic:									
	All establishments specializing in product class.	271	13,396	43,680	11,673	22,983	32,798	66,965	62,595	129,561
	Establishments with:									
	90% or more specialization.....	250	11,094	35,095	9,755	19,080	26,638	53,393	47,695	101,089
	75-89% specialization.....	10	1,227	4,555	1,032	2,123	3,322	6,435	7,707	14,142
22414	Braided narrow fabrics, except elastic:									
	All establishments specializing in product class.	87	4,503	12,136	4,099	8,165	9,676	18,773	22,477	41,250
	Establishments with:									
	90% or more specialization.....	67	2,037	5,295	1,843	3,786	4,177	8,879	9,127	18,007
	75-89% specialization.....	9	710	1,503	666	1,047	1,179	2,248	4,015	6,264
	50-74% specialization.....	4	574	1,387	542	1,118	1,217	1,722	3,577	5,299
	Less than 50% specialization.....	7	1,181	3,950	1,047	2,212	3,101	5,922	5,757	11,679

<sup>1</sup>This class includes data for establishments with less than 50 percent specialization in the primary products of the industry and establishments engaged exclusively in contract work defined in the industry. Miscellaneous small statistical adjustments are also included.

<sup>2</sup>Since these data are based on shipments, they exclude establishments which specialized to this extent in the production of gray goods, but which shipped them as finished fabrics (bleached or dyed).

## COTTON, RAYON AND RELATED MANUFACTURES

22B-29

Table 9A.—MACHINERY FOR TEXTILE FIBER AND YARN PREPARATION IN POSSESSION OF COTTON AND RAYON MILLS: DECEMBER 31, 1954 AND 1947

This table presents machinery data for establishments classified in the following industries:

2222 Yarn throwing mills	2233 Cotton broad-woven fabrics
2223 Thread mills	2234 Synthetic broad-woven fabrics
2224 Yarn mills, cotton system	2261 Finishing textiles, except wool

Data for small establishments reporting on the short form (see Introduction, Section 5) are not included.

Type of machine	December 31, 1954		December 31, 1947	
	Total	Idle entire year	Total	Idle entire year
Cards.....	88,670	1,003	86,442	656
Combs.....	5,996	294	9,138	268
Roving machinery (thousands of spindles).....	2,034	80	3,047	59
Long draft:				
Slubbers.....	785	5	523	2
Intermediates.....	294	6	310	3
Fine frames.....	181	9	295	7
Jack frames.....	17	...	17	...
Regular draft:				
Slubbers.....	146	8	185	3
Intermediates.....	108	13	330	12
Fine frames.....	346	27	1,006	24
Jack frames.....	157	12	381	8
Cotton system spinning spindles (thousands).....	<sup>1</sup> 21,607	403	<sup>1</sup> 22,730	150
Ring spinning spindles.....	21,574	373	22,612	137
By type:				
Long draft:				
Tape drive.....	15,645	53	10,342	51
Band drive.....	2,508	38	4,042	6
Regular draft:				
Tape drive.....	1,546	43	2,334	1
Band drive.....	1,875	239	5,894	79
By ring size:				
1 3/8 inches and smaller.....	3,776	99	4,440	(NA)
1 7/16 inches through 1 3/4 inches.....	5,242	127	7,620	(NA)
1 13/16 inches through 2 1/4 inches.....	9,856	134	8,715	(NA)
2 5/16 inches and larger.....	2,700	13	1,837	(NA)
Mule spinning spindles.....	33	30	118	13
Doubling and twisting spindles, cotton-system (thousands).....	2,992	202	3,514	96
Ring size:				
1 3/4 inches and smaller.....	190	65	513	(NA)
1 13/16 inches through 2 3/8 inches.....	795	56	1,166	(NA)
2 7/16 inches through 3 1/2 inches.....	1,348	66	1,267	(NA)
3 9/16 inches and larger.....	659	15	568	(NA)
Throwing and twisting spindles (thousands).....	2,629	192	1,884	37
Silk-system spinning spindles (thousands).....	203	15	597	73
Warping equipment:				
High speed warpers.....	4,245	37	2,763	7
Low speed warpers.....	1,245	123	2,644	195

NA Not available.

<sup>1</sup>Total cotton system spindles in place at all manufacturing establishments at the end of 1954 and 1947 was 22,561,000 and 23,727,000 respectively. The difference between these figures and those shown in the table are accounted for by establishments which were not requested to report spindle data including those classified in industries excluded from this table, such as knitting mills and cordage and twine mills.

## MANUFACTURES--INDUSTRY STATISTICS

Table 95.--LOOMS IN POSSESSION OF COTTON, RAYON AND RELATED BROAD WOVEN FABRIC MILLS BY GEOGRAPHIC DIVISION AND STATE: 1954

This table presents machinery data for establishments classified in the following industries:

2222 Yarn throwing mills	2233 Cotton broad-woven fabrics
2223 Thread mills	2234 Synthetic broad-woven fabrics
2224 Yarn mills, cotton system	2261 Finishing textiles, except wool

Data for small establishments reporting on the short form (see Introduction, Section 5) are not included.

Division and State <sup>1</sup>	Number of looms
United States, total.....	482,879
New England.....	80,684
Maine.....	14,957
Massachusetts.....	41,547
Rhode Island.....	9,952
Connecticut.....	6,925
Middle Atlantic.....	26,360
New York.....	1,844
New Jersey.....	6,743
Pennsylvania.....	17,773
South Atlantic.....	323,698
Virginia.....	22,946
North Carolina.....	88,123
South Carolina.....	155,950
Georgia.....	56,011
East South Central.....	41,392
Tennessee.....	6,877
Alabama.....	30,915
West South Central.....	8,929
Texas.....	4,885
North Central and West.....	1,816

<sup>1</sup>Individual States are not listed if the number of looms reported in that state is zero, or if the data are withheld in order to avoid disclosure of individual company information. In the latter case (New Hampshire, Vermont, Ohio, Indiana, Illinois, Michigan, Wisconsin, Missouri, Maryland, Florida, Kentucky, Mississippi, Arkansas, Louisiana, Oklahoma, Utah and Oregon) the figures are included in the division subtotals.



## COTTON, RAYON AND RELATED MANUFACTURES

22B-31

Table 9C.—TEXTILE FINISHING MACHINERY IN POSSESSION OF COTTON AND RAYON MILLS AND FINISHING PLANTS: DEC. 31, 1954

This table presents machinery data for establishments classified in the following industries:

2222 Yarn throwing mills	2233 Cotton broad-woven fabrics
2223 Thread mills	2234 Synthetic broad-woven fabrics
2224 Yarn mills, cotton system	2261 Finishing textiles, except wool

Data for small establishments reporting on the short form (See Introduction, Sec. 5) are not included.

Type of machine	Number of machines	
	Primarily processing cotton	Primarily processing rayon-made fibers and silk
Bleaching equipment:		
Kiers:		
Open.....	120	53
Closed.....	722	27
Continuous bleaching systems.....	105	33
Piece dyeing machines:		
Jigs:		
Under 42 inches.....	308	43
42 inches and wider.....	1,235	1,766
Pads:		
Under 42 inches.....	62	14
42 inches and wider.....	410	301
Other continuous dyeing machines:		
Under 42 inches.....	104	177
42 inches and wider.....	392	1,009
Printing equipment:		
Roller printing machines:		
Under 45 inches.....	152	35
45 inches and wider.....	272	177
Flock printing machines.....	22	32
Plisse machines (for caustic soda crepe).....	34	...
Calendering machines:		
Embossing.....	113	111
Schreiner.....	107	4
Friction glazing.....	205	58
Chasing.....	26	5
Other.....	289	197
Equipment for mercerizing yarn.....	96	...
Equipment for mercerizing fabric.....	161	...

## MANUFACTURES--INDUSTRY STATISTICS

Table 9D--SPINNING, THROWING, AND WEAVING EQUIPMENT OF COTTON, RAYON AND RELATED BROAD WOVEN FABRIC MILLS BY SIZE OF MILL AND DEGREE OF INTEGRATION:  
DECEMBER 31, 1954

(Data for any size class which cannot be shown without disclosing information for individual companies have been combined with figures for the next smaller size class. A (D) appears in the column where the figure has been omitted and the combined figure is underlined)

Mills classified by number of looms in possession	All mills, total	Degree of integration <sup>1</sup>					
		Weaving only	Spinning and weaving <sup>2</sup>	Throwing and weaving	Spinning, throwing, and weaving	Weaving and finishing	Spinning and/or throwing, weaving, and finishing
All mills with looms:							
Number of mills.....	899	346	367	66	16	29	75
Number of cotton and silk system spinning spindles.....thousands..	16,913	...	13,745	...	400	...	2,768
Number of throwing and twisting spindles.....thousands..	1,313	...	...	981	290	...	42
Number of looms.....	482,879	52,148	308,569	32,045	17,056	4,517	68,544
Mills with 2,000 and more looms:							
Number of mills.....	39	(D)	(D)	...	3	...	6
Number of cotton and silk system spinning spindles.....thousands..	4,353	...	(D)	...	143	...	959
Number of throwing and twisting spindles.....thousands..	131	...	...	...	(D)	...	(D)
Number of looms.....	114,721	(D)	(D)	...	8,620	...	23,660
Mills with 1,500-1,999 looms:							
Number of mills.....	37	<u>4</u>	<u>58</u>	(D)	(D)	...	3
Number of cotton and silk system spinning spindles.....thousands..	2,328	...	<u>5,321</u>	...	(D)	...	224
Number of throwing and twisting spindles.....thousands..	116	...	...	(D)	(D)	...	...
Number of looms.....	64,489	<u>6,992</u>	<u>130,738</u>	(D)	(D)	...	5,479
Mills with 1,000-1,499 looms:							
Number of mills.....	78	4	49	<u>9</u>	<u>4</u>	...	14
Number of cotton and silk system spinning spindles.....thousands..	3,457	...	2,697	...	<u>136</u>	...	658
Number of throwing and twisting spindles.....thousands..	182	...	...	<u>154</u>	<u>144</u>	...	...
Number of looms.....	95,348	4,860	60,580	<u>11,488</u>	<u>5,632</u>	...	16,509
Mills with 500-999 looms:							
Number of mills.....	168	12	117	17	(D)	(D)	18
Number of cotton and silk system spinning spindles.....thousands..	4,036	...	3,478	...	(D)	...	513
Number of throwing and twisting spindles.....thousands..	456	...	...	442	(D)	...	(D)
Number of looms.....	115,953	7,424	80,357	12,204	(D)	(D)	13,223
Mills with 100-499 looms:							
Number of mills.....	308	112	122	26	<u>6</u>	<u>16</u>	30
Number of cotton and silk system spinning spindles.....thousands..	2,516	...	2,038	...	<u>121</u>	...	402
Number of throwing and twisting spindles.....thousands..	304	...	...	261	(D)	...	26
Number of looms.....	80,003	23,085	35,945	7,706	<u>2,746</u>	<u>3,840</u>	9,426
Mills with 50-99 looms:							
Number of mills.....	112	87	10	8	...	(D)	(D)
Number of cotton and silk system spinning spindles.....thousands..	73	...	64	...	...	...	(D)
Number of throwing and twisting spindles.....thousands..	52	...	...	52	...	...	(D)
Number of looms.....	7,907	6,092	702	537	...	(D)	(D)
Mills with 1-49 looms:							
Number of mills.....	157	127	11	6	3	<u>13</u>	<u>4</u>
Number of cotton and silk system spinning spindles.....thousands..	150	...	147	...	( <sup>3</sup> )	...	<u>12</u>
Number of throwing and twisting spindles.....thousands..	72	...	...	72	( <sup>3</sup> )	...	( <sup>3</sup> )
Number of looms.....	4,458	3,695	247	110	58	<u>677</u>	<u>247</u>

D Data withheld to avoid disclosing information for individual companies.

<sup>1</sup>Degree of integration determined by type of machinery reported.<sup>2</sup>Some cotton or rayon mills included in this category reported woolen or worsted spindles, but no cotton or silk system spindles. Woolen and worsted spindles are not included in this table.<sup>3</sup>Less than 500 spindles.

## Knitting Mills

This report shows 1954 Census of Manufactures statistics for establishments classified in each of the following industries:

Code	Title
2251--	Full-Fashioned Hosiery Mills
2252--	Seamless Hosiery Mills
2253--	Knit Outerwear Mills
2254--	Knit Underwear Mills
2255--	Knit Glove Mills
2256--	Knit Fabric Mills
2259--	Knitting Mills, Not Elsewhere Classified

Establishments were classified in these industries provided they were primarily engaged in making the specified products from yarns knitted in the same establishments, or were primarily engaged in the dyeing or finishing of hosiery or other knitted fabrics. In addition, these industries also include establishments which employ commission knitters and finishers to make products for their account and establishments which knit or finish on a commission basis for other establishments. Establishments making similar products, such as knit outerwear and underwear, on a cut-and-sew basis from fabrics knit in other establishments are not included in these industries. Such non-integrated plants are included in the statistics for Major Group 23, Apparel and Related Products. Thus, products which are primary to S.I.C. Group 225, are also treated as primary to industries in Major Group 23. This results, particularly in the case of Industries 2253, 2254, and 2255, in a somewhat less than usual degree of comparability between the industry statistics shown in Tables 1-4 and the detailed product information shown in Table 6A. The extent to which the industry and commodity statistics overlap for each of these industries is shown below in the discussion for the specific industries.

As indicated above, three types of establishments operate in Industry Group 225, Knitting Mills: (1) establishments making products from yarns knit in the same establishments and establishments dyeing and finishing hosiery or knitted products for their own account ("manufacturers"), (2) establishments knitting or finishing hosiery and other knitted products for the account of others ("contractors"), and (3) establishments who

act as "converters" of hosiery and other knitted products in that they purchase the yarns or greige goods and employ, "contractors" to process the materials for their account. The "converters" primarily perform the entrepreneurial functions of a manufacturing company, such as buying raw materials, arranging for the knitting and finishing, and selling the final product. The actual processing of the yarns into the final product is performed on contract by the "contractor" or commission knitter and finisher. Establishments which are primarily wholesalers or dealers in that they purchase and resell knitted products but do not perform the functions of the knitting mill converter are classified in Wholesale Trade. The 1945 edition of the Standard Industrial Classification has been amended by the Bureau of the Budget by the transfer of the knitwear converter from the Wholesale Trade to Manufacturing. The knitwear converters were included in manufacturing in earlier censuses and the data are therefore comparable for all years.

In reporting on the Census of Manufactures questionnaires, the "manufacturers" show figures on employment, cost of raw materials, and value of products made and sold. The knitwear "converters" report data comparable to the "manufacturers" on the cost of raw materials and the value of products, but employ relatively few workers at their establishments. The labor costs incurred in producing garments are included by the "converters" in cost of contract work. The value added by manufacture shown for the knitwear "converter," as for all other manufacturing industries, exclude the cost of contract work as well as the cost of materials. The "contractors," on the other hand, report their employment and receipts for contract work rather than the value of the final products. These contract plants do not report the cost of materials which they process but report only the cost of their own operating supplies.

In order to point up the significant differences in the relationship between wages and salaries paid, the cost of materials, the value of products, and value added by manufacture for the three types of establishment, plants were classified by their primary method of operations as "manufacturer," "converter," or "contractor." The table below provides comparative data for each of the three types of establishments included in the industries covered by this report.

### SUMMARY STATISTICS FOR KNITTING MILLS, S.I.C. Group 225, BY TYPE OF ESTABLISHMENT: 1954

(In thousands of dollars, except for ratios)

Item	Total	Manufacturers	Converters	Contractors
Value of products, including miscellaneous receipts.....	<sup>1</sup> 2,156,615	1,742,856	288,086	<sup>2</sup> 125,673
Costs of materials, fuels, electricity and contract work.....	<sup>1</sup> 1,218,480	964,960	220,587	32,933
Cost of materials, etc., excluding contract work.....	1,105,230	934,502	141,269	29,459
Cost of contract work <sup>3</sup> .....	113,250	30,458	79,318	3,474
Value added by manufacture.....	938,130	777,892	67,501	92,737
Wages and salaries paid.....	597,314	508,845	26,478	61,991
Ratio of wages and salaries to value added by manufacture.....	.64	.65	.39	67

<sup>1</sup>Contains from 10-20 percent overstatement because it includes: (1) semi-finished products as well as finished products and (2) receipts for contract and commission work which are also reflected in the value of finished products.

<sup>2</sup>Represents primarily receipts for contract and commission work on materials owned by others.

<sup>3</sup>Contains from 5-10 percent overstatement because of the inclusion of the cost of semi-finished goods as well as the cost of yarns from which such goods were made.



In this connection it should be noted that establishments in these industries may also employ more than one method of operating. For example, some establishments will operate as both a manufacturer and converter, or as both a manufacturer and contractor. In assigning the primary method of operation classification to manufacturer-converter plants, the relationship between wages and salaries paid to the cost of contract work was used. If wage and salary payments exceeded contract payments, the plant was classified as a "manufacturer"; if the contract payments exceeded the wage and salary payments, the plant was classified as a "converter." Similarly for manufacturer-contractor plants, the value of products made for their own account was compared with the receipts for work done on materials owned by other establishments to determine the plant's primary method of operation.

It should be noted that the relative importance of the three types of establishments varies significantly among the industries included in S.I.C. Group 225. For this reason, in this report separate statistics by type of establishment are shown only for Industry 2253, Knit Outerwear Mills, and Industry 2256, Knit

Fabric Mills; in the case of the other industries, practically all establishments operate as "manufacturers."

Although similar data by type of establishment for 1947 are not readily available, it is believed that there has not been any substantial shift between 1947 and 1954 in the relative importance of methods of operation; data for 1939 and earlier years are shown in Vol. II, Part I, of the 1939 Census of Manufactures.

As indicated above, some items of knit apparel are made in establishments classified in S.I.C. Group 225, Knitting Mills, as well as in establishments making similar products on a cut-and-sew basis from fabrics knit in other establishments. The latter type of establishments are classified in Major Group 23, Apparel and Related Products. Such products, however, are considered primary to both types of industries. The table shown below, summarizes the 1954 data for such products, showing the proportions made in each group. In addition, separate figures are shown on the output of similar products made from woven fabrics which are primary to Major Group 23 only.

SELECTED APPAREL PRODUCT CLASSES PRIMARY TO TWO OR MORE INDUSTRIES, BY INDUSTRY GROUP: 1954

Code	Product class	Total value of production (\$1,000)	Percent made in	
			Knitting mills (SIC 225--)	Apparel and related products industries (SIC 23--)
22531	Sweaters, knit jackets and jerseys.....	308,156	90	10
22532	Knit outerwear sport shirts.....	166,637	54	46
22533	Swimwear and athletic shorts, total.....	92,514	16	84
	Made from:			
	Knit fabrics.....	7,071	71	29
	Woven fabrics.....	83,657	...	...
	Fabric not specified.....	1,790	11	89
23230	Men's and boys' neckwear, total.....	101,280	2	98
	Made from:			
	Knit fabrics.....	4,936	45	55
	Woven fabrics.....	96,344	...	100
23250	Cloth hats and caps, total.....	62,877	9	91
	Made from:			
	Knit fabrics.....	7,303	74	26
	Woven fabrics.....	55,574	( <sup>1</sup> )	100
23212	Men's and boys' nightwear, total.....	76,003	5	95
	Made from:			
	Knit fabrics.....	6,174	65	35
	Woven fabrics.....	69,746	...	100
	Fabric not specified.....	83	...	...
23220	Men's and boys' underwear, total.....	214,315	68	32
	Made from:			
	Knit fabrics.....	151,426	92	8
	Woven fabrics.....	60,946	10	90
	Fabric not specified.....	1,943	42	58
23411	Women's and children's underwear, total.....	534,792	11	89
	Made from:			
	Knit fabrics.....	325,463	18	82
	Woven fabrics.....	194,610	...	...
	Fabric not specified.....	14,719	1	99
23412	Women's and children's nightwear, total.....	243,127	12	88
	Made from:			
	Knit fabrics.....	89,189	31	69
	Woven fabrics.....	149,184	...	...
	Fabric not specified.....	4,754	1	99
23690	Children's outerwear, n.e.c., total.....	221,674	5	95
	Made from:			
	Knit fabrics.....	27,413	38	62
	Woven fabrics.....	177,270	...	100
	Fabric not specified.....	16,991	...	...
23810	Dress gloves and mittens, except all leather, total.....	48,745	20	80
	Made from:			
	Knit fabrics.....	38,891	20	80
	Woven fabrics.....	4,564	...	...
	Fabric not specified.....	5,290	20	80
23820	Work gloves and mittens, except all leather, total.....	66,844	2	98
	Made from:			
	Knit fabrics.....	10,345	11	89
	Woven fabrics.....	54,657	...	100
	Fabric not specified.....	1,842	...	...

<sup>1</sup>Includes cloth hats and caps made in Industry Group 228, Hats (Except Cloth and Millinery).

The Bureau of the Census publishes current production data in the Facts For Industry series on the products of five of the seven industries covered in this report. They are Facts For Industry release, M67C, Knit Underwear and Nightwear (quarterly); M67G, Knit Outerwear (annual); M67D, Gloves and Mittens (annual); and M15K, Knit Cloth For Sale (annual). In addition, monthly figures on the shipments of men's and women's sweaters are contained in Facts For Industry series, M67B, Men's Apparel, and M67H, Women's, Misses' and Juniors' Apparel. Monthly figures on the cuttings of women's slips are also shown in the latter publication.

The 1954 Census figures shown in Table 6A of this report may differ from the sum of the 1954 monthly of quarterly estimates shown in the Facts For Industry reports M67B, M67C, and M67H, primarily due to differences in reporting by the same respondents on the current and census questionnaires, and to some extent to the effect of sampling variations in the current estimates. In addition, it should be noted that some manufacturers in reporting for the 1954 Census did not adequately describe the specific garments which they made, or reported value only. The value of such output is shown in Table 6A, under the several categories for "Not specified by kind," or "Quantity not reported." The 1954 Census statistics on number of garments made do not, of course, include the output represented by such values.

#### 2251--Full-Fashioned Hosiery Mills

This industry comprises establishments primarily engaged in knitting, dyeing and finishing full-fashioned hosiery. Establishments seaming and looping full-fashioned hosiery are also included in this industry. For a detailed list of primary products of Industry 2251 refer to Table 6A, product codes 2251111 to 2251231.

Figures on the total cost of materials and value of shipments of Industry 2251, Full-Fashioned Hosiery Mills have not been published because they contain a high percentage of duplication. The value of hosiery shipped in the greige would, in effect, be counted twice; once as a shipment of the establishment producing greige goods to the dyeing and finishing plant and once more in the value of finished hosiery shipped by the dyeing and finishing plant. Similarly, the cost of materials figures would also be overstated. For this reason, therefore, the primary product specialization ratio could not be computed precisely for this industry. This ratio is, however, quite high (over 90) in both 1954 and 1947 since the value of secondary products shipped by the industry (principally seamless hosiery) was low compared to the value of its primary products (finished full-fashioned hosiery, and full-fashioned hosiery shipped in the greige).

Because of this duplication in the value of the primary products of Industry 2251, Full-Fashioned Hosiery Mills, the coverage ratio also cannot be precisely computed. However, for both 1954 and 1947, it is quite high (over 90) since only a small amount of these products were reported by plants classified in other industries.

#### 2252--Seamless Hosiery Mills

This industry comprises establishments primarily engaged in knitting, dyeing or finishing seamless (circular knit) hosiery. The principal products of this industry are seamless hosiery, finished or sold as greige goods, including anklets, slipper socks, pads, and athletic socks. For a detailed list of primary products of Industry 2252, refer to Table 6A, product codes 2252111 to 2252451.

The value of shipments of Industry 2252, Seamless Hosiery Mills, in 1954 totaled \$429 million. This included shipments of primary products (seamless hosiery) valued at \$402 million, shipments of secondary products valued at \$15 million and miscellaneous receipts (mainly contract knitting, dyeing or finishing seamless hosiery owned by others) of \$12 million.

Industry 2252 shipments of seamless hosiery in 1954 represented 96 percent of its total product shipments (primary and secondary). In 1947, this primary product specialization ratio was also 96 percent. Secondary products shipped by Industry 2252 in 1954 consisted mainly of full-fashioned hosiery, \$7 million, and knit yarns spun on the cotton system, \$2 million.

Industry 2252 shipments of seamless hosiery represented 93 percent of these products, valued at \$430 million shipped by all industries. This percentage in 1947 was 91 percent. The other

principal industry shipping seamless hosiery in 1954 was Industry 2251, Full-Fashioned Hosiery Mills, \$24 million.

As described above for Industry 2251, but to a lesser extent, there is also some overstatement in the figures shown for total value of shipments and total cost of materials for the seamless hosiery industry which are brought about by the same factors. The duplication in the total value of shipments of Industry 2252 caused by the inclusion of data on greige goods and receipts for contract work was approximately 10 percent in 1954 as compared with approximately 8 percent in 1947. In the case of total cost of material, the overstatement in the 1954 data was less than 10 percent.

#### 2253--Knit Outerwear Mills

This industry comprises establishments primarily engaged in knitting outerwear, or in manufacturing outerwear from knit fabric produced in the same establishment. Establishments primarily engaged in hand knitting outerwear for the trade are included in this industry. Important products of this industry include sweaters, bathing suits, dresses, and headwear. Establishments primarily engaged in manufacturing gloves and mittens are classified in Industry 2255, Group 238, or Group 315, and those manufacturing outerwear from woven fabric or purchased knit fabric in Major Group 23, Apparel and Related Products. For a detailed list of primary products of Industry 2253, refer to Table 6A, product codes 2253111 to 2253355, and also selected product codes in the 23--series shown under the Knit Outerwear Mills products groupings.

The value of products of Industry 2253, Knit Outerwear Mills, in 1954 totaled \$544 million. This included output of primary products (knit outerwear), valued at \$434 million, production of secondary products valued at \$33 million, and miscellaneous receipts (mainly knitting on materials owned by others) of \$77 million.

Industry 2253 output of knit outerwear in 1954 represented 93 percent of its total production (primary and secondary). In 1947, this primary product specialization ratio was 91 percent. Secondary products made by Industry 2253 in 1954 consisted mainly of men's and boys' underwear, \$7 million, and circular knit fabrics, \$6 million.

Industry 2253 output of knit outerwear in 1954 represented 65 percent of these products, valued at \$666 million, produced by all industries. The coverage ratio in 1947 was 82 percent. Other industries producing knit outerwear consisted mainly of Industry 2321, Men's Dress Shirts and Nightwear, \$29 million; Industry 2339, Women's Outerwear, N.E.C., \$75 million; and Industry 2369, Children's Outerwear, N.E.C. \$37 million. As indicated above, knit outerwear is also primary to industries in Major Group 23, Apparel and Related Products, when made on a cut-sew-basis from fabrics knit in other establishments. This accounts for the somewhat lower than usual coverage ratio for Industry 2253.

#### 2254--Knit Underwear Mills

This industry comprises establishments primarily engaged in knitting underwear and nightwear, or in manufacturing underwear and nightwear from knit fabric produced in the same establishment. Establishments primarily engaged in manufacturing underwear and nightwear from woven fabric or purchased knit fabric are classified in Major Group 23, Apparel and Related Products. For a detailed list of primary products of Industry 2254, refer to Table 6A, product codes 2321261 to 2321271; 2322021 to 2322071; 2341131 to 2341189; and 2341251 to 2341289.

The value of products of Industry 2254, Knit Underwear Mills, in 1954 totaled \$256 million. This included output of primary products (knit underwear) valued at \$222 million, production of secondary products valued at \$32 million, and miscellaneous receipts of \$3 million.

Industry 2254 output of knit underwear in 1954 represented 88 percent of its total products made (primary and secondary). In 1947, this primary product specialization ratio was 87 percent. Secondary products made by Industry 2254 in 1954 consisted principally of knit outerwear sport shirts, \$20 million.

Industry 2254 production of knit underwear in 1954 represented 39 percent of these products, valued at \$575 million produced by all industries. This coverage ratio in 1947 was 70 percent. Other industries shipping knit underwear consisted



mainly of Industry 2341, Women's and Children's Underwear, Industry 2322, Men's and Boys' Underwear, and Industry 2253, Knit Outerwear.

The decrease of 31 percentage points in the coverage ratio between the two years reflects the sharp increase by 1954 in the output of these products on a cut-and-sew basis from fabrics knit in other establishments. As indicated above, knit underwear is also primary to industries in Major Group 23, Apparel and Related Products which accounts for the relatively low coverage ratio for the output of these products by Industry 2254.

#### 2255--Knit Glove Mills

This industry comprises establishments primarily engaged in knitting or crocheting gloves and mittens, or in manufacturing gloves and mittens from knit fabric produced in the same establishment. Establishments primarily engaged in manufacturing gloves and mittens from purchased knit fabric are classified in Group 238, Miscellaneous Apparel. For a detailed list of primary products of Industry 2255, refer to Table 6A, product codes 2381011 to 2382071.

The value of products of Industry 2255, Knit Glove Mills, in 1954 totaled \$12 million. This included output of primary products (knit gloves) valued at \$10 million, production of secondary products valued at \$2 million, and a negligible amount of miscellaneous receipts.

Industry 2255 output of knit gloves in 1954 represented 86 percent of its total products made (primary and secondary). In 1947, this primary product specialization ratio was 91 percent. Industry 2255 production of knit gloves in 1954 represented 20 percent of these products, valued at \$50 million, produced by all industries. This coverage ratio in 1947 was 34 percent. Other industries producing knit gloves consisted mainly of Industry 2381, Fabric Dress Gloves, \$27 million, and Industry 2382, Fabric Work Gloves, \$9 million. The decrease of 15 percentage points in the coverage ratio between the two years reflects the relative sharp increase by 1954 in the output of these products on a cut-and-sew basis from fabrics knit in other establishments. As indicated above, knit gloves are also primary to Industries 2381 and 2382 which accounts for the relatively low coverage ratio for the output of these products by Industry 2255.

#### 2256--Knit Fabric Mills

This industry comprises establishments primarily engaged in knitting tubular or flat fabric (including warp-knit mosquito netting) and in dyeing or finishing knit fabric. For a detailed list of primary products of Industry 2256, refer to Table 6A, product codes 2256111 to 2256298.

Included in Industry 2256 are knit fabric mills operated by multi-plant companies which transfer the knit cloth produced to other plants of the same company for further fabrication into such products as knit underwear and gloves. The plants cutting and sewing the knit cloth are classified in one of the industries in Major Group 23, Apparel and Related Products. On the other hand, if the knitting mill is integrated in that it both makes the knitted cloth and also produces knitted apparel, it is classified in one of the knitting industries described above. Data on the output of such knit fabrics by the latter group of plants are not included in the figures shown in Table 6A for this industry.

The value of shipments of Industry 2256, Knit Fabric Mills, in 1954 totaled \$377 million. This included shipments of primary products (knit fabric) valued at \$321 million, shipments of secondary products valued at \$19 million, and miscellaneous receipts (mainly contract work on materials owned by others) of \$38 million.

Industry 2256 shipments of knit fabric in 1954 represented 95 percent of its total product shipments. In 1947, this primary product specialization ratio was 93 percent. Industry 2256 shipments of knit fabric in 1954 represented 91 percent of these products, valued at \$352 million, shipped by all industries. This coverage ratio in 1947 was 88 percent. Other industries shipping knit fabric consisted mainly of Industry 2234, Synthetic Broad-Woven Fabrics, \$11 million; Industry 2253, Knit Outerwear Mills, \$6 million; and Industry 2254, Knit Underwear Mills, \$10 million.

The figures shown in Table 6A for specific types of knitted fabrics are slightly overstated due to the inclusion of shipments of some greige goods in the totals which should represent "finished goods" shipped. From information obtained from the Bureau's 1955 survey on Knit Cloth For Sale, it is estimated that total shipments of greige goods in 1954 amounted to approximately 12 million pounds. Approximately one-third of this quantity was included in the 1954 Census figures, principally in the data for underwear and nightwear fabrics. An exact measure of the amount of greige goods erroneously reported as "finished goods," however, cannot be determined. An unknown quantity of greige goods included in the underwear and nightwear totals may properly appear there because they were shipped to consumers in other industries and, therefore, would not duplicate the shipments of "finished" knitted fabrics.

#### 2259--Knitting Mills, N.E.C.

This industry comprises establishments primarily engaged in knitting articles not elsewhere classified, such as knit curtains, washcloths, dishcloths, and towels. Establishments primarily engaged in manufacturing from purchased fabrics, curtains and draperies, are classified in Industry 2391, Curtains and Draperies, and housefurnishings such as sheets, pillowcases, blankets, bedspreads, etc., are classified in Industry 2392, Housefurnishings. For a detailed list of primary products of Industry 2259, refer to Table 6A, product codes 2259011 to 2259098.

The value of shipments of Industry 2259, Knitting Mills, N.E.C., in 1954 totaled \$16 million. This included shipments of primary products (knitting mill products, n.e.c.) valued at \$10 million, shipments of secondary products valued at \$6 million, and a negligible amount of miscellaneous receipts.

Industry 2259 shipments of knitting mill products, n.e.c., in 1954 represented 62 percent of its total product shipments (primary and secondary). In 1947, this primary product specialization ratio was 98 percent. The decrease of 36 percentage points in the specialization ratio reflects the increased shipments of products which are not primary to Industry 2259.

Industry 2259 shipments of knitting mill products, n.e.c., in 1954 represented 75 percent of those valued at \$13 million shipped by all industries. This coverage ratio in 1947 was 89 percent.

The general statistics (employment, payrolls, value of shipments, cost of materials, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products, and, for that matter, their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (Tables 1-4) with product statistics (Table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in Table 5A which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry made as secondary products by establishments classified in other industries.



## KNITTING MILLS

22C-5

Table 1.—GENERAL STATISTICS FOR THE UNITED STATES: 1954 AND EARLIER YEARS

(For explanation of column captions see Introduction)

Industry and census year	Establishments, number	All employees		Production workers		Value added by manufacture <sup>2</sup> (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments <sup>3</sup> (\$1,000)
		Number <sup>1</sup>	Payroll (\$1,000)	Number <sup>1</sup>	Wages (\$1,000)			
Full-fashioned hosiery mills (S.I.C. 2251):								
1954.....	789	60,150	178,454	55,023	151,619	266,993	(5)	(5)
1953 <sup>4</sup> .....	(NA)	68,008	205,053	60,886	173,397	308,015		
1952 <sup>4</sup> .....	(NA)	65,469	190,410	57,603	161,512	293,038		
1951 <sup>4</sup> .....	(NA)	74,833	215,859	66,832	184,834	317,282		
1950 <sup>4</sup> .....	(NA)	77,322	220,291	70,945	189,909	383,778		
1949 <sup>4</sup> .....	(NA)	73,627	204,047	67,243	178,802	313,084		
1947.....	738	70,034	178,062	65,148	156,320	319,369		
1939.....	499	103,902	117,443	97,200	100,775	156,047		
1937 <sup>6</sup> .....	354	(NA)	(NA)	89,358	98,755	141,005		
Seamless-hosiery mills (S.I.C. 2252):								
1954.....	609	63,350	135,481	59,656	117,455	202,477	226,773	429,251
1953 <sup>4</sup> .....	(NA)	63,469	133,726	59,739	117,356	195,893	207,539	403,432
1952 <sup>4</sup> .....	(NA)	61,676	129,101	58,110	112,192	189,685	220,751	410,436
1951 <sup>4</sup> .....	(NA)	58,297	118,539	55,113	102,155	172,908	219,361	392,269
1950 <sup>4</sup> .....	(NA)	61,779	116,098	58,396	101,658	168,065	187,706	355,771
1949 <sup>4</sup> .....	(NA)	58,369	100,072	54,211	85,563	143,389	153,381	296,770
1947.....	618	64,913	105,711	61,443	91,939	163,899	163,108	327,007
1939.....	433	65,353	48,873	61,852	41,862	72,090	66,575	138,665
1937 <sup>6</sup> .....	391	(NA)	(NA)	61,102	37,509	60,652	62,974	123,626
Total for hosiery mills: <sup>6</sup>								
1954.....	1,398	123,500	313,935	114,679	269,074	469,470	481,752	951,222
1953 <sup>4</sup> .....	(NA)	131,477	338,779	120,625	290,763	503,908	464,217	968,125
1952 <sup>4</sup> .....	(NA)	127,145	319,511	115,713	273,704	482,723	474,836	957,559
1951 <sup>4</sup> .....	(NA)	133,130	334,398	121,945	286,989	490,190	486,269	976,459
1950 <sup>4</sup> .....	(NA)	139,101	336,389	129,341	291,567	551,843	456,515	1,008,358
1949 <sup>4</sup> .....	(NA)	131,996	304,119	121,454	264,365	456,473	383,626	840,099
1947.....	1,356	134,947	283,773	126,591	248,259	483,268	375,258	858,526
1939.....	932	169,255	166,316	159,052	142,637	228,137	187,698	415,835
1937.....	745	157,243	151,431	150,460	136,264	201,657	159,918	361,575
1935 <sup>7</sup> .....	695	144,399	135,709	138,021	121,377	168,625	146,562	315,187
1933.....	614	122,671	90,845	117,919	82,959	143,354	120,356	263,710
1931.....	621	(NA)	(NA)	112,374	95,129	175,158	156,051	331,209
1929.....	730	136,648	162,193	129,542	140,079	269,834	258,866	528,700
1927.....	672	119,014	132,201	112,842	114,678	221,249	235,664	456,913
1925.....	683	110,550	109,088	103,930	93,383	183,420	237,760	421,180
1923 <sup>8</sup> .....	721	103,367	93,507	96,957	78,762	156,320	233,953	390,273
Knit outerwear mills (S.I.C. 2253):								
1954.....	1,083	46,403	139,182	41,345	104,490	231,702	312,431	544,129
1953 <sup>4</sup> .....	(NA)	49,371	149,111	44,005	109,941	(NA)	(NA)	(NA)
1952 <sup>4</sup> .....	(NA)	50,327	140,100	43,832	107,641	234,712	294,644	529,356
1947.....	1,199	34,543	80,674	30,383	59,590	145,370	185,104	330,474
1939 <sup>9</sup> .....	725	(NA)	(NA)	23,437	19,300	46,674	60,496	107,170
1937 <sup>6</sup> .....	669	(NA)	(NA)	26,139	21,554	47,311	59,525	106,836
Knit glove mills (S.I.C. 2255):								
1954.....	29	2,025	4,871	1,855	3,966	6,192	5,595	11,787
1947.....	44	4,798	8,509	4,555	7,522	13,446	10,986	24,318
1939.....	20	5,839	4,384	5,574	3,839	7,387	4,999	12,386
1937 <sup>6</sup> .....	15	(NA)	(NA)	4,626	2,928	6,035	4,181	10,216
Total for knit outerwear and knit glove mills: <sup>6</sup>								
1954.....	1,112	48,428	144,053	43,200	108,456	237,894	318,026	555,916
1947.....	1,243	39,341	89,183	34,938	67,112	158,816	196,090	354,792
1939.....	745	(NA)	(NA)	29,011	23,139	54,061	65,495	119,556
1937 <sup>10</sup> .....	684	(NA)	(NA)	30,765	24,482	53,346	63,706	117,052
1935.....	758	38,908	37,912	35,455	30,170	59,856	71,599	131,455
1933.....	601	29,328	23,463	26,908	19,574	41,866	50,681	92,547
1931.....	710	(NA)	(NA)	24,142	24,744	52,503	59,070	111,573
1929.....	757	32,229	38,866	28,968	28,934	68,872	78,377	147,249
1927.....	775	27,647	33,481	24,662	26,200	59,168	66,773	125,941
1925.....	874	31,454	36,332	27,986	27,738	62,760	80,742	143,502
1923 <sup>8</sup> .....	1,128	46,490	52,293	41,503	40,824	91,439	117,319	208,758
Knit underwear mills (S.I.C. 2254):								
1954.....	149	31,262	77,501	28,248	63,095	110,591	145,698	256,290
1953 <sup>4</sup> .....	(NA)	40,735	99,398	36,790	80,700	156,020	213,354	369,374
1952 <sup>4</sup> .....	(NA)	35,551	88,633	32,501	73,052	145,038	190,480	334,046
1951 <sup>4</sup> .....	(NA)	38,960	91,436	35,466	74,646	147,882	243,298	389,708
1950 <sup>4</sup> .....	(NA)	37,672	83,435	33,990	68,525	131,699	169,188	299,415
1947.....	172	40,579	80,520	37,546	67,990	134,399	163,421	295,411
1939 <sup>9</sup> .....	184	(NA)	(NA)	37,478	26,693	50,099	59,699	109,798
1937 <sup>10</sup> .....	186	(NA)	(NA)	41,237	29,328	55,812	65,492	121,304
1935.....	186	37,529	28,918	34,930	23,445	42,125	53,929	96,054
1933.....	195	38,070	25,599	35,915	22,251	47,269	44,931	92,200

See footnotes at end of table.

## MANUFACTURES--INDUSTRY STATISTICS

Table 1.—GENERAL STATISTICS FOR THE UNITED STATES: 1954 AND EARLIER YEARS—Continued

(For explanation of column captions see Introduction)

Industry and census year	Establishments, number	All employees		Production workers		Value added by manufacture <sup>2</sup> (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments <sup>3</sup> (\$1,000)
		Number <sup>1</sup>	Payroll (\$1,000)	Number <sup>1</sup>	Wages (\$1,000)			
Knit underwear mills—Continued								
1931.....	218	(NA)	(NA)	31,951	22,545	44,915	44,938	89,853
1929.....	251	44,336	40,876	41,487	32,928	69,782	81,060	150,842
1927.....	285	49,369	46,919	46,227	39,183	81,173	92,250	173,423
1925.....	298	51,268	47,430	48,328	40,145	75,943	112,627	188,570
1923 <sup>6</sup> .....	326	51,815	47,813	48,552	39,932	74,905	107,450	182,355
Knit fabric mills (S.I.C. 2256):								
1954.....	340	16,812	57,878	14,680	44,621	113,122	264,262	377,383
1953 <sup>4</sup> .....	(NA)	15,185	52,123	13,384	39,536	99,536	265,297	364,833
1952 <sup>4</sup> .....	(NA)	17,479	58,816	15,528	46,326	116,529	291,955	408,525
1951 <sup>4</sup> .....	(NA)	16,110	50,349	14,343	38,655	91,333	249,409	340,783
1947.....	306	13,460	34,681	11,849	26,755	70,202	128,139	197,454
1939 <sup>6</sup> .....	143	(NA)	(NA)	9,548	9,054	21,448	39,363	60,811
Knitting mills, n.e.c. (S.I.C. 2259):								
1954.....	46	1,359	3,950	1,167	2,846	7,059	8,746	15,805
1947.....	44	976	2,213	872	1,738	4,278	6,309	10,587
1939 <sup>6</sup> .....	85	(NA)	(NA)	1,539	1,240	3,285	5,143	8,428
Total for knit fabric mills and knitting mills, n.e.c.: <sup>6</sup>								
1954.....	386	18,171	61,828	15,847	47,467	120,181	273,008	393,188
1947.....	350	14,436	36,894	12,721	28,493	74,480	134,448	208,041
1939.....	228	(NA)	(NA)	11,087	10,294	24,733	44,506	69,239
1937.....	213	12,615	13,514	11,360	10,558	23,703	44,298	68,001
1935.....	213	12,517	12,097	11,370	9,486	20,547	43,483	64,030
1933.....	167	9,699	8,579	8,956	7,246	16,504	33,388	49,892
1931.....	157	(NA)	(NA)	7,544	7,171	16,415	36,628	53,043
1929.....	150	9,304	11,626	8,491	8,773	20,543	52,382	72,925
1927.....	137	7,222	10,131	6,552	8,103	19,769	40,574	60,343
1925.....	132	7,152	9,630	6,424	7,417	18,190	38,518	56,708
1923 <sup>6</sup> .....	148	8,061	11,073	7,232	8,753	20,810	45,981	66,791

NA Not available.

<sup>1</sup>For the period 1949-1954, figures are based on employment for the payroll periods ended nearest the 15th of March, May, August and November. For 1947, they represent the average of 12 monthly figures. For earlier years, the production worker average was calculated as in 1947, but the figure for all employees represents the sum of the annual average number of production workers and the number of nonproduction workers reported for one payroll period (usually in October).

<sup>2</sup>Value of products less cost of materials, supplies, fuel, electric energy and contract work. See Introduction, "Value Added by Manufacture." For the "Knit underwear mills," "Knit-fabric mills," and "Knit glove mills" industries, 1947 value added by manufacture does not equal the published value of shipments less cost of materials, etc. because an estimated value of production was used in the calculation in place of value of shipments. Since the 1949-1952 estimates were derived from 1947 base totals, the same inequality may exist for these years.

<sup>3</sup>For 1947-1954, value of shipments; for all other years, value of production. See Introduction, "Value of Shipments."

<sup>4</sup>The figures for 1949-1953 represent estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period. Estimates with a standard error in excess of 15 percent generally have been omitted from this table.

<sup>5</sup>Omitted because of duplication in cost of materials and value of shipments. See text for this industry.

<sup>6</sup>Prior to 1937 "Full-fashioned hosiery mills" and "Seamless hosiery mills" constituted a single industry and "Knit outerwear mills" and "Knit glove mills" also were combined in one industry. "Knit fabric mills" and "Knitting mills n.e.c." were a single industry prior to 1939. The two related industries have in each case been combined in a portion of the table in order that data could be shown for the period 1923-1954.

<sup>7</sup>The figures for 1935-1954 include data for dyers and finishers of hosiery knitted by others, whereas the figures for earlier years do not include such data.

<sup>8</sup>Prior to 1923, "Hosiery mills," "Knit outerwear mills and knit glove mills," "Knit underwear mills," and "Knit-fabric mills and knitting mills, n.e.c." constituted a single classification, "Knit goods." Comparable data are therefore not available for earlier years.

<sup>9</sup>The figures for 1939 are not entirely comparable with those for earlier years. Value added by manufacture for 1939 on a basis comparable with earlier years was \$45.3 million for "Knit outerwear mills" and \$51.7 million for "Knit underwear mills."

<sup>10</sup>Data for establishments that cut and stitch products from knit cloth made in separate mills of integrated companies are included in the figures for 1937 and 1939, but not for other years. Value added in 1937, excluding data for such establishments, was \$50.8 million for "Knit outerwear mills and knit glove mills" and \$54.3 million for "Knit underwear mills."

## KNITTING MILLS

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Table 2.—GENERAL STATISTICS BY REGIONS AND STATES: 1954 AND 1947  
(For explanation of column captions see Introduction)

Industry, region, and State <sup>1</sup>	1954											1947	
	Establishments, number		All employees		Production workers			Value added by manufacture	Cost of materials, etc.	Value of shipments	Capital expenditures, new	All employees, number	Value added by manufacture
	Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
Full-fashioned hosiery mills (S.I.C. 2251), total	789	420	60,150	178,454	55,023	101,925	151,619	266,993			7,991	70,034	319,369
New England.....	9	8	1,261	3,643	1,089	2,113	2,814	5,044			135	1,491	6,287
Middle Atlantic.....	438	179	18,425	54,364	16,755	30,289	45,016	78,797			2,328	29,300	144,939
New York.....	28	9	1,250	3,930	1,093	2,067	2,919	5,829			105	1,170	5,814
New Jersey.....	67	15	984	2,840	886	1,681	2,449	4,032			297	3,311	15,101
Pennsylvania.....	343	155	16,190	47,593	14,776	26,540	39,647	68,935			1,925	24,819	124,024
East North Central.....	21	14	2,876	9,639	2,346	4,412	6,587	15,349			127	7,175	30,755
Indiana.....	4	4	1,169	3,897	837	1,533	2,271	5,326			33	2,777	11,470
Wisconsin.....	8	5	1,099	3,807	982	1,906	2,791	7,036			31	3,263	13,712
West North Central.....	6	5	650	1,918	501	904	1,442	3,193			13	1,057	4,045
South Atlantic.....	255	168	28,824	84,685	26,936	50,650	75,070	126,573	(2)	(2)	3,645	(D)	(D)
Maryland.....	8	4	321	1,002	294	592	874	1,161			14	630	(D)
Virginia.....	24	20	2,831	8,936	2,607	4,984	7,859	12,398			314	2,801	11,940
North Carolina.....	165	116	22,396	65,013	21,013	39,385	57,914	97,910			2,990	16,481	71,511
South Carolina.....	15	12	895	2,833	823	1,637	2,417	4,257			115	609	2,510
Georgia.....	19	12	2,012	5,845	1,859	3,421	5,081	9,114			167	2,237	8,841
East South Central.....	38	33	6,905	20,306	6,333	11,534	17,626	31,044			1,272	(D)	(D)
Tennessee.....	20	17	3,789	11,004	3,460	6,088	9,313	16,632			247	4,449	18,124
Mississippi.....	11	9	1,584	4,424	1,476	2,768	3,921	6,925			393	1,058	4,157
West South Central.....	7	7	771	2,392	686	1,261	1,865	3,710			161	441	(D)
Pacific.....	15	6	435	1,504	373	759	1,195	3,279			13	440	2,086
California.....	15	6	435	1,504	373	759	1,195	3,279			13	440	2,086
Seamless hosiery mills (S.I.C. 2252), total	609	444	63,350	135,481	59,656	105,905	117,455	202,477	226,773	429,251	12,986	64,913	163,899
New England.....	22	16	1,148	2,933	1,020	1,850	2,197	4,261	4,296	8,558	366	1,647	4,457
New Hampshire.....	11	8	497	1,208	443	813	909	1,735	1,983	3,718	198	630	1,936
Massachusetts.....	4	3	328	886	280	482	631	1,171	1,181	2,353	73	587	1,383
Middle Atlantic.....	86	57	5,435	12,980	4,936	8,853	10,449	19,947	18,399	38,346	951	8,026	22,507
Pennsylvania.....	67	45	4,476	10,289	4,070	7,239	8,312	15,481	15,093	30,575	886	6,552	17,458
East North Central.....	18	12	2,816	6,907	2,551	4,601	5,466	11,072	12,449	23,521	305	3,614	10,173
Wisconsin.....	10	7	1,370	3,108	1,243	2,176	2,383	5,020	4,269	9,290	124	1,322	3,333
West North Central.....	3	3	216	474	203	370	427	743	602	1,345	62	127	357
South and West.....	480	356	53,732	112,187	50,944	90,229	98,914	166,453	191,025	357,478	11,300	51,499	126,405
Virginia.....	12	7	1,501	3,208	1,433	2,656	2,858	4,666	6,002	10,669	246	1,358	2,992
North Carolina.....	309	224	29,849	64,133	28,415	49,733	56,714	98,506	110,269	208,776	7,363	26,713	70,036
Georgia.....	39	31	5,394	10,563	5,086	9,032	9,235	13,818	13,719	27,538	677	6,205	15,924
Kentucky.....	4	4	928	1,769	893	1,618	1,635	2,182	3,154	5,336	165	725	(D)
Tennessee.....	70	56	10,748	21,882	10,198	18,561	19,429	32,497	36,033	68,530	2,001	10,580	22,816
Alabama.....	16	11	1,444	2,693	1,382	2,387	2,401	3,688	2,826	6,515	257	1,307	2,331
Knit outerwear mills (S.I.C. 2253), total	1,083	529	46,403	139,182	41,345	75,955	104,490	231,702	312,431	544,129	9,853	34,543	145,370
New England.....	53	33	4,063	11,460	3,660	6,950	8,820	16,727	21,431	38,158	726	3,136	12,738
New Hampshire.....	7	5	809	2,115	744	1,411	1,637	3,425	4,758	8,184	(D)	153	(D)
Massachusetts.....	28	15	2,680	7,757	2,384	4,485	5,854	10,641	15,032	25,675	464	2,405	10,331
Middle Atlantic.....	875	407	31,665	97,617	28,373	51,915	74,871	171,221	238,204	409,421	7,043	23,569	102,474
New York.....	655	264	18,779	61,165	16,561	30,006	44,966	114,011	173,514	287,525	4,112	14,909	72,084
New Jersey.....	108	58	4,113	11,931	3,801	6,730	10,150	18,740	20,747	39,488	851	2,755	9,974
Pennsylvania.....	112	85	8,772	24,521	8,010	15,178	19,753	38,469	43,942	82,408	2,078	5,905	20,416
East North Central.....	47	26	3,326	10,644	2,958	5,439	7,294	16,891	18,380	35,272	(D)	(D)	(D)
Ohio.....	20	14	2,044	6,777	1,835	3,464	4,667	10,972	13,941	24,914	413	1,577	6,930
Illinois.....	13	4	279	811	248	417	582	1,353	1,117	2,471	(D)	624	2,106
Michigan.....	4	1	102	257	83	156	173	461	291	753	...	(D)	(D)
Wisconsin.....	10	7	901	2,799	790	1,402	1,870	4,104	3,029	7,133	55	1,291	4,263



## MANUFACTURES—INDUSTRY STATISTICS

Table 2.—GENERAL STATISTICS BY REGIONS AND STATES: 1954 AND 1947—Continued

(For explanation of column captions see Introduction)

Industry, region, and State <sup>1</sup>	1954										1947		
	Establishments, number		All employees		Production workers			Value added by manufacture	Cost of materials, etc.	Value of shipments	Capital expenditures, new	All employees, number	Value added by manufacture
	Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)		(\$1,000)
Knit outerwear mills, etc.—Continued													
West North Central.....	9	6	432	1,194	351	696	864	1,973	3,136	5,110	(D)	389	(D)
Minnesota.....	9	6	432	1,194	351	696	864	1,973	3,136	5,110	(D)	389	(D)
South.....	35	43	4,661	10,102	4,320	7,746	8,068	13,352	23,159	36,511	944	1,058	2,159
Virginia.....	11	8	1,913	3,759	1,775	2,995	3,050	5,745	7,080	12,836	275	339	683
West.....	64	14	2,253	8,163	1,682	3,207	4,571	11,536	8,119	19,656	548	2,670	11,843
"Manufacturers" (S.I.C. 2253, Pt. A), total..	550	269	30,052	87,659	26,854	49,715	66,726	134,454	164,284	298,739	5,766		
New England.....	35	18	2,435	6,983	2,170	4,165	5,302	10,042	15,719	25,762	543		
Massachusetts.....	23	10	1,487	4,612	1,301	2,519	3,377	6,528	10,828	17,357	319		
Middle Atlantic.....	380	185	17,454	51,928	15,802	29,193	41,459	83,152	100,631	183,783	3,178		
New York.....	251	95	8,522	26,084	7,617	13,858	20,362	42,694	52,663	95,358	1,160		
New Jersey.....	52	27	2,286	6,920	2,095	3,713	5,786	10,669	13,311	23,981	361		
Pennsylvania.....	77	63	6,645	18,923	6,089	11,621	15,310	29,788	34,656	64,444	1,656		
North Central.....	49	30	3,487	11,042	3,092	5,795	7,730	17,186	19,020	36,206	561		
Michigan.....	4	1	102	257	83	156	173	461	291	753	...		
Wisconsin.....	10	7	901	2,799	790	1,402	1,870	4,104	3,029	7,133	55		
South.....	29	23	4,503	9,700	4,185	7,480	7,801	12,817	21,058	33,876	933		
West.....	57	13	2,171	8,004	1,604	3,080	4,433	11,255	7,854	19,110	548		
Washington.....	8	1	90	190	77	135	156	347	330	678	3	(NA)	(NA)
"Converters" (S.I.C. 2253, Pt. B), total..	147	47	3,689	15,197	2,474	3,958	5,772	42,227	130,944	173,169	785		
Northeast.....	140	44	3,457	14,464	2,308	3,711	5,481	40,691	126,632	167,321	(D)		
New York.....	125	38	2,412	11,213	1,471	2,251	3,515	33,949	108,908	142,897	615		
Pennsylvania.....	7	3	346	1,207	252	403	567	2,766	7,288	10,051	10		
All other divisions.....	7	3	231	733	166	247	291	1,535	4,310	5,847	(D)		
"Contractors" (S.I.C. 2253, Pt. C), total..	386	213	12,661	36,326	12,016	22,281	31,990	55,019	17,202	72,221	3,301		
Northeast.....	373	209	12,381	35,702	11,753	21,795	31,448	54,060	16,651	70,712	(D)		
New York.....	279	143	7,844	23,867	7,472	13,897	21,087	37,367	11,942	49,310	2,336		
Pennsylvania.....	28	21	1,781	4,390	1,668	3,153	3,876	5,915	1,997	7,912	412		
All other divisions.....	13	4	280	623	262	484	541	958	549	1,508	(D)		
Knit underwear mills (S.I.C. 2254), total..	149	133	31,262	77,501	28,248	51,204	63,095	110,591	145,698	256,290	2,982	40,579	134,399
New England.....	10	10	845	2,124	714	1,331	1,629	2,581	2,573	5,155	56	3,029	8,994
Massachusetts.....	5	5	392	955	306	546	717	1,015	915	1,930	28	1,506	4,973
Middle Atlantic.....	92	87	11,581	27,409	10,550	18,653	22,635	42,286	59,809	102,095	678	17,532	62,253
Pennsylvania.....	66	61	8,456	19,460	7,807	13,855	16,420	31,060	44,950	76,010	504	10,315	36,358
North Central.....	12	10	3,869	12,634	3,057	5,723	8,252	12,107	16,704	28,811	270	6,386	20,677
South and West.....	35	26	14,967	35,334	13,927	25,497	30,578	53,615	66,612	120,229	1,976	13,632	42,475
North Carolina.....	11	10	4,846	12,199	4,463	7,996	10,120	17,709	22,358	40,067	337	4,239	13,504
Georgia.....	6	6	2,444	5,699	2,279	4,233	5,040	9,041	9,266	18,308	1,008	1,590	6,991
Tennessee.....	5	5	3,858	9,321	3,608	6,562	8,118	13,349	12,482	25,831	265	4,712	(D)
Knit glove mills (S.I.C. 2255), total..	29	20	2,025	4,871	1,855	3,258	3,966	6,192	5,595	11,787	202	4,798	13,446
Northeast.....	22	14	1,295	3,123	1,170	2,035	2,460	3,396	3,267	6,664	54	3,868	11,210
All other divisions.....	7	6	730	1,748	684	1,223	1,505	2,795	2,327	5,122	147	930	2,236
Knit fabric mills (S.I.C. 2256), total..	340	153	16,812	57,878	14,680	30,560	44,621	113,122	264,262	377,383	6,214	13,460	70,202
New England.....	41	24	2,804	10,383	2,389	5,385	7,678	22,007	52,475	74,483	839	1,498	8,593
Massachusetts.....	23	13	1,508	5,581	1,245	2,617	3,758	12,422	32,906	45,328	314	771	3,907
Middle Atlantic.....	233	91	8,442	31,705	7,258	15,092	23,928	59,379	123,287	182,665	2,916	6,306	33,596
New York.....	144	50	4,013	15,264	3,459	7,284	11,615	31,403	63,016	94,418	1,504	3,535	19,018
New Jersey.....	32	12	1,051	5,004	931	2,039	3,971	8,400	15,380	23,781	520	776	5,171
Pennsylvania.....	57	29	3,377	11,437	2,867	5,768	8,341	19,575	44,890	64,466	891	1,995	9,407
North Central.....	10	5	288	1,167	229	459	788	2,452	2,816	5,268	132	489	1,562
South Atlantic.....	42	25	3,233	9,275	2,879	5,780	7,462	17,586	64,225	81,812	1,951		
North Carolina.....	31	17	2,250	6,375	2,042	4,181	5,212	12,555	43,986	56,541	(D)		
South Carolina.....	4	3	342	935	299	589	721	782	7,844	8,627	44		
East South Central.....	9	7	1,984	5,124	1,874	3,749	4,583	11,026	20,024	31,050	365		
Pacific.....	5	1	59	222	49	93	178	670	1,433	2,103	9		

See footnotes at end of table.

## KNITTING MILLS

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Table 2.—GENERAL STATISTICS BY REGIONS AND STATES: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Industry, region, and State <sup>1</sup>	1954										1947			
	Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)	
	Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)							
Knit fabric mills "Manufacturers" (S.I.C. 2256, Pt. A), total.....	234	98	12,218	40,744	10,739	21,611	31,362	81,739	206,500	288,239	4,530	}	(NA)	(NA)
Northeast.....	178	67	7,169	26,455	6,150	12,398	19,493	52,568	129,804	182,371	2,330			
Massachusetts.....	12	8	923	3,495	763	1,620	2,357	8,623	22,760	31,384	177			
New York.....	97	31	2,530	9,414	2,146	4,242	6,853	20,280	45,461	65,740	818			
New Jersey.....	24	8	678	3,143	616	1,317	2,532	5,611	14,445	20,057	354			
Pennsylvania.....	33	14	2,616	8,821	2,262	4,456	6,630	15,240	38,065	53,305	727			
North Central and South.....	51	30	4,989	14,066	4,537	9,118	11,689	28,500	75,262	103,764	2,190			
North Carolina.....	25	12	1,870	5,323	1,693	3,509	4,359	11,181	37,908	49,090	(D)			
South Carolina.....	4	3	342	935	299	589	721	782	7,844	8,627	44			
Pacific.....	5	1	59	222	49	93	178	670	1,433	2,103	9			
"Converters" (S.I.C. 2256, Pt. B), total..	25	10	1,230	4,477	954	2,150	2,737	10,554	48,022	58,576	515			
New York.....	14	1	145	852	54	110	201	1,496	12,750	14,247	45			
All other States.....	11	9	1,085	3,625	900	2,040	2,536	9,058	35,272	44,329	470			
"Contractors" (S.I.C. 2256, Pt. C), total..	81	45	3,363	12,656	2,986	6,798	10,521	20,828	9,738	30,567	1,169			
New York.....	33	18	1,338	4,997	1,258	2,931	4,561	9,627	4,803	14,431	641			
New Jersey.....	8	4	373	1,861	315	722	1,439	2,789	934	3,724	166			
All other States.....	40	23	1,652	5,798	1,413	3,145	4,521	8,412	4,001	12,412	362			
Knitting mills, n.e.c. (S.I.C. 2259), total..	46	14	1,359	3,950	1,167	2,218	2,846	7,059	8,746	15,805	44	976	4,278	
Northeast.....	35	9	811	2,563	705	1,362	1,873	4,407	4,937	9,345	34	617	2,863	
New York.....	23	3	272	900	237	450	661	1,767	1,966	3,733	20	360	(D)	
Pennsylvania.....	7	3	296	875	245	439	587	1,386	1,362	2,749	9	153	(D)	
All other divisions.....	11	5	547	1,386	461	854	972	2,650	3,809	6,460	9	359	1,415	

Note: Detailed figures may not add to the totals because of independent rounding.

<sup>1</sup> D Withheld to avoid disclosing figures for individual companies.<sup>2</sup> General statistics for some producing States are not shown separately in the table (see INTRODUCTION "Confidentiality of Data for Individual Companies"). Such States are shown below with the number of establishments in each State for 1954 and, in parentheses, the number of employees or the employment-size range for that State for 1954:

S.I.C. 2251, Full-fashioned Hosiery Mills: New England—New Hampshire, 3 (500-999); Massachusetts, 6 (500-999); East North Central—Illinois, 8 (500-999); Michigan, 1 (20-99); West North Central—Minnesota, 1 (250-499); Iowa, 2 (100-249); Missouri, 2 (100-249); Nebraska, 1 (20-99); South Atlantic—Delaware, 17 (100-249); Florida, 7 (100-249); East South Central—Kentucky, 3 (500-999); Alabama, 4 (500-999); West South Central—Arkansas, 2 (100-249); Texas, 5 (500-999); Pacific—California, 15 (250-499).

S.I.C. 2252, Seamless Hosiery Mills: New England—Maine, 1 (1-19); Vermont, 2 (20-99); Rhode Island, 1 (20-99); Connecticut, 3 (100-249); Middle Atlantic—New York, 14 (500-999); New Jersey, 5 (100-249); East North Central—Ohio, 3 (250-499); Indiana, 1 (250-499); Illinois, 4 (500-999); West North Central—Minnesota, 1 (20-99); Missouri, 2 (100-249); South and West—Delaware, 2 (100-249); Maryland, 7 (250-499); West Virginia, 2 (1,000-2,499); South Carolina, 5 (250-499); Mississippi, 7 (500-999); Arkansas, 3 (100-249); Louisiana, 2 (250-499); Colorado, 1 (20-99); California, 1 (1-19).

S.I.C. 2253, Knit Outerwear Mills: New England—Maine, 2 (20-99); Vermont, 1 (1-19); Connecticut, 15 (250-499); South—Maryland, 2 (1-19); West Virginia, 1 (100-249); North Carolina, 10 (500-999); South Carolina, 1 (20-99); Georgia, 3 (250-499); Florida, 1 (1-19); Tennessee, 1 (20-99); Alabama, 3 (1,011); Mississippi, 1 (1-19); Texas, 1 (1-19); Texas, 1 (250-499); West—Colorado, 1 (1-19); Utah, 2 (20-99); Washington, 8 (20-99); Oregon, 3 (1,363); California, 50 (500-999).

S.I.C. 2253, Pt. A, Manufacturers: New England—Maine, 1 (20-99); New Hampshire, 5 (500-999); Vermont, 1 (1-19); Connecticut, 5 (20-99); North Central—Ohio, 17 (1,000-2,499); Illinois, 11 (250-499); Minnesota, 7 (250-499); South—Maryland, 1 (1-19); Virginia, 9 (1,000-2,499); West Virginia, 1 (100-249); North Carolina, 8 (500-999); South Carolina, 1 (20-99); Georgia, 3 (250-499); Tennessee, 1 (20-99); Alabama, 3 (1,011); Mississippi, 1 (1-19); Texas, 1 (250-499); West—Colorado, 1 (1-19); Utah, 2 (20-99); Oregon, 3 (1,363); California, 43 (500-999).

S.I.C. 2253, Pt. B, Converters: Northeast—New Hampshire, 1 (250-499); Massachusetts, 1 (250-499); New Jersey, 6 (100-249); All Other Divisions—Ohio, 1 (20-99); Illinois, 1 (1-19); Minnesota, 2 (20-99); Maryland, 1 (1-19); North Carolina, 1 (20-99); California, 1 (1-19).

S.I.C. 2253, Pt. C, Contractors: Northeast—Maine, 1 (1-19); New Hampshire, 1 (1-19); Massachusetts, 4 (500-999); Connecticut, 10 (250-499); New Jersey, 50 (1,000-2,499); All Other Divisions—Ohio, 2 (100-249); Illinois, 1 (1-19); Virginia, 2 (20-99); North Carolina, 1 (20-99); Florida, 1 (1-19); California, 6 (20-99).

S.I.C. 2254, Knit Underwear Mills: New England—New Hampshire, 2 (20-99); Vermont, 1 (20-99); Rhode Island, 1 (100-249); Connecticut, 1 (100-249); Middle Atlantic—New York, 24 (2,500-4,999); New Jersey, 2 (20-99); North Central—Ohio, 3 (500-999); Illinois, 2 (100-249); Michigan, 3 (250-499); Wisconsin, 3 (1,176); Minnesota, 1 (1,000-2,499); South and West—Virginia, 3 (100-249); South Carolina, 1 (100-249); Kentucky, 1 (500-999); Alabama, 3 (1,000-2,499); Mississippi, 1 (500-999); Texas, 2 (1-19); Utah, 2 (100-249).

S.I.C. 2255, Knit Glove Mills: Northeast—New Hampshire, 1 (1-19); New York, 21 (1,000-2,499); All Other Divisions—Ohio, 1 (20-99); Indiana, 1 (20-99); Wisconsin, 2 (500-999); Minnesota, 1 (20-99); Iowa, 1 (20-99); Florida, 1 (1-19).

S.I.C. 2256, Knit Fabric Mills: New England—New Hampshire, 1 (20-99); Rhode Island, 10 (250-499); Connecticut, 7 (500-999); North Central—Ohio, 1 (1-19); Indiana, 1 (20-99); Michigan, 1 (1-19); Wisconsin, 6 (100-249); Iowa, 1 (20-99); South Atlantic—Delaware, 1 (20-99); Maryland, 1 (1-19); Virginia, 4 (500-999); Georgia, 1 (1-19); East South Central—Tennessee, 6 (1,000-2,499); Alabama, 3 (500-999); Pacific—California, 5 (20-99).

S.I.C. 2256, Pt. A, Manufacturers: Northeast—New Hampshire, 1 (20-99); Rhode Island, 7 (250-499); Connecticut, 4 (20-99); North Central and South—Indiana, 1 (20-99); Michigan, 1 (1-19); Wisconsin, 5 (100-249); Iowa, 1 (20-99); Maryland, 1 (1-19); Virginia, 3 (250-499); Georgia, 1 (1-19); Tennessee, 6 (1,195); Alabama, 3 (500-999); California, 5 (20-99).

S.I.C. 2256, Pt. B, Converters: All Other States—Massachusetts, 3 (250-499); Connecticut, 1 (250-499); Pennsylvania, 4 (100-249); Virginia, 1 (20-99); North Carolina, 2 (100-249).

S.I.C. 2256, Pt. C, Contractors: All Other States—Massachusetts, 8 (100-249); Rhode Island, 3 (100-249); Connecticut, 2 (250-499); Pennsylvania, 20 (500-999); Ohio, 1 (1-19); Wisconsin, 1 (1-19); Delaware, 1 (20-99); North Carolina, 4 (100-249).

S.I.C. 2259, Knitting Mills, N.E.C.: Northeast—Massachusetts, 2 (20-99); Connecticut, 2 (20-99); New Jersey, 1 (100-249); All Other Divisions—Ohio, 1 (1-19); Illinois, 1 (100-249); North Carolina, 3 (100-249); South Carolina, 1 (1-19); Georgia, 1 (20-99); Florida, 1 (1-19); Alabama, 1 (20-99); California, 2 (1-19).

<sup>2</sup> Omitted because of duplication in cost of materials and value of products shipped (See text for this industry).

## MANUFACTURES—INDUSTRY STATISTICS

Table 3.—DETAILED STATISTICS FOR THE UNITED STATES: 1954

(For explanation of line captions see Introduction)

Item	Full-fashioned hosiery mills (S.I.C. 2251) all establishments	Seamless hosiery mills (S.I.C. 2252) all establishments	Knit outerwear mills (S.I.C. 2253)			
			Total	"Manufacturers" Part A	"Converters" Part B	"Contractors" Part C
Primary product specialization ratio <sup>1</sup> .....	( <sup>2</sup> )	96	93	(NA)	(NA)	(NA)
Coverage ratio <sup>3</sup> .....	( <sup>2</sup> )	93	73	(NA)	(NA)	(NA)
Number of establishments, total.....	789	609	1,083	550	147	386
With 1-19 employees.....	369	165	554	281	100	173
With 20-99 employees.....	275	274	426	188	42	196
With 100 employees and over.....	145	170	103	81	5	17
All employees:						
Number (average for year).....	60,150	63,350	46,403	30,052	3,689	12,661
Payroll.....\$1,000.....	178,454	135,481	139,182	87,659	15,197	36,326
Production workers:						
Number (average for year).....	55,023	59,656	41,345	26,854	2,474	12,016
Man-hours.....1,000.....	101,925	105,905	75,955	49,715	3,958	22,281
Wages.....\$1,000.....	151,619	117,455	104,490	66,726	5,772	31,990
Value added by manufacture.....do.....	266,993	202,477	231,702	134,454	42,228	55,019
Cost of materials, etc.....do.....	( <sup>2</sup> )	226,773	312,431	164,284	130,944	17,202
Value of shipments.....do.....	( <sup>2</sup> )	429,251	544,129	298,739	173,169	72,221
Value added by resales.....do.....	5,362	1,591	9,989	8,378	1,600	10
Cost of products bought and resold.....do.....	17,467	9,030	24,471	17,161	7,268	42
Sales of products bought and resold.....do.....	22,830	10,622	34,461	25,540	8,868	53
Total inventories, beginning of year.....do.....	95,108	70,728	83,635	53,761	25,907	3,967
Total inventories, end of year.....do.....	90,656	68,794	75,811	47,884	23,847	4,080
Capital expenditures, new.....do.....	7,698	12,986	9,853	5,766	785	3,301
Number of employees for selected months:						
March.....	61,604	61,614	40,993	27,686	3,445	9,862
May.....	59,820	60,870	44,529	28,657	3,484	12,388
August.....	58,137	64,133	50,134	32,009	3,879	14,246
November.....	60,982	66,783	49,956	31,857	3,950	14,149
Cost of materials, fuel, electricity and contract work, total.....\$1,000.....	( <sup>2</sup> )	226,773	312,431	164,284	130,944	17,202
Materials, parts, containers, and supplies consumed.....do.....	( <sup>2</sup> )	210,960	239,010	154,786	72,994	11,230
Fuels consumed, total.....do.....	2,382	2,182	1,165	776	124	265
Bituminous coal and anthracite:						
Quantity.....1,000 short tons..	95	142	39	29	8	2
Value.....\$1,000.....	851	1,276	407	308	86	13
Coke:						
Quantity.....1,000 short tons..	1	...	( <sup>5</sup> )	...	...	( <sup>5</sup> )
Value.....\$1,000.....	15	...	( <sup>6</sup> )	...	...	( <sup>6</sup> )
Fuel oil:						
Quantity.....1,000 barrels.....	316	113	140	85	9	46
Value.....\$1,000.....	1,174	452	564	343	37	184
Gas:						
Quantity.....million cubic feet..	770	1,442	378	330	2	46
Value.....\$1,000.....	230	374	162	112	( <sup>6</sup> )	49
Other fuels:						
Value.....do.....	112	80	29	13	...	16
Electric energy:						
Purchased:						
Quantity.....million kwh.....	329	147	309	57	41	211
Cost.....\$1,000.....	4,109	1,901	5,401	1,081	670	3,650
Generated.....million kwh.....	...	...	...	...	...	...
Cost of contract work.....\$1,000.....	11,726	11,730	66,855	7,641	57,156	2,057
Manufacturers' inventories:						
Beginning of year, total.....do.....	95,108	70,728	83,635	53,761	25,907	3,967
Finished products.....do.....	34,448	27,699	40,783	22,366	16,865	1,552
Work-in-process.....do.....	40,373	21,705	15,481	10,896	3,679	906
Materials, supplies, fuel, etc.....do.....	20,287	21,324	27,367	20,498	5,362	1,507
End of year, total.....do.....	90,656	68,794	75,811	47,884	23,847	4,080
Finished products.....do.....	35,536	25,666	35,611	19,112	15,154	1,345
Work-in-process.....do.....	37,709	22,826	15,457	10,747	3,662	1,048
Materials, supplies, fuel, etc.....do.....	17,411	20,302	24,742	18,024	5,031	1,687
Expenditures for plant and equipment, total.....do.....	10,309	14,868	10,878	6,266	898	3,713
Capital expenditures, new.....do.....	7,698	12,986	9,853	5,766	785	3,301
New structures and additions to plant.....do.....	937	1,727	1,011	725	( <sup>4</sup> )	( <sup>4</sup> )
New machinery and equipment.....do.....	6,761	11,259	8,842	5,039	613	3,190
Expenditures for used plant and equipment.....do.....	2,610	1,882	1,025	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
Horsepower rating of power equipment at end of 1954:						
Horsepower of prime movers and electric motors driven by purchased energy, total.....1,000 hp..	92	46	25	16	( <sup>8</sup> )	9
Engines, etc., driving electric generators.....do.....	3	1	2	1	...	1
Engines, etc., not driving electric generators.....do.....	3	2	( <sup>8</sup> )	( <sup>8</sup> )	...	( <sup>8</sup> )
Electric motors driven by purchased energy.....do.....	86	43	23	15	( <sup>8</sup> )	8
Electric motors driven by energy generated at the establishment.....do.....	( <sup>8</sup> )	( <sup>8</sup> )	...	...	...	...

See footnotes at end of table.



## KNITTING MILLS

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Table 3.—DETAILED STATISTICS FOR THE UNITED STATES: 1954—Continued

Item	Knit underwear mills (S.I.C. 2254)		Knit glove mills (S.I.C. 2255)	
	All estab- lishments	Establishments with 90% or more primary product specialization	All estab- lishments	Establishments with 90% or more primary product specialization
Primary product specialization ratio <sup>1</sup> .....	88	xxx	86	xxx
Coverage ratio <sup>3</sup> .....	39	xxx	20	xxx
Number of establishments, total.....	149	101	29	17
With 1-19 employees.....	16	12	9	7
With 20-99 employees.....	58	40	16	8
With 100 employees and over.....	75	49	4	2
All employees:				
Number (average for year).....	31,262	18,619	2,025	989
Payroll.....\$1,000..	77,501	46,105	4,871	2,630
Production workers:				
Number (average for year).....	28,248	16,803	1,855	906
Man-hours.....1,000..	51,204	30,625	3,258	1,726
Wages.....\$1,000..	63,095	37,455	3,966	2,161
Value added by manufacture.....do....	110,591	71,760	6,192	3,057
Cost of materials, etc.....do....	145,699	93,779	5,595	2,983
Value of shipments.....do....	256,290	165,540	11,787	6,040
Value added by resales.....do....	934	712	30	8
Cost of products bought and resold.....do....	4,311	3,065	153	55
Sales of products bought and resold.....do....	5,245	3,777	184	64
Total inventories, beginning of year.....do....	66,336	39,314	3,258	1,289
Total inventories, end of year.....do....	58,472	33,986	2,576	999
Capital expenditures, new.....do....	2,982	1,163	(4)	(4)
Number of employees for selected months:				
March.....	31,056	18,449	1,579	848
May.....	31,055	18,644	2,016	949
August.....	31,771	18,813	2,427	1,153
November.....	31,165	18,570	2,078	1,006
Cost of materials, fuel, electricity and contract work, total.....\$1,000..	145,699	93,779	5,595	2,983
Materials, parts, containers, and supplies consumed.....do....	137,422	87,290	4,984	2,482
Fuels consumed, total.....do....	1,182	582	59	32
Bituminous coal and anthracite:				
Quantity.....1,000 short tons..	90	(NA)	2	(NA)
Value.....\$1,000..	792	(NA)	22	(NA)
Fuel oil:				
Quantity.....1,000 barrels..	52	(NA)	8	(NA)
Value.....\$1,000..	203	(NA)	33	(NA)
Gas:				
Quantity.....million cubic feet..	435	(NA)	5	(NA)
Value.....\$1,000..	181	(NA)	(6)	(NA)
Other fuels:				
Value.....do....	6	(NA)	(NA)	(NA)
Electric energy:				
Purchased:				
Quantity.....million kwh..	70	32	2	2
Cost.....\$1,000..	910	518	46	30
Generated.....million kwh..	(7)	(7)	...	...
Cost of contract work.....\$1,000..	6,185	5,389	506	439
Manufacturers' inventories:				
Beginning of year, total.....do....	66,336	39,314	3,258	1,289
Finished products.....do....	35,090	21,512	1,229	539
Work-in-process.....do....	10,818	6,130	(4)	(4)
Materials, supplies, fuel, etc.....do....	20,428	11,670	1,649	510
End of year, total.....do....	58,472	33,986	2,576	999
Finished products.....do....	28,159	17,243	899	(4)
Work-in-process.....do....	10,963	5,891	(4)	(4)
Materials, supplies, fuel, etc.....do....	19,350	10,850	1,389	(4)
Expenditures for plant and equipment, total.....do....	3,537	1,343	(4)	(4)
Capital expenditures, new.....do....	2,982	1,163	(4)	(4)
New structures and additions to plant.....do....	1,011	(4)	(4)	(4)
New machinery and equipment.....do....	1,969	1,013	(4)	(4)
Expenditures for used plant and equipment.....do....	556	(4)	(4)	(4)
Horsepower rating of power equipment at end of 1954: .				
Horsepower of prime movers and electric motors driven by purchased energy, total.....1,000 hp..	33	18	1	1
Engines, etc., driving electric generators.....do....	2	1	...	...
Engines, etc., not driving electric generators.....do....	3	1	...	...
Electric motors driven by purchased energy.....do....	28	16	1	1
Electric motors driven by energy generated at the establishment.....do....	1	1	...	...

See footnotes at end of table.

## MANUFACTURES—INDUSTRY STATISTICS

Table 3.—DETAILED STATISTICS FOR THE UNITED STATES: 1954—Continued

Item	Knit fabric mills (S.I.C. 2256)				Knitting mills, n.e.c. (S.I.C. 2259)	
	Total	"Manufacturers" Part A all establishments	"Converters" Part B all establishments	"Con-tractors" Part C all establishments	All establishments	Establishments with 90% or more primary product specialization
Primary product specialization ratio <sup>1</sup> .....	94	(NA)	(NA)	(NA)	62	xxx
Coverage ratio <sup>2</sup> .....	91	(NA)	(NA)	(NA)	75	xxx
Number of establishments, total.....	340	234	25	81	46	31
With 1-19 employees.....	187	136	15	36	32	23
With 20-99 employees.....	108	64	6	38	10	8
With 100 employees and over.....	45	34	4	7	4	...
All employees:						
Number (average for year).....	16,812	12,218	1,230	3,363	1,399	558
Payroll.....\$1,000..	57,878	40,744	4,477	12,656	3,950	1,687
Production workers:						
Number (average for year).....	14,680	10,739	954	2,986	1,167	472
Man-hours.....1,000..	30,560	21,611	2,150	6,798	2,218	903
Wages.....\$1,000..	44,621	31,362	2,737	10,521	2,846	1,150
Value added by manufacture.....do...	113,122	81,739	10,554	20,828	7,059	3,563
Cost of materials, etc.....do...	264,262	206,500	48,022	9,738	8,746	4,017
Value of shipments.....do...	377,383	288,239	58,576	30,567	15,805	7,581
Value added by resales.....do...	390	358	8	24	68	17
Cost of products bought and resold.....do...	2,162	1,878	63	221	709	139
Sales of products bought and resold.....do...	2,553	2,236	71	245	777	156
Total inventories, beginning of year.....do...	54,522	42,505	9,484	2,533	2,485	1,213
Total inventories, end of year.....do...	50,613	42,805	5,751	2,057	2,313	1,045
Capital expenditures, new.....do...	6,214	4,580	515	1,169	(4)	(4)
Number of employees for selected months:						
March.....	16,543	12,092	1,242	3,209	1,331	554
May.....	16,229	11,761	1,203	3,265	1,325	559
August.....	16,925	12,288	1,219	3,418	1,338	558
November.....	17,550	12,731	1,255	3,564	1,407	558
Cost of materials, fuel, electricity and contract work, total.....\$1,000..	264,262	206,500	48,022	9,738	8,746	4,017
Materials, parts, containers, and supplies consumed.....do...	243,081	196,673	38,604	7,803	8,500	3,922
Fuels consumed, total.....do...	3,051	1,775	411	865	47	13
Bituminous coal and anthracite:						
Quantity.....1,000 short tons..	178	147	13	18	(5)	(NA)
Value.....\$1,000..	1,306	985	119	202	(6)	(NA)
Fuel oil:						
Quantity.....1,000 barrels..	421	202	8	211	9	(NA)
Value.....\$1,000..	1,282	640	27	615	35	(NA)
Gas:						
Quantity.....million cubic feet..	504	187	301	16	15	(NA)
Value.....\$1,000..	339	58	265	16	10	(NA)
Other fuels:						
Value.....do...	124	92	...	32	(NA)	(NA)
Electric energy:						
Purchased:						
Quantity.....million kwh..	159	114	11	33	3	1
Cost.....\$1,000..	2,015	1,411	170	434	61	28
Generated.....million kwh..	3	3	...	...	...	...
Cost of contract work.....\$1,000..	16,115	6,641	8,837	636	138	54
Manufacturers' inventories:						
Beginning of year, total.....do...	54,522	42,505	9,484	2,533	2,485	1,213
Finished products.....do...	16,231	11,973	3,702	556	1,132	(4)
Work-in-process.....do...	15,097	12,924	1,756	(4)	539	(4)
Materials, supplies, fuel, etc.....do...	23,192	17,607	4,026	1,559	813	504
End of year, total.....do...	50,613	42,805	5,751	2,057	2,313	1,045
Finished products.....do...	14,441	12,153	1,913	(4)	1,128	(4)
Work-in-process.....do...	14,996	13,306	1,244	(4)	642	(4)
Materials, supplies, fuel, etc.....do...	21,173	17,345	2,593	1,235	543	(4)
Expenditures for plant and equipment, total.....do...	7,124	5,192	607	1,325	(4)	(4)
Capital expenditures, new.....do...	6,214	4,530	515	1,169	(4)	(4)
New structures and additions to plant.....do...	867	776	(4)	(4)	(4)	(4)
New machinery and equipment.....do...	5,347	3,754	(4)	1,093	(4)	(4)
Expenditures for used plant and equipment.....do...	910	642	(4)	(4)	(4)	(4)
Horsepower rating of power equipment at end of 1954:						
Horsepower of prime movers and electric motors driven by purchased energy, total.....1,000 hp..	62	47	3	11	1	(8)
Engines, etc., driving electric generators.....do...	7	6	...	1	(8)	...
Engines, etc., not driving electric generators.....do...	2	(8)	(8)	1	(8)	...
Electric motors driven by purchased energy.....do...	53	41	3	9	1	(8)
Electric motors driven by energy generated at the establishment.....do...	1	1	...	(8)	...	...

Note: Detailed figures may not add to the totals because of independent rounding. xxx Not applicable. NA Not available. <sup>1</sup>The specialization ratio compares the given industry's shipments of its primary products to its total shipments of all products. (The primary products are listed in Tables 5B and 6A.) Columns containing totals for establishments with 90% or more primary product specialization are shown only for those industries having a primary product specialization of less than 90%. <sup>2</sup>Omitted because of substantial but indeterminate duplication in value of shipments and cost of materials. Specialization and coverage ratios are not meaningful because of such duplication. These ratios were, however, quite high (over 90) since the value of secondary products of the industry is very low and plants classified in other industries shipped very little full-fashioned hosiery, finished or in the greige. <sup>3</sup>The coverage ratio measures the extent to which the total shipments of products primary to the given industry are shipped by establishments classified in that industry. <sup>4</sup>Less than \$500 thousand. <sup>5</sup>Less than 500 tons. <sup>6</sup>Less than \$5 thousand. <sup>7</sup>Less than 500 thousand kwh. <sup>8</sup>Less than 500 hp.

## KNITTING MILLS

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Table 4.—SELECTED STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR THE UNITED STATES: 1954

(Value figures in thousands of dollars. For explanation of line captions see Introduction. Data which cannot be shown without disclosing information for individual companies have been combined with figures for other size classes. A (D) appears in the column where the figure has been omitted and the combined figure is underlined and shown in the size-class to the left)

Ind. code	Industry and item	Total, all establishments	Establishments with an average of—									
			1-4 em-employees	5-9 em-employees	10-19 em-employees	20-49 em-employees	50-99 em-employees	100-249 employees	250-499 employees	500-999 employees	1,000-2,499 employees	2,500 employees and over
2251	Full-fashioned hosiery mills:											
	Number of establishments...	789	154	106	109	166	109	85	36	22	1	1
	Number of employees.....	60,150	376	775	1,581	5,203	7,571	12,600	12,081	<u>19,959</u>	(D)	(D)
	Value added by manufacture.	266,993	2,436	3,446	8,392	22,924	30,130	55,694	56,618	<u>87,349</u>	(D)	(D)
2252	Seamless hosiery mills:											
	Number of establishments...	609	64	34	67	141	133	105	47	14	4	...
	Number of employees.....	63,350	161	242	981	4,598	9,393	16,450	16,068	9,341	6,113	...
	Value added by manufacture.	202,477	525	894	3,745	14,227	27,757	50,382	50,979	26,304	27,660	...
2253	Knit outerwear mills:											
	Number of establishments...	1,083	184	163	207	285	141	78	19	5	1	...
	Number of employees.....	46,403	500	1,187	2,994	9,008	9,756	11,790	6,639	<u>4,525</u>	(D)	...
	Value added by manufacture.	231,702	5,158	8,843	18,386	46,163	52,993	54,868	26,363	<u>18,926</u>	(D)	...
2253-	"Manufacturers:"											
Pt.A	Number of establishments...	550	120	78	83	116	72	59	16	5	1	...
	Number of employees.....	30,052	303	558	1,170	3,758	5,121	9,154	5,459	<u>4,525</u>	(D)	...
	Value added by manufacture.	134,454	1,963	2,844	5,692	17,322	23,348	42,085	22,271	<u>18,926</u>	(D)	...
2253-	"Converters:"											
Pt.B	Number of establishments...	147	43	34	23	26	16	4	1	...	...	...
	Number of employees.....	3,689	130	249	323	830	1,067	<u>1,088</u>	(D)	...	...	...
	Value added by manufacture.	42,228	2,914	4,449	6,678	9,474	12,823	<u>5,888</u>	(D)	...	...	...
2253-	"Contractors:"											
Pt.C	Number of establishments...	386	21	51	101	143	53	15	2	...	...	...
	Number of employees.....	12,661	66	380	1,500	4,419	3,568	<u>2,727</u>	(D)	...	...	...
	Value added by manufacture.	55,019	279	1,549	6,015	19,366	16,822	<u>10,985</u>	(D)	...	...	...
2254	Knit underwear mills:											
	Number of establishments...	149	6	5	5	23	35	46	16	9	2	2
	Number of employees.....	31,262	45	(D)	81	792	2,548	7,082	5,812	7,047	<u>7,853</u>	(D)
	Value added by manufacture.	110,591	<u>131</u>	(D)	212	2,543	9,084	24,566	19,278	26,501	<u>28,273</u>	(D)
2255	Knit glove and mitten mills:											
	Number of establishments...	29	2	2	5	10	6	2	2	...	...	...
	Number of employees.....	2,025	<u>16</u>	(D)	72	341	408	<u>1,187</u>	(D)	...	...	...
	Value added by manufacture.	6,192	<u>132</u>	(D)	175	1,065	1,342	<u>3,476</u>	(D)	...	...	...
2256	Knit fabric mills:											
	Number of establishments...	340	60	58	69	80	28	31	12	2	...	...
	Number of employees.....	16,812	165	403	1,026	2,415	2,026	5,441	<u>5,334</u>	(D)	...	...
	Value added by manufacture.	113,122	1,493	3,596	8,409	16,246	11,429	39,581	<u>32,366</u>	(D)	...	...
2256-	"Manufacturers:"											
Pt.A	Number of establishments...	234	46	42	48	49	15	23	9	2	...	...
	Number of employees.....	12,218	120	294	688	1,456	1,148	4,141	<u>4,367</u>	(D)	...	...
	Value added by manufacture.	81,739	1,123	2,888	6,254	9,606	5,874	31,326	<u>24,667</u>	(D)	...	...
2256-	"Converters:"											
Pt.B	Number of establishments...	25	7	4	4	2	4	3	1	...	...	...
	Number of employees.....	1,230	18	22	<u>124</u>	(D)	270	<u>794</u>	(D)	...	...	...
	Value added by manufacture.	10,554	140	273	<u>915</u>	(D)	2,346	<u>6,877</u>	(D)	...	...	...
2256-	"Contractors:"											
Pt.C	Number of establishments...	81	7	12	17	29	9	5	2	...	...	...
	Number of employees.....	3,363	26	87	<u>1,171</u>	(D)	607	<u>1,471</u>	(D)	...	...	...
	Value added by manufacture.	20,828	229	434	<u>7,878</u>	(D)	3,208	<u>9,077</u>	(D)	...	...	...
2259	Knitting mills, n.e.c.:											
	Number of establishments...	46	12	8	12	6	4	4	...	...	...	...
	Number of employees.....	1,359	29	63	181	<u>457</u>	(D)	628	...	...	...	...
	Value added by manufacture.	7,059	183	318	1,102	<u>2,676</u>	(D)	2,778	...	...	...	...

Note: Detailed figures may not add to the totals because of independent rounding.



## MANUFACTURES—INDUSTRY STATISTICS

Table 5A.—INDUSTRY-PRODUCT ANALYSIS—SUMMARY OF INDUSTRY AND PRIMARY PRODUCT SHIPMENTS, SPECIALIZATION RATIOS AND COVERAGE RATIOS FOR THE UNITED STATES: 1954 AND 1947

Industry code	Industry and census year	Value of shipments					Value of primary products shipped			
		Total	Primary products	Secondary products	Miscellaneous receipts	Primary product specialization ratio <sup>1</sup>	Total (made in all industries)	Made in this industry	Made in other industries	Coverage ratio <sup>2</sup>
		(\$1,000) (A)	(\$1,000) (B)	(\$1,000) (C)	(\$1,000) (D)	Col. B Col. A+C (Percent) (E)	(\$1,000) (F)	(\$1,000) (G)	(\$1,000) (H)	Col. G Col. H (Percent) (I)
2251	Full-fashioned hosiery mills..1954.. 1947..	( <sup>3</sup> ) ( <sup>3</sup> )	( <sup>3</sup> ) ( <sup>3</sup> )	24,045 30,472	22,116 35,033	( <sup>4</sup> ) ( <sup>4</sup> )	( <sup>3</sup> ) ( <sup>3</sup> )	( <sup>3</sup> ) ( <sup>3</sup> )	( <sup>3</sup> ) ( <sup>3</sup> )	( <sup>4</sup> ) ( <sup>4</sup> )
2252	Seamless hosiery mills.....1954.. 1947..	429,251 327,007	401,515 307,516	15,244 11,766	12,492 7,725	96 96	429,531 339,343	401,515 307,516	28,016 31,827	93 91
2253	Knit outerwear mills.....1954.. 1947..	544,129 330,474	<sup>5</sup> 434,357 <sup>5</sup> 275,039	32,627 22,698	77,145 32,737	<sup>5</sup> 93 <sup>5</sup> 91	<sup>5</sup> 666,220 <sup>5</sup> 373,212	<sup>5</sup> 434,357 <sup>5</sup> 275,039	<sup>5</sup> 231,863 <sup>5</sup> 98,173	<sup>5</sup> 73 <sup>5</sup> 82
2254	Knit underwear mills.....1954.. 1947..	256,290 295,411	221,587 251,657	31,539 37,874	3,164 5,880	88 87	574,779 357,197	221,587 251,657	353,192 105,540	39 70
2255	Knit glove mills.....1954.. 1947..	11,787 24,318	9,794 21,233	1,647 1,989	346 1,096	86 91	50,043 61,835	9,794 21,233	40,249 40,602	20 34
2256	Knit fabric mills.....1954.. 1947..	377,383 197,454	321,311 173,723	18,521 12,733	37,551 10,998	94 93	352,429 197,090	321,311 173,723	31,118 23,367	91 88
2259	Knitting mills, n.e.c.....1954.. 1947..	15,805 10,587	9,704 10,289	5,865 263	236 35	62 98	12,872 11,561	9,704 10,289	3,168 1,272	75 89

<sup>1</sup>The specialization ratio compares the given industry's shipments of its primary products to its total shipments of all products. (The primary products are listed in Tables 5B and 6A; the first 4-digits of the product code represent the industry code to which the product is primary.)

<sup>2</sup>The coverage ratio measures the extent to which the total shipments of products primary to the given industry are shipped by establishments classified in that industry.

<sup>3</sup>Omitted because of duplication in value of shipments. See introductory text for this industry.

<sup>4</sup>Ratios not meaningful because of duplication in value of shipments. These ratios were, however, quite high (over 90) since the value of secondary products of the industry is very low and plants classified in other industries shipped very little full-fashioned hosiery, either finished or in the greige.

<sup>5</sup>Figures include both woven and knit swimwear and athletic shorts, although only the knit portion is primary to Industry 2253. However, for the purpose of calculating the specialization and coverage ratios, only the knit portion was included.

## KNITTING MILLS

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Table 5B.—INDUSTRY-PRODUCT ANALYSIS—SHIPMENTS BY PRODUCT CLASS AND INDUSTRY, FOR THE UNITED STATES: 1954

(In thousands of dollars. The first column shows the total value of shipments of the specified industry divided among: (a) products classified in the industry (primary products), (b) products classified in other industries (secondary products) and (c) miscellaneous receipts. The value of shipments of the primary products of the specified industry reported by establishments not classified in that industry is shown under the caption "Other Industries." Industries accounting for significant amounts of the primary products listed are shown in separate columns provided that the figures for individual companies are not thereby disclosed. The last column shows the total value of shipments of the primary products of the industry by all manufacturing industries)

Prod. class code	Full-fashioned hosiery mills	Full-fashioned hosiery mills (S.I.C. 2251)	Seamless hosiery mills (S.I.C. 2252)	Other industries	All industries
	Total shipments of the industry.....	( <sup>1</sup> )	xxx	xxx	xxx
	Primary products.....	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )
22511	Finished full-fashioned hosiery.....	339,844	6,519	813	347,176
22512	Full-fashioned hosiery shipped in the greige.....	131,940	579	66	132,585
	Secondary products.....	24,045	xxx	xxx	xxx
22521	Women's finished seamless hosiery.....	11,668	xxx	xxx	xxx
22522	Men's finished seamless hosiery.....	6,814	xxx	xxx	xxx
22523	All other finished seamless hosiery.....	4,729	xxx	xxx	xxx
	Other secondary products.....	834	xxx	xxx	xxx
	Miscellaneous receipts.....	22,116	xxx	xxx	xxx
	Contract and commission work.....	21,628	xxx	xxx	xxx
	Other.....	488	xxx	xxx	xxx
Prod. class code	Seamless hosiery mills	Seamless hosiery mills (S.I.C. 2252)	Full-fashioned hosiery mills (S.I.C. 2251)	Other industries	All industries
	Total shipments of the industry.....	429,251	xxx	xxx	xxx
	Primary products.....	401,515	23,875	4,141	429,531
22521	Women's finished seamless hosiery.....	52,470	11,668	838	64,976
22522	Men's finished seamless hosiery.....	185,643	6,814	1,986	194,443
22523	All other finished seamless hosiery.....	130,676	4,729	1,317	136,722
22524	Seamless hosiery sold as greige goods.....	32,726	664	...	33,390
	Secondary products.....	15,244	xxx	xxx	xxx
22242	Yarns spun on cotton system.....	2,180	xxx	xxx	xxx
22511	Finished full-fashioned hosiery.....	6,519	xxx	xxx	xxx
	Other secondary products.....	6,545	xxx	xxx	xxx
	Miscellaneous receipts.....	12,492	xxx	xxx	xxx
	Contract and commission work.....	11,465	xxx	xxx	xxx
	Scrap and salable refuse.....	1,011	xxx	xxx	xxx
	Other.....	16	xxx	xxx	xxx
Prod. class code	Knit outerwear mills	Knit outerwear mills (S.I.C. 2253)	Other industries		All industries
	Total shipments of the industry.....	544,129	xxx		xxx
	Primary products.....	434,357	231,863		666,220
22531	Knit sweaters, jackets, jerseys, and pullovers.....	277,595	230,561		308,156
22532	Knit outerwear sport shirts.....	70,311	296,346		166,657
22533	Swimwear and athletic shorts <sup>4</sup> .....	14,426	278,088		92,514
22530	Knit outerwear mills, not specified by kind.....	17,333	728		18,061
23230 pt.	Men's and boys' knit neckwear.....	2,207	62,729		4,936
23250 pt.	Knit cloth hats and caps.....	5,333	71,970		7,303
23330 pt.	Women's, misses', and juniors' unit-price dresses, made in knitting mills.....	37,250	3,930		41,180
23690 pt.	Children's knit outerwear, n.e.c.....	9,902	12,511		27,413
	Secondary products.....	32,627	xxx		xxx
22562	Circular knit fabrics.....	5,574	xxx		xxx
23211	Men's and boys' woven dress and sport shirts.....	2,202	xxx		xxx
23220	Men's and boys' underwear.....	6,578	xxx		xxx
23293	Men's and boys' outerwear, n.e.c.....	2,364	xxx		xxx
23380	Women's, misses', and juniors' neckwear.....	5,194	xxx		xxx
2341-	Women's and children's underwear.....	2,966	xxx		xxx
	Other secondary products.....	7,749	xxx		xxx
	Miscellaneous receipts.....	77,145	xxx		xxx
	Contract and commission work.....	74,883	xxx		xxx
	Scrap and salable refuse.....	2,212	xxx		xxx
	Other.....	( <sup>9</sup> )	xxx		xxx

See footnotes at end of table.

## MANUFACTURES—INDUSTRY STATISTICS

Table 5B.—INDUSTRY-PRODUCT ANALYSIS—SHIPMENTS BY PRODUCT CLASS AND INDUSTRY, FOR THE UNITED STATES: 1954—Continued

Prod. class code	Knit underwear mills	Knit underwear mills (S.I.C. 2254)	Knit outerwear mills (S.I.C. 2253)	Other industries	All industries		
	Total shipments of the industry.....	256,290	xxx	xxx	xxx		
	Primary products.....	221,587	10,573	11342,619	574,779		
23212 pt.	Men's and boys' knit nightwear.....	102,993	101,031	2,150	6,174		
23220 pt.	Men's and boys' knit underwear.....	10132,986	106,578	1111,862	151,426		
23411 pt.	Women's and children's knit underwear.....	1056,522	101,481	11267,460	325,463		
23412 pt.	Women's and children's knit nightwear.....	1026,559	101,483	1161,147	89,189		
22540	Knit underwear, not specified by kind.....	2,527	...	...	2,527		
	Secondary products.....	31,539	xxx	xxx	xxx		
22532	Knit outerwear sport shirts.....	20,313	xxx	xxx	xxx		
22561	Warp knit fabrics.....	5,446	xxx	xxx	xxx		
22562	Circular knit fabrics.....	4,428	xxx	xxx	xxx		
	Other secondary products.....	1,352	xxx	xxx	xxx		
	Miscellaneous receipts.....	3,164	xxx	xxx	xxx		
	Contract and commission work.....	1,381	xxx	xxx	xxx		
	Scrap and salable refuse.....	1,783	xxx	xxx	xxx		
Prod. class code	Knit glove mills	Knit glove mills (S.I.C. 2255)	Fabric dress gloves (S.I.C. 2381)	Fabric work gloves (S.I.C. 2382)	Other industries	All industries	
	Total shipments of the industry.....	11,787	xxx	xxx	xxx	xxx	
	Primary products.....	9,794	27,300	9,442	3,507	50,043	
23810 pt.	Knit dress gloves and mittens.....	7,800	27,300	284	3,507	38,891	
23820 pt.	Knit work gloves and mittens.....	1,187	...	129,158	...	10,345	
22550	Knit gloves and mittens, not specified by kind.....	807	...	...	...	807	
	Secondary products.....	1,647	xxx	xxx	xxx	xxx	
	Miscellaneous receipts.....	346	xxx	xxx	xxx	xxx	
Prod. class code	Knit fabric mills	Knit fabric mills (S.I.C. 2256)	Synthetic broad-woven fabrics (S.I.C. 2234)	Knit outerwear mills (S.I.C. 2253)	Knit underwear mills (S.I.C. 2254)	Other industries	All industries
	Total shipments of the industry.....	377,383	xxx	xxx	xxx	xxx	xxx
	Primary products.....	321,311	10,571	6,193	9,874	4,480	352,429
22561	Warp knit fabrics.....	159,298	(D)	282	5,446	(D)	175,334
22562	Circular knit fabrics.....	153,071	(D)	5,574	4,428	(D)	167,816
22560	Knit fabric mills, not specified by kind.....	8,942	...	337	...	...	9,279
	Secondary products.....	1318,521	xxx	xxx	xxx	xxx	xxx
	Miscellaneous receipts.....	37,551	xxx	xxx	xxx	xxx	xxx
	Contract and commission work.....	36,753	xxx	xxx	xxx	xxx	xxx
	Scrap and salable refuse.....	798	xxx	xxx	xxx	xxx	xxx
Prod. class code	Knitting mills, n.e.c.	Knitting mills, n.e.c. (S.I.C. 2259)	Other industries	All industries			
	Total shipments of the industry.....	15,805	xxx	xxx			
22590	Other knitting mill products, n.e.c.....	9,704	3,168	12,872			
	Secondary products.....	5,865	xxx	xxx			
	Miscellaneous receipts.....	236	xxx	xxx			

xxx Not applicable.

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>Omitted because of duplication in value of shipments. See Introductory text for this industry.<sup>2</sup>Includes shipments (in thousands of dollars) by the following industries: \$12,108 by Industry 2339, Women's Outerwear, N.E.C.; and \$5,542 by Industry 2369, Children's Outerwear, N.E.C.<sup>3</sup>Includes shipments (in thousands of dollars) by the following industries: \$20,313 by Industry 2254, Knit Underwear Mills; \$29,117 by Industry 2321, Men's Dress Shirts and Nightwear; \$15,399 by Industry 2339, Women's Outerwear, N.E.C.; \$2,310 by Industry 2341, Women's and Children's Underwear; and \$20,611 by Industry 2369, Children's Outerwear, N.E.C.<sup>4</sup>Represents the value of shipments of both woven and knit swimwear and athletic shorts. However, only the knit garments are primary to Industry 2253, Knit Outerwear Mills. The value of shipments of knit swimwear and athletic shorts for this industry is \$5,041 thousand; for Industry 2329, Men's and Boys' Clothing, N.E.C., \$1,520 thousand; for Industry 2339, Women's Outerwear, N.E.C., \$253 thousand; and for Industry 2369, Children's Outerwear, N.E.C., \$358 thousand. In computing the industry specialization and coverage ratios for knit outerwear mills, the \$5,041 thousand value of shipments was used.<sup>5</sup>Includes shipments (in thousands of dollars) by the following industries: \$13,137 by Industry 2329, Men's and boys' Clothing, N.E.C.; \$48,358 by Industry 2339, Women's Outerwear N.E.C.; and \$10,247 by Industry 2369, Children's Outerwear, N.E.C.<sup>6</sup>Nearly all of this amount was shipped by Industry 2323, Men's and Boys' Neckwear.<sup>7</sup>Nearly all of this amount was shipped by Industry 2325, Men's and Boys' Cloth Hats.<sup>8</sup>Nearly all of this amount was shipped by Industry 2369, Children's Outerwear, N.E.C.<sup>9</sup>Less than \$100 thousand.<sup>10</sup>Includes a small amount of woven garments.<sup>11</sup>Excludes a small amount of knit garments.<sup>12</sup>Includes a negligible amount of production of other industries.<sup>13</sup>Of this figure, 38 percent consists of the following product classes: 22920, Lace goods; 23411, Women's and children's underwear; and 23412, Women's and children's nightwear.



## KNITTING MILLS

22C-17

Table 6A.—QUANTITY AND VALUE OF PRODUCTS SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, FOR THE UNITED STATES: 1954 AND 1947

Product code	Product	Total shipments including interplant transfers			
		1954		1947	
		Quantity (1,000 dozen pairs)	Value (\$1,000)	Quantity (1,000 dozen pairs)	Value (\$1,000)
22511	Finished full-fashioned hosiery.....	48,964	347,176	41,535	426,495
	Women's and misses' full-fashioned hosiery:				
2251111	All-nylon and nylon leg.....	48,458	344,051	41,363	425,142
2251131	All other yarns and mixtures.....	253	2,149		
2251151	Men's full-fashioned hose.....	254	976	172	1,353
22512	Full-fashioned hosiery shipped in the greige.....	27,110	132,585	11,120	81,858
	Women's and misses' full-fashioned hosiery:				
2251211	All-nylon and nylon leg.....	26,283	128,785	11,120	81,858
2251231	All other yarns and mixtures.....	827	3,800		
2251000	Full-fashioned hosiery products, not specified by kind.....	...	...	xxx	2,014
2252---	Seamless-hosiery mills.....	xxx	429,531	xxx	339,343
22521	Women's and misses' finished seamless hosiery, except anklets...	10,995	64,976	10,803	253,504
	Women's and misses' seamless hosiery (excluding anklets), including misses' size 6 and up:				
2252111	All-nylon and nylon leg.....	8,843	56,593	10,803	253,504
2252121	All-rayon and rayon leg.....	543	1,585		
2252131	Cotton or principally cotton.....	1,483	5,702		
2252141	All other yarns and mixtures, including ribbed hose.....	127	1,096		
22522	Men's finished seamless hosiery.....	56,716	194,443	61,593	180,441
	Men's seamless half-hose:				
2252211	Nylon or principally nylon.....	2,403	11,534	49,255	147,643
2252213	Rayon and/or acetate or principally rayon and/or acetate..	1,182	2,340		
2252215	Cotton or principally cotton.....	11,480	32,145		
2252217	Wool or principally wool.....	627	4,241		
2252219	All other yarns and mixtures.....	353	730		
	Men's slack socks:				
2252231	Nylon or principally nylon.....	9,797	48,984	31,307	66,855
2252233	Rayon and/or acetate or principally rayon and/or acetate..	2,502	7,118		
2252235	Cotton or principally cotton.....	19,433	58,298		
2252237	Wool or principally wool.....	537	3,823		
2252239	All other yarns and mixtures.....	218	1,293		
	Bundle goods:				
2252241	Cotton or principally cotton.....	3,423	7,598	6,960	17,398
2252245	Wool or principally wool, including skating and ski socks.	642	3,456		
2252251	Athletic socks (gym, sweat, etc.).....	2,487	8,227	1,851	6,201
2252261	Crew socks.....	1,633	4,656	3,527	9,199
22523	All other finished seamless hosiery, including anklets.....	52,851	136,722	38,755	84,186
	Children's and infants' hosiery, excluding anklets:				
2252311	Boys' socks, including boys' slack socks and golf hose...	6,664	16,660	7,448	17,331
2252313	Children's 5/8 and 7/8 (sizes 6 and up).....	1,775	5,277		
2252315	Infants' socks, including ribbed hosiery (sizes through 5-1/2).....	816	1,751		
	Anklets:				
2252331	Women's and misses' (sizes 8 and up).....	19,069	49,579	31,307	66,855
2252333	Men's and boys' (all sizes).....	5,887	15,894		
2252335	Children's (sizes 6 through 8-1/2).....	10,698	25,674		
2252337	Infants' (sizes through 5-1/2).....	5,821	11,822		
2252351	Slipper socks.....	687	5,885	(NA)	(NA)
2252398	Other finished seamless hosiery.....	1,435	4,180	(NA)	(NA)
22524	Seamless hosiery shipped in the greige.....	12,950	33,390	(NA)	16,848
	Women's and misses' seamless hosiery (excluding anklets) including misses' size 6 and up:				
2252411	All-nylon and nylon leg, in the greige.....	1,436	6,318	1,152	6,265
2252421	All-rayon and rayon leg, in the greige.....				
2252431	Cotton or principally cotton, in the greige.....	614	911		
2252441	All other yarn and mixture, including ribbed hose, in the greige.....				
2252451	Seamless hosiery shipped in the greige, excluding women's...	10,900	26,161	(NA)	10,583
2252000	Seamless hosiery, not specified by kind.....	xxx	...	xxx	4,364

See footnotes at end of table.

Table 6A.—QUANTITY AND VALUE OF PRODUCTS SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, FOR THE UNITED STATES: 1954 AND 1947—Continued

Product code	Product	1954			1947		
		Production		Garments made on a commission basis (quantity)	Total shipments including interplant transfers		Garments made on a commission basis (quantity)
		Quantity (1,000 dozen)	Value (\$1,000)		Quantity (1,000 dozen)	Value (\$1,000)	
2253--	Knit outerwear mills, total.....	xxx	666,220	xxx	xxx	373,212	xxx
22531	Sweaters, knit jackets, and jerseys.....	xxx	308,156	xxx	xxx	184,983	xxx
	Sweaters:						
	Men's sweaters, knit jackets, and jerseys:						
2253111	All wool.....	805	36,272	94	1,838	61,798	385
2253115	Part-wool (25% or more wool).....	103	4,853	93			
2253117	Other yarns.....	303	11,016	62			
	Boys' sweaters, knit jackets, and jerseys:						
2253121	All wool.....	221	7,574	159	371	8,344	72
2253125	Part-wool (25% or more wool).....	30	813	18			
2253127	Other yarns.....	176	3,192	99			
	Women's, misses', and juniors':						
	Pullover sweaters and jerseys:						
2253131	All wool.....	1,387	41,694	865	1,320	36,971	743
2253135	All nylon.....	310	8,256	NA			
2253137	Other yarns.....	1,385	41,827	868			
	Coats and cardigan sweaters:						
2253141	All wool.....	779	35,018	380	1,055	34,598	496
2253145	All nylon.....	120	3,895	(NA)			
2253147	Other yarns.....	1,406	49,783	973			
	Girls' and teen-age girls' sweaters and jerseys (sizes 7-16):						
2253151	All wool.....	149	3,817	52	340	7,840	199
2253155	All nylon.....	228	5,551	171			
2253157	Made from other yarns.....	267	8,482	208			
	Children's sweaters (sizes 2-8):						
2253161	All wool.....	194	4,329	102	1,753	30,614	1,027
2253167	Other yarns.....	543	10,830	202			
	Infants' sweaters and sacques (sizes 0-3):						
2253171	All wool.....	183	2,986	96	336		
2253177	Other yarns.....	452	7,346	336			
	Other knit products:						
2253181	Shawls and blankets, infants'.....	65	1,511	...	(NA)	( <sup>3</sup> )	(NA)
2253183	Wristlets and anklet cuffs.....	1,811	2,534	...	651	1,386	...
2253185	Collars, bottoms, and waistbands.....	1,146	3,402	...	(NA)	( <sup>3</sup> )	...
2253198	Other knit products.....	xxx	1,814	...	xxx	33,432	...
2253100	Sweaters, knit jackets, and jerseys, not specified by kind...	xxx	11,361	xxx	xxx	xxx	xxx
22532	Knit outerwear sport shirts.....	xxx	166,657	xxx	xxx	83,365	xxx
	Polo, tennis, basque, T, sweat, and other knit shirts:						
	Men's:						
2253211	Sweat shirts.....	1,515	18,350	...	766	8,938	(NA)
2253217	Polo, tennis, basque, T, and other knit shirts.....	6,387	58,435	502	5,431	37,863	687
	Boys' (sizes 4-20):						
2253221	Sweat shirts.....	194	1,934	...	358	2,823	...
2253227	Polo, tennis, basque, T, and other knit shirts.....	3,986	31,119	490	1,585	10,391	49
2253231	Women's, misses', and juniors'.....	1,521	22,332	548	556	5,740	164
2253241	Girls' and teen-age girls' (sizes 7-16).....	394	4,235	72	2,732	17,610	844
2253251	Children's and infants' (sizes 1-6X).....	3,936	29,146	537			
2253200	Knit outerwear sport shirts, not specified by kind.....	xxx	1,106	xxx	xxx	xxx	xxx
22533	Swimwear and athletic shorts.....	xxx	92,514	xxx	xxx	53,757	xxx
	Men's and boys':						
2253311	Knit swimwear.....	150	2,606	...	203	3,717	(NA)
2253321							
2253313							
2253315	Woven fabric swimwear and athletic shorts.....	1,324	25,669	237	1,029	16,879	(NA)
2253325							
2253331	Women's, misses', and juniors':						
	Knit bathing suits.....	29	2,414	19	144	7,090	5
	Woven fabric bathing suits:						
2253333	Elastic fabric.....	479	32,492	192	399	21,410	(NA)
2253335	Other than elastic fabric.....	262	13,099	108			

See footnotes at end of table.

## KNITTING MILLS

22C-19

Table 6A.—QUANTITY AND VALUE OF PRODUCTS SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, FOR THE UNITED STATES: 1954 AND 1947—Continued

Product code	Product	1954			1947		
		Production		Garments made on a commission basis (quantity)	Total shipments including interplant transfers		Garments made on a commission basis (quantity)
		Quantity (1,000 dozen)	Value (\$1,000)		Quantity (1,000 dozen)	Value (\$1,000)	
2253---	Knit outerwear mills--Continued						
22533	Swimwear and athletic shorts--Continued						
	Girls' and teen-age girls' (sizes 7-16):						
2253341	Knit bathing suits.....	50	1,088	...	63	1,212	(NA)
2253345	Woven fabric bathing suits.....	307	8,132	27	(4)	(4)	(NA)
	Children's and infants' (sizes 1-8):						
2253351	Knit swimwear and trunks.....	86	963	...	87	1,148	(NA)
2253355	Woven fabric swimwear and trunks.....	250	4,261	92	4109	4,301	(NA)
2253300	Swimwear and athletic shorts, not specified by kind.....	xxx	1,790	...	xxx	xxx	xxx
23230 pt.	Men's and boys' knit neckwear.....	xxx	4,936	xxx	xxx	3,123	xxx
2323013	Neckties:						
	Quantity reported.....	406	2,461	20	418	2,547	83
	Quantity not reported.....	xxx	1,422				
2323019	Other neckwear, including mufflers and scarfs:						
	Quantity reported.....	101	742	27	55	576	11
	Quantity not reported.....	xxx	311				
23250 pt.	Knit headwear.....	xxx	7,303	xxx	xxx	4,320	xxx
2325031	Men's and boys'.....	200	1,215	...	169	895	(NA)
2325035	Women's and misses' knit headwear, including head scarfs, fascinator, and hoods.....	607	6,088	...	403	3,425	(NA)
2333013	Women's, misses', and juniors', knit dresses and suits (made in knitting mills).....	374	41,180	199	(NA)	(NA)	(NA)
23690 pt.	Children's and infants' knit outerwear, n.e.c.....	xxx	27,413	xxx	xxx	24,404	xxx
2369054	Knit pantie suits (sizes 0-8).....	381	5,632	9	447	6,079	52
2369057	Knit creepers and rompers.....	667	8,905	36	496	5,660	102
2369062	Knit booties (sizes 0-3) (1,000 dozen pairs).....	186	702	68	324	1,435	266
2369067	Knit headwear.....	521	4,651	17	516	3,472	513
2369098	Other girls', children's and infants' knit outerwear.....	xxx	7,523	xxx	xxx	7,758	xxx
2253000	Knit outerwear and swimwear, not specified by kind.....	xxx	18,061	xxx	xxx	19,260	xxx
2254---	Knit underwear mills, total.....	xxx	574,779	xxx	xxx	357,197	xxx
23212 pt.	Men's and boys' knit nightwear.....	xxx	6,174	xxx	xxx	(NA)	xxx
2321261	Nightwear made from circular knit cotton and/or wool fabrics.	328	5,995	151	(6)	(6)	(6)
2321265	Nightwear made from circular knit silk, rayon, nylon and other man-made fibers.....	(NA)	179	(NA)	(7)	(7)	(7)
2321271	Men's and boys' nightwear made from warp knit fabrics, all fibers.....	(NA)	179	xxx	(8)	(8)	(8)
23220 pt.	Men's and boys' knit underwear.....	xxx	151,426	xxx	xxx	143,417	xxx
	Underwear made from circular knit cotton and/or wool fabrics:						
	Union suits:						
2322021	Men's heavyweight (9 lb. and over in size 42).....	515	10,207	...	1,592	29,874	1,621
2322023	Boys' heavyweight (6 lb. and over in size 34 or age 16)	102	1,026	...	588	6,550	626
2322025	Men's and boys' lightweight.....	305	4,234	...	924	10,662	976
	Undershirts:						
2322031	Men's and boys' heavyweight, 25% or more wool (7 lb. and over in size 42).....	114	2,861	...	93,010	919,860	92,946
2322033	Men's and boys' heavyweight, less than 25% wool, or all cotton, and mediumweight.....	297	3,531	79			
2322034	Men's and boys' lightweight, with 1/4 sleeves, (under 4 - 1/2 lb. in men's size 42).....	6,858	38,914	44	8,762	34,298	9,010
2322036	Men's sleeveless athletic type.....	6,599	25,484	24			
2322037	Boys' sleeveless athletic type.....	1,381	4,140	24	1,270	4,389	1,306
2322038	Men's and boys' balbriggan, three-button front.....	39	364	...	(9)	(9)	(9)
	Drawers:						
2322041	Heavyweight 25% or more wool (7 lb. and over in size 36)	192	4,002	...	298	3,913	309
2322047	Supporter type, including half, knee, and full-length..	764	6,706	...	786	5,843	835
2322049	All other, including balbriggan.....	233	2,675	...	229	1,918	258
	Shorts and brief:						
2322051	Men's and boys' knit shorts (loose-leg nonsupporter type).....	653	2,939	1	787	3,796	800
2322053	Men's briefs (supporter type).....	5,208	27,823	97	3,427	17,424	3,367
2322055	Boys' briefs (supporter type).....	3,650	13,206	81	1,137	4,890	1,102
2322061	Underwear made from warp knit fabrics, all fibers.....	67	545	xxx	824	8227	820
2322071	Underwear made from circular knit silk, rayon, nylon, and other man-made fabrics.....	602	2,769	12	7194	71,275	7199

See footnotes at end of table.



Table 6A.—QUANTITY AND VALUE OF PRODUCTS SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, FOR THE UNITED STATES: 1954 AND 1947—Continued

Product code	Product	1954			1947		
		Production		Garments made on a commission basis (quantity)	Total shipments including interplant transfers		Garments made on a commission basis (quantity)
		Quantity (1,000 dozen)	Value (\$1,000)		Quantity (1,000 dozen)	Value (\$1,000)	
2254--- 23411 pt.	Knit underwear mills—Continued Women's, and children's knit underwear.....	xxx	325,463	xxx	xxx	167,290	xxx
	Underwear made from circular knit cotton and/or wool fabrics: Women's, misses', and juniors':						
	Panties and bloomers:						
2341131	Tuckstitch.....	644	3,660	...	102,104	1010,404	102,081
2341132	Other than tuckstitch.....	1,211	6,186	...	102,299	1010,555	102,304
2341133	Vests, undershirts, and stepins.....	634	2,735	5	(10)	(10)	(10)
2341134	Union suits.....	198	2,276	...	529	5,727	540
	Girls' and children's (sizes 2-16):						
2341136	Panties and bloomers.....	4,650	11,852	133	3,824	11,972	3,782
2341137	Vests and undershirts.....	1,165	3,318	...			
2341138	Union suits, including waist suits.....	17	120	...	552	3,843	569
	Infants:						
2341141	Vests, shirts, and bands.....	3,139	9,777	58	3,942	13,429	3,970
2341142	Panties.....	2,308	5,798	59	2,736	7,203	2,727
	Underwear made from circular knit, silk, rayon, nylon and other man-made fibers:						
	Women's, misses', and juniors':						
2341151	Panties and bloomers.....	8,291	29,906	953	599	38,415	8,652
2341152	Vests, undershirts, and stepins.....	323	1,956	...			
2341153	Slips and gertrudes.....	418	8,178	148	384	4,619	387
2341157	Petticoats and half-slips.....	185	3,382	32			
2341159	Other underwear.....	(11)	(11)	(11)	(11)	(11)	(11)
	Girls', children's, and infants':						
2341161	Panties and bloomers.....	2,004	5,893	...	1,330	4,754	1,299
2341163	Vests and undershirts.....	39	160	...			
2341169	Other underwear.....	1146	11,459	1128	1133	11366	1154
	Underwear made from warp knit fabrics:						
	Women's, misses', and juniors':						
	Panties and bloomers:						
2341171	Chiefly nylon.....	3,800	30,193	468	5,453	36,528	5,522
2341172	Chiefly rayon and acetate.....	11,089	43,441	186			
	Vests, undershirts, and stepins:						
2341173	Chiefly nylon.....	85	790	2	757	16,177	744
2341174	Chiefly rayon and acetate.....	411	2,518	8			
	Slips and gertrudes:						
2341175	Chiefly nylon.....	2,619	82,490	438	239	4,305	131
2341176	Chiefly rayon and acetate.....	381	6,302	94			
	Petticoats and half-slips:						
2341177	Chiefly nylon.....	1,512	40,491	239	837	3,298	844
2341178	Chiefly rayon and acetate.....	312	4,305	131			
	Girls', children's, and infants':						
2341181	Panties and bloomers.....	3,377	11,660	264	xxx	xxx	xxx
2341185	Other warp knit underwear.....	566	7,544	22			
2341189	Other garments made from warp knit fabrics.....	xxx	73	xxx	xxx	xxx	xxx
23412 pt.	Women's and children's, knit nightwear.....	xxx	89,189	xxx	xxx	42,645	xxx
2341251	Knit bed jackets and shoulderettes.....	59	1,841	11	(12)	(12)	(12)
	Women's, misses', and juniors' nightwear made from circular knit fabrics:						
2341261	Chiefly cotton and/or wool.....	272	5,609	3	6 12 978	6 12 14,386	6 12 1,614
2341265	Chiefly silk, rayon, and other man-made fibers.....	239	4,165	...	12367	128,524	12352
2341267	Girls', children's, and infants' circular knit nightwear from silk, rayon, and other man-made fibers.....	29	451	...	9	121	9
	Women's, misses', and juniors', nightwear made from warp knit fabrics:						
2341271	Chiefly nylon.....	744	37,519	95	595	16,279	578
2341273	Chiefly rayon and acetate.....	635	12,218	190			
2341279	All other fibers.....	103	2,316	...			
	Children's and infants' nightwear made from circular cotton and/or wool knit fabrics (sizes 0-8):						
2341281	Heavyweight sleeping garments made with feet.....	1,094	14,735	...	402	3,335	414
2341289	Other nightwear, including gowns and kimonos.....	1,010	10,335	15			
2254000	Knit underwear, not specified by kind.....	xxx	2,527	xxx	xxx	2,343	xxx

See footnotes at end of table.

## KNITTING MILLS

22C-21

Table 6A.—QUANTITY AND VALUE OF PRODUCTS SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, FOR THE UNITED STATES: 1954 AND 1947—Continued

Product code	Product	Total shipments including interplant transfers			
		1954		1947	
		Quantity	Value	Quantity	Value
		(1,000 dozen pairs)	(\$1,000)	(1,000 dozen pairs)	(\$1,000)
2255---	Knit gloves and mittens, total.....	xxx	50,043	xxx	61,835
23810 pt.	Knit fabric dress and semi-dress gloves and mittens.....	xxx	38,891	xxx	52,953
	Men's and boys':				
	Seamed fingered gloves:				
2381011	50% or more wool content <sup>13</sup> .....	32	428	(14)	(14)
2381013	Cotton.....	207	602		
2381015	Rayon and acetate.....				
2381017	Nylon.....	26	238		
2381021	Seamless gloves 50% or more wool content <sup>13</sup> .....	155	1,496	15307	153,105
	Seamless mittens:				
2381025	50% or more wool content <sup>13</sup> .....	32	297	(15)	(15)
2381027	Other.....				
	Women's and misses':				
	Seamed fingered gloves				
2381031	50% or more wool content <sup>13</sup> .....	21	271	(14)	(14)
2381033	Cotton.....	922	14,021		
2381035	Rayon and acetate.....	154	1,813		
2381037	Nylon.....	1,018	12,680		
2381039	Other.....	29	292		
	Seamless gloves:				
2381041	50% or more wool content <sup>13</sup> .....	204	2,147	423	3,823
2381043	Other.....	92	1,042	(14)	(14)
	Seamless mittens:				
2381045	50% or more wool content <sup>13</sup> .....	148	1,058	372	2,633
2381047	Other.....	1	11		
2381051	Children's.....	403	2,055	(14)	(14)
2381055	Infants'.....	91	408		
2381098	Other dress and semi-dress gloves and mittens.....	11	32		
23820 pt.	Knit gloves and mittens.....	xxx	10,345	xxx	8,882
2382031	Fleeced cotton jersey.....	2,727	6,907	2,299	6,285
2382041	Light weight circular-knit.....	1,204	1,654	1,248	2,597
2382071	Terry cloth.....	384	1,784	(NA)	(NA)
2255000	Knit gloves and mittens, not specified by kind.....	xxx	807	xxx	xxx
		Shipments including interplant transfers			
		1954		1947	
		Total		Interplant transfers	For sale
		Quantity	Value		
		(1,000 pounds)	(\$1,000)	(1,000 pounds)	(1,000 pounds)
2256---	Knit fabrics, total.....	xxx	352,429	xxx	xxx
22561	Warp knit fabrics (including Raschel).....	xxx	175,334	xxx	xxx
	Underwear and nightwear fabrics:				
2256111	Nylon or chiefly nylon.....	25,634	105,714	5,797	19,837
2256113	Rayon or chiefly rayon.....	22,254	28,475	971	20,931
2256115	Other yarns and mixtures.....	1,906	3,253	231	1,675
2256121	Corset fabrics.....	1,019	3,655	(16)	161,019
2256131	Outerwear fabrics, except glove.....	4,064	12,918	(16)	164,064
2256141	Glove fabrics.....	3,048	11,237	496	2,552
2256151	Netting, including raschel-knit shoe netting:				
	Quantity reported.....	1,299	3,921	...	1,299
	Quantity not reported.....	xxx	828	...	(NA)
2256198	Other warp-knit fabrics.....	1,182	2,824	(16)	161,182
2256100	Warp-knit fabrics, not specified by kind.....	xxx	2,509	(NA)	...
22562	Circular knit fabrics.....	xxx	167,816	xxx	xxx
	Underwear and nightwear fabrics:				
2256211	Cotton or chiefly cotton.....	16,520	16,931	3,012	13,454
2256213	Rayon or chiefly rayon.....	14,810	12,915	(16)	1614,810
2256215	Other yarns and mixtures.....	579	937	(16)	16579

See footnotes at end of table.

Table 6A.—QUANTITY AND VALUE OF PRODUCTS SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, FOR THE UNITED STATES: 1954 AND 1947—Continued

Product code	Product	Shipments including interplant transfers					
		1954				1947	
		Total		Interplant transfers	For sale	Quantity	Value
		Quantity	Value				
		(1,000 pounds)	(\$1,000)	(1,000 pounds)	(1,000 pounds)	(1,000 pounds)	(\$1,000)
2256---	Knit fabrics—Continued						
22562	Circular-knit fabrics—Continued						
	Outerwear fabrics, excluding glove fabrics:						
2256231	Overcoating, topcoating, and ski and snow suit fabrics (including fleeces).....	15,417	38,853	...	15,417	7,792	14,890
2256233	Dress and suiting fabrics.....	8,509	26,194	...	8,509	4,347	8,646
2256235	Polo shirt type fabrics.....	24,591	31,058	(16)	1624,591	14,524	18,195
2256239	Other circular-knit outerwear fabrics, excluding glove fabrics.....	1,175	1,889	(16)	161,175	3,005	5,136
	Glove and mitten fabrics:						
2256251	Work-glove cotton jersey, including balbriggan.....	4,244	3,276	...	4,244	4,705	3,881
2256253	Work-glove cotton ribbed tubing.....	4,627	3,188	...	4,652	7,556	5,534
2256255	Other circular-knit glove and mitten fabrics.....	910	1,069	...	910	1,661	1,622
	Other circular-knit fabrics:						
2256271	Footwear lining.....	2,956	3,526	...	2,956	6,970	6,937
2256273	Meat bagging and other stockinette fabrics.....	9,792	7,216	...	9,792	10,058	8,083
2256275	Elastic girdle blanks and elastic fabrics.....	3,004	6,527	(16)	163,004	3,599	6,154
2256298	Other circular-knit fabrics.....	8,087	10,694	...	8,172	4,479	5,232
2256200	Circular-knit fabrics, not specified by kind.....	(NA)	3,543	(NA)	(NA)	xxx	xxx
2256000	Knit fabrics, not specified by kind.....	(NA)	9,279	(NA)	(NA)	(NA)	696
2259---	Knitting mill products, not elsewhere classified, total.....	xxx	12,872	xxx	xxx	xxx	11,561
	Knitted wash cloths, dishcloths, and towels:						
2259011	Warp-knit.....	2,931	3,702	...	2,931	xxx	6,343
2259015	Circular-knit.....	2,514	3,688	50	2,464		
2259098	Other knit products, not elsewhere classified.....	xxx	5,482	xxx	xxx	xxx	5,218

xxx Not applicable.

NA Not available.

<sup>1</sup>For 1947, the value of women's and misses' full-fashioned finished hosiery was estimated because of undercoverage in the reporting by hosiery jobbers of finished hosiery made from purchased greige goods in that year. The value was estimated by multiplying the number of dozens shipped in the greige by the per dozen value of finished goods made from purchased greige goods; this value, \$117,004 thousand, when added to the value of finished goods made from own yarns, \$308,138 thousand, provides an estimated total value of \$425,142 thousand.

<sup>2</sup>For 1947 a portion of the value of women's and misses' seamless hosiery was estimated because of undercoverage in the reporting by hosiery jobbers of finished hosiery made from purchased greige goods in that year. The value was estimated by multiplying the number of dozens shipped in the greige by the per dozen value of finished goods made from purchased greige goods; this value, \$8,294 thousand, when added to the value of finished goods made from own yarns, \$45,210 thousand provides an estimated total value of \$53,504 thousand.

<sup>3</sup>Other knit products" also include product code 2253181 and 2253185.

<sup>4</sup>Product code 2253345 combined with product code 2253355.

<sup>5</sup>Of this total \$303 thousand was shipped by plants classified in Industry 2253, and is believed to represent knit swimwear.

<sup>6</sup>Combines products 2321261 and 2341261.

<sup>7</sup>Combines products 2321265 and 2322071.

<sup>8</sup>Combines products 2321271 and 2322061.

<sup>9</sup>Includes product code 2322038.

<sup>10</sup>Product 2341133 distributed between 2341131 and 2341132.

<sup>11</sup>Product 2341159 combined with 2341169.

<sup>12</sup>Product 2341251 distributed between 2341261 and 2341265.

<sup>13</sup>The 1947 reporting form requested 25% or more wool content; the effect of the change to 50% or more wool for 1954 is believed to be negligible.

<sup>14</sup>Included in "other dress and semi-dress gloves and mittens." Figures on dress and semi-dress gloves and mittens as reported by type were not considered reliable enough to be presented separately. A distribution by type has been presented for 1947 with Facts for Industry series M67D-08.

<sup>15</sup>Product code 2381021 combined with 2381025.

<sup>16</sup>Quantities shipped as "Interplant Transfers" to other plants of the same company are combined with data "For sale" in order to avoid disclosing the operations of individual companies.

<sup>17</sup>Includes wool or chiefly wool knit fabrics.



## KNITTING MILLS

22C-23

Table 6B.—VALUE OF PRODUCT CLASSES SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, BY DIVISIONS AND STATES FOR 1954, AND UNITED STATES TOTALS FOR EARLIER YEARS

(In thousands of dollars. Statistics are shown for selected product classes which are economically significant and production of which is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (Table 2) and they are not miscellaneous or "not specified by type" classes. For each product class, States are listed only if the value of shipments is more than \$1 million and the figure does not disclose individual company information. Additional States which had shipments of more than \$1 million of the individual product classes are listed in footnote 1)

Product class, region, and State <sup>1</sup>	Value of shipments	Product class, region, and State <sup>1</sup>	Value of shipments	Product class, region, and State <sup>1</sup>	Value of shipments
<u>Finished full-fashioned hosiery</u> (22511)		<u>Full-fashioned hosiery shipped in the greige (22512)—Continued</u>		<u>All other finished seamless hosiery (22523)—Continued</u>	
1954 United States, total.....	347,176	West South Central.....	2,389	Middle Atlantic.....	12,818
1953 United States, total.....	338,663			New York.....	2,224
1952 United States, total.....	357,108			Pennsylvania.....	10,352
1951 United States, total.....	389,821	<u>Women's finished seamless hosiery (22521)</u>			
1950 United States, total.....	427,593	1954 United States, total.....	64,976	East North Central.....	8,341
1947 United States, total.....	2426,495	1947 United States, total.....	253,504		
1954		1954		South Atlantic.....	72,293
New England.....	15,514	Middle Atlantic.....	4,113	Virginia.....	2,970
Middle Atlantic.....	101,405	Pennsylvania.....	3,336	North Carolina.....	53,987
New York.....	14,844			Georgia.....	12,771
New Jersey.....	3,722	East North Central.....	6,860	East South Central.....	39,212
Pennsylvania.....	82,838	Wisconsin.....	1,154	Kentucky.....	4,029
North Central.....	31,589			Tennessee.....	29,830
Indiana.....	11,015	South Atlantic.....	35,147		
Illinois.....	4,486	North Carolina.....	32,854	<u>Knit sweaters, jackets, jerseys, and pullovers (22531)</u>	
Wisconsin.....	11,890	Georgia.....	1,625	1954 United States, total.....	308,156
South Atlantic.....	156,436	East South Central.....	16,886	1947 United States, total.....	184,983
Maryland.....	1,146	Tennessee.....	16,886	1954	
Virginia.....	9,258			New England.....	18,131
North Carolina.....	135,219	<u>Men's finished seamless hosiery (22522)</u>		Massachusetts.....	14,505
South Carolina.....	1,439	1954 United States, total.....	194,443	Middle Atlantic.....	232,255
Georgia.....	8,467	1953 United States, total.....	209,711		
East South Central.....	32,145	1952 United States, total.....	218,222	New York.....	167,117
Tennessee.....	23,995	1951 United States, total.....	212,829	New Jersey.....	20,144
West South Central.....	3,646	1950 United States, total.....	187,684	Pennsylvania.....	44,994
Pacific.....	6,441	1947 United States, total.....	180,441		
California.....	6,441	1954		East North Central.....	29,009
<u>Full-fashioned hosiery shipped in the greige (22512)</u>		New England.....	4,685	Ohio.....	25,786
1954 United States, total.....	132,585	New Hampshire.....	1,709	Wisconsin.....	1,458
1947 United States, total.....	81,858	Massachusetts.....	1,347	West North Central.....	2,398
1954		Middle Atlantic.....	22,920	Minnesota.....	2,393
Middle Atlantic.....	32,499	Pennsylvania.....	16,836	South Atlantic.....	6,880
New Jersey.....	2,859	East North Central.....	12,118	North Carolina.....	2,187
Pennsylvania.....	28,939	Illinois.....	6,118	West.....	15,705
East North Central.....	1,863	South Atlantic.....	139,890	Pacific.....	15,568
Illinois.....	1,074	North Carolina.....	105,917	<u>Knit outerwear sport shirts (22532)</u>	
West North Central.....	1,125	Georgia.....	10,881	1954 United States, total.....	160,657
South Atlantic.....	73,472	East South Central.....	14,049	1947 United States, total.....	83,365
Maryland.....	1,044	Tennessee.....	8,859	1954	
Virginia.....	11,503	Mississippi.....	1,564	New England.....	15,790
North Carolina.....	44,779	<u>All other finished seamless hosiery (22523)</u>		Massachusetts.....	8,058
South Carolina.....	5,612	1954 United States, total.....	136,722	Middle Atlantic.....	90,461
Georgia.....	8,360	1947 United States, total.....	84,186		
Florida.....	1,036	1954		New York.....	54,851
East South Central.....	19,751	New England.....	3,146	New Jersey.....	3,158
Tennessee.....	8,165			Pennsylvania.....	32,452
Mississippi.....	5,531				

See footnotes at end of table.

## MANUFACTURES—INDUSTRY STATISTICS

Table 6B.—VALUE OF PRODUCT CLASSES SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, BY DIVISIONS AND STATES FOR 1954,  
AND UNITED STATES TOTALS FOR EARLIER YEARS--Continued

Product class, region, and State <sup>1</sup>	Value of shipments	Product class, region, and State <sup>1</sup>	Value of shipments	Product class, region, and State <sup>1</sup>	Value of shipments
<u>Knit outerwear sport shirts (22532)</u> —Continued		<u>Swimwear and athletic shorts (22533)</u> —Continued		<u>Warp knit fabrics (22561)</u> —Continued	
East North Central.....	11,837	Middle Atlantic.....	46,644	South Atlantic.....	60,820
Ohio.....	8,592	New York.....	28,188	Virginia.....	14,545
Illinois.....	1,217	Pennsylvania.....	17,780	North Carolina.....	39,944
West North Central.....	2,907	North Central.....	1,395	East South Central.....	14,594
South Atlantic.....	29,445	East North Central.....	1,095	<u>Circular knit fabrics (22562)</u>	
Virginia.....	12,419	South Atlantic.....	2,066	1954 United States, total.....	167,816
North Carolina.....	9,314			1947 United States, total.....	125,837
South Carolina.....	2,480			1954	
Georgia.....	3,593	South Carolina.....	1,020	New England.....	60,460
East South Central.....	13,440	Pacific.....	37,215	Massachusetts.....	41,183
Tennessee.....	5,460	<u>Warp knit fabrics (22561)</u>		Middle Atlantic.....	61,840
Alabama.....	7,980	1954 United States, total.....	175,334	New York.....	40,137
Pacific.....	2,648	1947 United States, total.....	70,557	New Jersey.....	13,134
		1954		Pennsylvania.....	8,569
<u>Swimwear and athletic shorts (22533)</u>				East North Central.....	5,257
1954 United States, total.....	92,514	New England.....	8,985	Wisconsin.....	3,476
1947 United States, total.....	53,757	Middle Atlantic.....	86,860	South Atlantic.....	22,004
1954		New York.....	35,636	North Carolina.....	10,906
New England.....	5,153	New Jersey.....	7,430	East South Central.....	16,188
Connecticut.....	3,952	Pennsylvania.....	43,793		

Note: The figures shown for 1950 to 1953 are sample estimates obtained from the Annual Survey of Manufactures for those years. Since the estimates are based on a sample they are subject to sampling variability, that is, they may not be the same as figures which would have been obtained if complete censuses had been taken for those years. Measures of the sampling variability (standard errors) of the estimated total value of shipments of each product class are shown in the Annual Survey of Manufactures publications. Also shown are the standard errors of the relative change in shipments between some consecutive Annual Survey years which are the more significant measures when the series is studied for trend.

<sup>1</sup>For the specified product classes, shipments of over \$1 million were reported for the states listed but the exact figures are withheld to avoid disclosure of individual company figures: 22511, New Hampshire, Massachusetts, Minnesota, Iowa, Kentucky, Mississippi, and Texas; 22512, Alabama, Arkansas, and Texas; 22521, Indiana, and Illinois; 22522, Connecticut, New York, New Jersey, Ohio, Michigan, Virginia, West Virginia, Kentucky, and Alabama; 22523, New Hampshire, Massachusetts, Indiana, Illinois, Wisconsin, Delaware, Virginia, Alabama, and Mississippi; 22531, New Hampshire, West Virginia, Texas, Oregon, and California; 22532, New Hampshire, Rhode Island, Indiana, Minnesota, Maryland, and California; 22533, Massachusetts, Washington, Oregon, and California; 22561, Rhode Island, Connecticut, Minnesota, South Carolina, Tennessee, Alabama, and California; 22562, Rhode Island, Connecticut, Virginia, South Carolina, Georgia, Tennessee, and Alabama.

<sup>2</sup>The 1947 data include estimates for undercoverage in the reporting by hosiery jobbers; see footnotes to Table 6A.

## KNITTING MILLS

22C-25

Table 7.—MATERIALS CONSUMED, BY KIND: 1954

Code	Description of materials	Industry 2251— Full-fashioned hosiery mills		Industry 2252— Seamless hosiery mills			
		Quantity (1,000 lbs.)	Value (\$1,000)	Quantity (1,000 lbs.)	Value (\$1,000)		
	Materials, containers and supplies, total.....	xxx	( <sup>1</sup> )	xxx	210,960		
222111	Cotton yarns.....	2,139	3,035	72,966	70,386		
222121	Rayon and acetate yarns <sup>2</sup> .....	201	564	4,587	4,414		
222131	Nylon yarns.....	20,559	84,105	13,513	50,049		
222141	Wool yarns.....	43	116	2,885	5,177		
970000	All other materials, including staple, purchased knit fabrics, containers, supplies and yarns not specified by kind.....	xxx	( <sup>1</sup> )	xxx	80,934		
		Industry 2253—Knit outerwear mills		Industry 2254—Knit underwear mills			
	Materials, containers and supplies, total.....	xxx	239,010	xxx	137,422		
222111	Cotton yarns.....	45,924	37,075	95,014	72,617		
222121	Rayon and acetate yarns.....	2,814	4,682	3,923	3,717		
222131	Nylon yarns.....	5,655	14,590	3,034	9,317		
222141	Wool yarns.....	29,256	76,365	1,867	2,897		
970000	All other materials, including staple, purchased knit fabrics, containers, supplies and yarns not specified by kind.....	xxx	106,298	xxx	48,874		
		Industry 2255— Knit gloves mills		Industry 2256— Knit fabric mills		Industry 2259— Knitting mills, n.e.c.	
		Quantity (1,000 lbs.)	Value (\$1,000)	Quantity (1,000 lbs.)	Value (\$1,000)	Quantity (1,000 lbs.)	Value (\$1,000)
	Materials, containers and supplies, total.....	xxx	4,984	xxx	243,081	xxx	8,500
222111	Cotton yarns.....	260	321	43,526	34,985	7,951	4,839
222121	Rayon and acetate yarns.....	}	}	35,196	29,001	2,714	1,675
222131	Nylon yarns.....			24,804	69,906	77	155
222141	Wool yarns.....			11,334	25,199	35	76
970000	All other materials, including staple, purchased knit fabrics, containers, supplies and yarns not specified by kind.....	xxx	2,401	xxx	83,990	xxx	1,755

xxx Not applicable.  
filament rayon yarns.

<sup>1</sup>Omitted because of substantial but indeterminate duplication in value of shipments and cost of materials.

<sup>2</sup>Represents



Table 8.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY INDUSTRY SPECIALIZATION AND PRIMARY PRODUCT CLASS SPECIALIZATION, FOR THE UNITED STATES: 1954

(This table presents selected statistics for establishments classified according to their degree of specialization in products primary to the industry. The establishments are classified in two ways: (1) by industry specialization—the degree of specialization in all primary products of the industry; and (2) by product-class specialization—the degree of specialization in the largest product class of the establishment. The degree of "industry specialization" for an establishment represents the ratio of its primary product shipments to its total product shipments, primary and secondary. The degree of "product-class specialization" for an establishment represents the ratio of its largest product class shipments to its total product shipments, primary and secondary. Data are not shown for some industries, product classes, and specialization ranges for a variety of reasons, consequently, detailed figures frequently do not add to the totals. See Introduction for detailed explanation)

Ind. or product class No.	Industry or product class by percent of specialization	Establishments, number	All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
2251	FULL-FASHIONED HOSIERY MILLS (entire industry).....	789	60,150	178,454	55,023	101,925	151,619	266,993		
	Establishments with:									
	90% or more specialization.....	657	48,059	144,986	43,819	81,194	123,635	216,546	(1)	(1)
	75-89% specialization.....	12	3,594	10,931	3,318	5,886	9,097	19,656		
	50-74% specialization.....	15	2,327	6,768	2,105	4,075	5,538	11,196		
	All other <sup>2</sup> .....	105	6,169	15,768	5,779	10,768	13,347	19,593		
22511	Finished full-fashioned hosiery:									
	All establishments specializing in product class.	267	37,602	111,147	33,787	61,955	91,341	173,704	197,020	370,725
	Establishments with:									
	90% or more specialization.....	208	26,707	78,686	23,973	43,670	64,678	122,394	142,593	264,987
	75-89% specialization.....	23	5,254	15,919	4,799	8,664	13,403	27,397	21,837	49,235
22512	Full-fashioned hosiery shipped in the greige:									
	All establishments specializing in product class.	338	17,621	54,985	16,586	31,389	49,637	76,954	50,470	127,424
	Establishments with:									
	90% or more specialization.....	305	16,263	50,981	15,325	29,003	46,091	71,360	45,229	116,589
	75-89% specialization.....	18	615	1,975	558	1,051	1,698	2,685	2,093	4,779
2252	SEAMLESS HOSIERY MILLS (entire industry).....	609	63,350	135,481	59,656	105,905	117,455	202,477	226,773	429,251
	Establishments with:									
	90% or more specialization.....	545	54,576	116,528	51,348	90,736	101,144	178,281	198,367	376,648
	75-89% specialization.....	8	3,517	6,991	3,361	6,036	6,133	8,014	8,921	16,936
	50-74% specialization.....	16	3,921	9,313	3,674	6,931	7,788	12,779	17,990	30,770
	All other <sup>2</sup> .....	40	1,335	2,649	1,271	2,201	2,389	3,402	1,493	4,896
22521	Women's finished seamless hosiery:									
	All establishments specializing in product class.	32	6,237	17,190	5,938	11,598	15,378	30,417	16,406	46,824
	Establishments with:									
	90% or more specialization.....	21	4,957	14,455	4,732	9,327	12,906	26,688	13,171	39,859
	75-89% specialization.....	5	445	919	413	770	828	1,261	1,372	2,633
	50-74% specialization.....	6	835	1,815	792	1,500	1,642	2,467	1,863	4,331
22522	Men's finished seamless hosiery:									
	All establishments specializing in product class.	229	26,007	57,038	24,222	43,039	48,791	87,087	113,723	200,811
	Establishments with:									
	90% or more specialization.....	173	15,824	34,099	14,760	25,934	29,279	53,699	70,024	123,724
	75-89% specialization.....	20	4,291	9,707	3,994	7,300	8,425	14,070	15,022	29,093
	50-74% specialization.....	31	4,580	10,407	4,248	7,699	8,848	15,525	23,545	39,071
	Less than 50% specialization.....	5	1,311	2,824	1,220	2,105	2,238	3,790	5,131	8,922
22523	All other finished seamless hosiery:									
	All establishments specializing in product class.	177	22,401	43,356	21,165	36,488	37,164	60,706	69,708	130,415
	Establishments with:									
	90% or more specialization.....	139	15,139	28,261	14,339	24,689	24,512	41,344	37,781	79,126
	75-89% specialization.....	13	1,750	3,810	1,608	2,903	3,161	4,080	9,238	13,319
	50-74% specialization.....	22	3,694	7,745	3,480	5,909	6,503	11,014	17,899	28,913
	Less than 50% specialization.....	3	1,817	3,539	1,737	2,986	2,987	4,267	4,789	9,056
22524	Seamless hosiery sold as greige goods:									
	All establishments specializing in product class.	80	4,859	9,935	4,679	8,110	8,987	13,292	17,579	30,872
	Establishments with:									
	90% or more specialization.....	70	4,552	9,256	4,384	7,557	8,388	12,351	16,680	29,032
2253	KNIT OUTERWEAR MILLS "MANUFACTURERS" (all establishments,	550	30,052	87,659	26,854	49,715	66,726	134,454	164,284	298,739
Pt.A	Establishments with:									
	90% or more specialization.....	436	22,169	67,325	19,816	36,623	51,364	104,763	123,692	228,456
	75-89% specialization.....	25	2,124	5,409	1,938	3,585	4,287	8,544	10,078	18,623
	50-74% specialization.....	22	4,475	11,812	3,943	7,295	8,579	16,180	22,877	39,058
	All other <sup>2</sup> .....	67	1,283	3,112	1,156	2,211	2,495	4,966	7,635	12,601
22531	Knit sweaters, jackets, jerseys and pullovers									
Pt.A	"Manufacturers:"									
	All establishments specializing in product class.	272	15,556	49,328	13,680	25,557	36,459	75,845	94,766	170,612
	Establishments with:									
	90% or more specialization.....	223	10,636	32,812	9,688	17,941	26,346	52,029	66,887	118,917
	75-89% specialization.....	22	1,253	3,776	1,130	2,113	2,769	6,282	7,855	14,138
	50-74% specialization.....	22	3,160	11,327	2,420	4,669	6,340	16,047	16,669	32,717

See footnotes at end of table.

## KNITTING MILLS

22C-27

Table 8.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY INDUSTRY SPECIALIZATION AND PRIMARY PRODUCT CLASS SPECIALIZATION, FOR THE UNITED STATES: 1954—Continued

Ind. or product class No.	Industry or product class by percent of specialization	Establishments, number	All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
2253	KNIT OUTERWEAR MILLS "MANUFACTURERS"—Continued									
22532	Knit outerwear sport shirts:									
Pt.A	All establishments specializing in product class.	61	7,732	18,609	7,134	12,853	15,175	26,849	35,793	62,643
	Establishments with:									
	90% or more specialization.....	33	2,033	4,454	1,890	3,200	3,667	7,493	9,376	16,869
	75-89% specialization.....	8	1,366	3,299	1,284	2,350	2,863	4,983	6,748	11,732
22533	Knit swimwear and athletic shorts "Manufacturers:"									
Pt.A	All establishments specializing in product class.	12	663	2,013	604	1,110	1,588	3,682	3,163	6,846
	Establishments with:									
	90% or more specialization.....	7	484	1,500	448	823	1,204	2,675	2,317	4,992
23330	Women's, misses' and juniors' knit dresses									
Pt.A	"Manufacturers:"									
	All establishments specializing in product class.	23	1,558	5,403	1,370	2,357	4,083	8,675	8,292	16,968
	Establishments with:									
	90% or more specialization.....	18	935	3,060	844	1,449	2,491	4,629	4,217	8,847
23690	Children's knit outerwear, n.e.c. "Manufacturers:" <sup>3</sup>									
Pt.A	All establishments specializing in product class.	15	1,507	3,852	1,426	2,927	3,237	5,298	4,980	10,279
	Establishments with:									
	75% or more specialization.....	6	442	1,226	420	844	1,018	2,229	1,321	3,551
2253	KNIT OUTERWEAR MILLS "CONVERTERS" (all establishments).	147	3,689	15,197	2,474	3,958	5,772	42,228	130,944	173,169
Pt.B	Establishments with:									
	90% or more specialization.....	138	2,841	12,655	1,809	2,838	4,299	37,222	117,055	154,277
	75-89% specialization.....	3	546	1,682	431	747	994	2,900	7,564	10,465
22531	Knit sweaters, jackets, jerseys and pullovers									
Pt.B	"Converters:"									
	All establishments specializing in product class.	114	2,457	11,295	1,528	2,554	3,816	31,133	99,338	130,471
	Establishments with:									
	90% or more specialization.....	94	1,710	7,462	1,040	1,792	2,588	20,810	72,503	93,313
	75-89% specialization.....	8	254	1,167	195	224	343	3,478	7,997	11,435
2254	KNIT UNDERWEAR MILLS (entire industry).....	149	31,262	77,501	28,248	51,204	63,095	110,591	145,699	256,291
	Establishments with:									
	90% or more specialization.....	101	18,619	46,105	16,803	30,625	37,455	77,760	93,779	165,540
	75-89% specialization.....	13	4,493	10,704	4,195	7,309	9,271	13,318	15,408	28,727
23220	Men's and boys' knit underwear: <sup>3</sup>									
Pt.	All establishments specializing in product class.	63	18,100	45,044	16,673	30,196	37,465	63,663	88,506	152,169
	Establishments with:									
	90% or more specialization.....	29	5,995	15,439	5,429	10,260	12,374	23,985	37,554	61,540
	75-89% specialization.....	5	386	917	354	565	723	1,396	1,948	3,344
	50-74% specialization.....	23	9,848	24,060	9,189	16,502	20,599	32,891	41,458	74,350
	Less than 50% specialization.....	6	1,870	4,627	1,700	2,868	3,768	5,390	7,545	12,935
23411	Women's and children's knit underwear: <sup>3</sup>									
	All establishments specializing in product class.	51	8,108	18,953	7,331	13,162	15,859	28,953	36,437	65,391
	Establishments with:									
	90% or more specialization.....	16	849	2,077	767	1,259	1,536	3,148	3,379	6,528
	75-89% specialization.....	10	2,363	5,711	2,169	4,294	4,869	8,701	13,895	22,597
	50-74% specialization.....	21	3,289	7,030	2,878	4,815	5,753	10,575	11,750	22,326
	Less than 50% specialization.....	4	1,607	4,135	1,516	2,794	3,701	6,528	7,411	13,939
23412	Women's and children's knit nightwear: <sup>3</sup>									
	All establishments specializing in product class.	12	1,386	3,535	1,210	2,272	2,747	6,487	5,523	12,011
	Establishments with:									
	90% or more specialization.....	4	766	2,117	633	1,163	1,539	4,099	3,675	7,774

See footnotes at end of table.

## MANUFACTURES—INDUSTRY STATISTICS

Table 8.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY INDUSTRY SPECIALIZATION AND PRIMARY PRODUCT CLASS SPECIALIZATION, FOR THE UNITED STATES: 1954—Continued

Ind. or product class No.	Industry or product class by percent of specialization	Estab-lish-ments, number	All employees		Production workers			Valu. added by manufacture (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
2256 Pt.A	KNIT FABRIC MILLS "MANUFACTURERS" (all establishments).	234	12,218	40,744	10,739	21,611	31,362	81,739	206,500	288,239
	Establishments with:									
	90% or more specialization.....	191	8,648	30,178	7,570	15,529	22,917	61,830	169,362	231,191
	75-89% specialization.....	4	519	1,663	455	929	1,488	2,312	3,968	6,281
	50-74% specialization.....	12	2,649	7,787	2,352	4,459	6,092	16,032	26,897	42,929
	All other <sup>2</sup> .....	27	402	1,115	360	693	865	1,565	6,271	7,837
22561 Pt.A	WARP KNIT FABRICS "MANUFACTURERS" (all establishments).	83	6,029	19,781	5,308	10,820	15,625	39,799	102,141	141,940
	Establishments with:									
	90% or more specialization.....	72	3,346	12,173	2,865	6,105	9,158	24,834	75,026	99,861
22562 Pt.A	Circular knit fabrics "Manufacturers:"									
	All establishments specializing in product class.	91	5,365	18,184	4,714	9,367	13,799	36,499	85,923	122,423
	Establishments with:									
	90% or more specialization.....	80	4,539	15,085	4,068	8,102	11,833	30,226	77,192	107,419
22562 Pt.B	Circular knit fabrics "Converters:"									
	All establishments specializing in product class.	14	1,008	3,632	806	1,828	2,311	8,837	37,635	46,473
	Establishments with:									
	90% or more specialization.....	9	339	1,460	209	462	653	2,733	17,581	20,315
2259	KNITTING MILLS, N.E.C. (entire industry).....	46	1,359	3,950	1,167	2,218	2,846	7,059	8,746	15,805
	Establishments with:									
	90% or more specialization.....	31	558	1,687	472	903	1,150	3,563	4,017	7,581

Note: Plant specialization data are not shown for industries 2253 and 2256 as a whole since specialization ratios for contractors were not computed. Such ratios would not be meaningful since they could relate to only a minor portion of the contractors' total activity, that is, production on own account from materials owned by them, and would not be representative of the activity of these establishments as a whole.

<sup>1</sup>Omitted because of duplication in the cost of materials and value of product shipped (see introductory text for this industry).

<sup>2</sup>This class includes data for establishments with less than 50% specialization in the primary products of the industry, and for Industries 2251 and 2252 only, also includes establishments engaged exclusively in contract work defined in the industry. Miscellaneous small statistical adjustments are also included.

<sup>3</sup>Represents establishments specializing in the production of the specified knit garment from fabric knit in these establishments.

Table 9.—PERCENT DISTRIBUTION OF SHIPMENTS OF THE FULL-FASHIONED AND SEAMLESS HOSIERY INDUSTRIES, BY CLASS OF CUSTOMER: 1954

Class of Customer	Percent of total value of shipments and interplant transfers								
	Full-fashioned and seam- less hosiery industries			Industry 2251-- Full-fashioned hosiery			Industry 2252-- Seamless hosiery		
	Total	Hosiery	Other products	Total	Hosiery	Other products	Total	Hosiery	Other products
Shipments including interplant transfers, total.....	100	100	100	<sup>1</sup> 100	100	100	<sup>1</sup> 100	100	100
Shipments to or on orders from wholesalers and distributors.....	27	28	31	18	18	8	39	39	41
Shipments to other manufacturing companies and converters.....	8	7	41	8	8	37	8	7	43
Shipments on direct orders from retailers:									
Chain stores and mail-order houses.....	25	25	11	20	20	19	32	32	7
Independent retail stores.....	11	12	7	15	15	7	7	7	7
Department stores.....	14	14	4	19	19	7	8	8	2
Shipments to retail stores owned by reporting company and company owned subsidiaries.....	1	(Z)	(Z)	...	(Z)	1	(Z)	(Z)	...
Interplant transfers (shipments to other manufacturing plants of reporting company in the United States).....	12	12	6	18	18	20	5	6	...
Direct export.....	1	1	(Z)	1	1	1	(Z)	(Z)	...
Other customers, including government.....	1	1	...	1	1	...	1	I	...

Z Less than 0.5 percent. <sup>1</sup>Value figures are not shown because of duplication in the value figures for the industries. Percentages shown by class of customer are based on reports from establishments accounting for 89 percent of the value of products shipped by the Full-Fashioned Hosiery Industry and 92 percent in the Seamless Hosiery Industry, respectively.



## Carpets, Rugs, and Other Floor Coverings

This report shows 1954 Census of Manufactures statistics for establishments classified into each of the following industries:

Code	Title
2271—	Wool Carpets and Rugs
2273—	Carpets and Rugs, Except Wool
2274—	Hard-Surface Floor Coverings

2271—Wool Carpets and Rugs (Full Standard Industrial Classification Title: Wool Carpets, Rugs, and Carpet Yarn)

Industry 2271, Wool carpets and rugs, comprises establishments primarily engaged in weaving carpets and rugs wholly or in part of woolen or worsted yarn. This industry also includes establishments primarily engaged in spinning woolen or worsted yarn for use in carpets and rugs. Important products of this industry include woven wool carpets and rugs (Axminster, Wilton, plain or printed velvet, chenille, Smyrna); wool automobile and aircraft floor covering; and woolen and worsted system carpet yarn.) Establishments primarily engaged in spinning woolen or worsted yarn for other than carpets and rugs are classified in Census Industry 2212 (part of Standard Industrial Classification 2221), Yarn mills (except carpet) wool. For a detailed list of products of Industry 2271, refer to Table 6A, product codes 2271111 to 2271231.

The value of shipments and cost of materials for this industry contain extensive duplication. This duplication results from the shipments of carpet yarn from yarn spinning establishments classified in this industry to the carpet mills also classified in this industry. Because of this duplication, total value of shipments and cost of materials have been omitted from all tables. This duplication does not affect value added by manufacture and other statistics shown in the tables.

In addition to the shipments of wool carpets and rugs, and woolen and worsted carpet yarns (primary products), establishments in this industry also shipped \$44 million of secondary products, mainly tufted carpets and rugs, man-made fiber woven rugs and woolen and worsted yarns, except carpet. The industry also had \$4 million of miscellaneous receipts, primarily for commission work done on materials owned by others. The exact relationship of this industry's primary product shipments to its total product shipments (primary and secondary) has not been shown in Table 5A because of the duplication in shipments mentioned above. However, this ratio is quite high (over 90 percent). Since the value of secondary products shipped by the industry was low compared to the value of its primary products.

Industry 2271 shipments of wool carpets and rugs in 1954 represented 99 percent of the total value of these products (\$342 million) shipped by all industries. In 1947, the industry accounted for 97 percent. The industry's shipments of woolen and worsted system carpet yarns in 1954 represented 98 percent of the total value of these products (\$78 million) shipped by all industries. In 1947, the ratio was also 98 percent.

A large part of the total yardage of wool carpets and rugs is produced in large integrated mills, engaged in fiber preparation, spinning of yarn on the woolen system, dyeing, and weaving. The smaller mills in the industry are engaged either in weaving (using purchased yarn), or in producing yarn for sale.

Carpet wool is the major material used in the surface pile, although the consumption of rayon and other man-made fibers for surface pile showed a significant increase in 1954 as compared to 1947. The backing materials consist of jute

yarns produced in Industry 2297, Jute goods, except felt, and cotton yarns, supplied mainly by cotton-system yarn mills, Industry 2224.

2273—Carpets and Rugs, Except Wool (Full Standard Industrial Classification Title: Carpets, Rugs, and Mats from Fiber, Except Wool)

Industry 2273, Carpets and Rugs, except wool comprises establishments primarily engaged in manufacturing rugs, carpets, art squares, floor mattings, and door mats and mattings from any fiber except wool. Materials used include cotton, rayon, nylon, twisted paper, grasses, reeds, coir (cocoa fiber), sisal, jute, and rags. Establishments primarily engaged in dyeing floor coverings (other than wool) are also classified in this industry. For a detailed list of products of Industry 2273, refer to Table 6A, product codes 2273111 to 2273351.

The value of shipments of Industry 2273 in 1954 totaled \$175 million. This included shipments of primary products (carpets and rugs, except wool) valued at \$160 million, shipments of secondary products (mainly wool carpets and rugs, and tufted bedspreads and bed sets) of \$9 million, and miscellaneous receipts of \$7 million.

Industry 2273 shipments of carpets and rugs, except wool in 1954 represented 95 percent of its total product shipments (primary and secondary). In 1947, this primary product specialization ratio was 84 percent.

Industry 2273 shipments of carpets and rugs, except wool in 1954 represented 83 percent of such products valued at \$192 million shipped by all industries. The comparable 1947 coverage ratio was 86 percent. Industry 2271, Wool Carpets and Rugs was the principal other industry shipping these products. The floor coverings produced in other industries consisted largely of tufted cotton and man-made fiber carpets and rugs (product class 22731). The growth of Industry 2273 since 1947 is largely accounted for by a more than ten-fold increase in the shipments of tufted carpets and rugs. Mills in the tufted products branch of the industry typically specialize in inserting tufting yarns into fabric backing, and do not manufacture either the yarns or fabric used. A large number of these mills also have their products dyed and finished by commission finishers. Such finishers are also included in this industry. The weaving mill branch of the industry includes some establishments with standard wool carpet equipment, producing cotton, man-made fiber or paper yarn carpets and rugs; others weave cotton throw rugs and bath mats on standard cotton looms. The remaining mills included in the industry employ miscellaneous rug-making processes such as knitting, braiding, and hooking. Nearly all of the mills are single-line in that they employ one process exclusively.

The growth of the tufted rug branch of the industry since 1947 has been accompanied by a marked change in the cotton vs man-made fiber production pattern. In 1947, practically no man-made fiber tufted rugs were produced, while in 1954 about 25 percent of the total production of tufted carpets and rugs was accounted for by rayon or nylon rugs and carpeting.

The Census Bureau conducts a semi-annual Facts For Industry survey of the tufted rug branch of the industry. Data obtained from tufting mills in the Census of Manufactures were compared with their Facts For Industry reports, the comparison resulting in a number of corrections in the latter data. The production figures shown in Table 6A should thus be regarded as final, superseding the data previously published in the Facts For Industry series.

**2274--Hard-Surface Floor Coverings** (Full Standard Industrial Classification Title: Linoleum, Asphalted-Felt-Base, and Other Hard-Surface Floor Coverings, N.E.C.)

Industry 2274, Hard-surface floor coverings, comprises establishments primarily engaged in manufacturing linoleum, cork carpet, asphalted-felt-base, and other hard-surface floor coverings, not elsewhere classified. Establishments primarily engaged in manufacturing supported plastic floor and wall covering are also included in this industry, but those primarily engaged in extruding plastic sheeting and tile (unsupported) are classified in Industry 3971, Fabricated plastic products, n.e.c. Establishments primarily engaged in manufacturing rubber floor covering are classified in Industry 3099, and asphalt floor tile in Industry 3292, Asbestos products. For a detailed list of products of Industry 2274, refer to Table 6A, product codes 2274111 to 2274331.

The value of shipments of Industry 2274 in 1954 totaled \$182 million. This included shipments of primary products (hard-surface floor and wall coverings) valued at \$155 million and shipments of secondary products of \$27 million.

Industry 2274 shipments of hard-surface floor and wall coverings in 1954 represented 85 percent of its total product shipments (primary and secondary). In 1947, this primary product specialization ratio was 91 percent. Industry 2274 shipments of hard-surface floor and wall coverings in 1954 represented 97 percent of such products valued at \$160 million shipped by all industries. The comparable 1947 coverage ratio was 100 percent i.e., none of these products was made by establishments classified in other industries in 1947.

The general statistics (employment, payrolls, value of shipments, cost of materials, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products, and, for that matter, their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (Tables 1-4) with product statistics (Table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in Table 5A which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry made as secondary products by establishments classified in other industries.

## CARPETS, RUGS AND OTHER FLOOR COVERINGS

22D-3

Table 1.—GENERAL STATISTICS FOR THE UNITED STATES: 1954 AND EARLIER YEARS

(For explanation of column captions see Introduction)

Industry and census year	Establishments, number	All employees		Production workers		Value added by manufacture <sup>2</sup>	Cost of materials, etc. <sup>3</sup>	Value of shipments <sup>4</sup>
		Number <sup>1</sup>	Payroll (\$1,000)	Number <sup>1</sup>	Wages (\$1,000)			
Wool carpets and rugs (S.I.C. 2271):								
1954.....	98	30,076	111,009	25,336	86,199	191,409	(°)	(°)
1953 <sup>5</sup> .....	(NA)	32,609	124,379	27,675	97,314	211,700		
1952 <sup>5</sup> .....	(NA)	32,921	117,699	28,081	92,511	184,436		
1951 <sup>5</sup> .....	(NA)	35,568	121,307	30,946	97,957	159,397		
1950 <sup>5</sup> .....	(NA)	41,957	144,394	37,254	117,968	287,286		
1949 <sup>5</sup> .....	(NA)	39,060	123,217	33,950	98,971	198,741		
1947.....	95	40,096	111,558	35,560	92,656	217,046		
1939.....	61	32,458	42,474	28,727	33,643	87,385		
1937.....	71	(NA)	(NA)	33,941	35,745	84,244		
1935 <sup>7</sup> .....	71	31,026	34,169	28,809	28,928	61,232		
1933 <sup>7</sup> .....	54	22,686	20,863	21,296	18,186	41,393		
1931.....	61	(NA)	(NA)	22,903	24,109	49,328		
1929.....	67	35,041	47,374	32,623	40,014	90,264		
1927.....	65	34,613	47,457	32,829	42,041	81,286		
1925.....	69	32,802	49,190	33,886	43,383	83,583		
1923.....	79	36,910	54,473	35,217	48,528	102,008		
1921.....	72	24,031	31,859	22,922	28,705	53,763		
1919.....	75	24,201	28,966	22,933	24,216	56,136		
1914.....	97	33,029	17,589	31,309	14,716	26,848		
1909 <sup>8</sup> .....	139	34,572	17,745	33,307	15,536	31,625		
1904.....	139	34,244	15,121	33,221	13,724	23,638		
1899.....	133	29,098	12,003	28,411	11,121	20,963		
Carpets and rugs, except wool (S.I.C. 2273):								
1954.....	213	11,479	30,735	10,178	23,085	67,110	107,900	175,010
1953 <sup>5</sup> .....	(NA)	10,438	26,702	9,290	20,802	58,173	89,897	148,070
1950 <sup>5</sup> .....	(NA)	15,283	40,029	12,333	25,020	88,337	83,098	171,435
1949 <sup>5</sup> .....	(NA)	8,290	18,466	7,393	14,651	32,583	34,404	66,987
1947.....	182	7,055	14,378	6,444	11,556	30,986	24,573	55,559
1939.....	84	3,608	3,039	3,137	2,116	5,391	4,367	9,758
1937 <sup>9</sup> .....	64	(NA)	(NA)	2,823	2,098	5,072	4,442	9,514
Hard-surface floor coverings (S.I.C. 2274):								
1954.....	16	9,638	43,596	8,242	35,918	102,337	79,248	181,582
1953 <sup>5</sup> .....	(NA)	10,374	43,938	9,064	37,701	95,529	91,717	187,246
1952 <sup>5</sup> .....	(NA)	10,834	45,463	9,616	39,290	90,342	100,332	189,461
1951 <sup>5</sup> .....	(NA)	11,272	43,872	9,980	37,751	78,877	102,142	179,806
1950 <sup>5</sup> .....	(NA)	11,761	42,715	10,530	36,866	99,308	98,142	196,237
1949 <sup>5</sup> .....	(NA)	11,327	40,617	10,227	35,329	80,591	94,037	173,695
1947.....	18	9,928	31,571	8,764	26,796	82,548	92,788	173,255
1939.....	17	8,301	13,505	7,028	10,406	41,506	28,369	69,875
1937.....	16	8,833	13,051	8,107	11,378	36,276	32,908	69,184
1935.....	16	6,895	9,350	6,410	8,105	28,456	23,942	52,398
1933.....	18	5,494	6,220	5,092	5,347	25,492	16,320	41,812
1931.....	21	(NA)	(NA)	4,841	6,329	25,960	17,017	42,977
1929.....	21	9,647	15,656	7,889	12,061	47,371	41,768	89,139
1927.....	19	8,980	14,443	7,806	11,871	41,141	40,402	81,543
1925.....	17	8,153	11,655	7,336	9,730	42,635	34,897	77,532
1923.....	16	9,331	13,787	7,943	10,579	41,390	36,417	77,807
1921.....	19	6,697	10,867	5,693	7,208	22,987	25,635	48,622
1919.....	21	6,251	8,298	5,414	6,518	22,304	30,369	52,673
1914.....	18	4,795	3,205	4,428	2,604	6,350	11,252	17,602
1909.....	19	4,462	2,750	4,225	2,309	5,668	10,145	15,813
1904.....	16	3,538	2,020	3,355	1,720	3,609	6,779	10,388
1899.....	18	2,823	1,521	2,718	1,327	2,954	4,853	7,807

NA Not available. <sup>1</sup>For the period 1949-1954, figures are based on employment for the payroll periods ended nearest the 15th of March, May, August and November. (However, in the case of Industry 2274 a different method was used for 1954: All employees represents the average of twelve monthly figures, and production workers was calculated by subtracting from the all employees total the average number of nonproduction employees for March, May, August and November). For 1947, they represent the average of 12 monthly figures. For earlier years, the production worker average was calculated as in 1947, but the figure for all employees represents the sum of the annual average number of production workers and the number of nonproduction workers reported for one payroll period (usually in October). <sup>2</sup>Value of products less cost of materials, supplies, fuel, electric energy and contract work. See Introduction, "Value Added by Manufacture." For Industry 2274, the 1947 value added by manufacture does not equal the published value of shipments less cost of materials, etc. because an estimated value of production was used in the calculation in place of value of shipments. Since the 1949-1952 estimates were derived from 1947 base totals, the same inequality may exist for these years. <sup>3</sup>Figures for years prior to 1935 do not include cost of contract work. <sup>4</sup>For 1929 and 1947-1954, value of shipments; for all other years, value of production. See Introduction, "Value of Shipments." <sup>5</sup>The figures for 1949-1953 represent estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period. Estimates with a standard error in excess of 15 percent generally have been omitted from this table. <sup>6</sup>Value of products shipped and cost of materials, etc. are omitted for this industry because each of these measures contains extensive duplication. The duplication arises because the products of some establishments are used as materials by other establishments classified in the same industry. (See text on industry and also Introduction, "Duplication in cost of materials and value of products.") <sup>7</sup>Data for carpet yarn are included in the figures for 1935-1954 and are excluded from the figures for 1899-1933. Value added for 1935, excluding data for carpet yarn and therefore on a basis comparable with earlier years was \$59,022,981. <sup>8</sup>The figures for 1899-1909 include data for jute carpets whereas the figures for later years do not include data for this product. <sup>9</sup>Separate data not available prior to 1937.



## MANUFACTURES—INDUSTRY STATISTICS

Table 2.—GENERAL STATISTICS BY REGIONS AND STATES: 1954 AND 1947  
(For explanation of column captions see Introduction)

Industry, region, and State <sup>1</sup>	1954										1947		
	Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
	Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
Wool Carpets and Rugs, (S.I.C. 2271), total.	98	70	30,076	111,009	25,336	48,852	86,199	191,409	(2)	(2)	12,605	40,096	217,046
New England.....	23	15	4,374	16,484	3,662	7,038	12,520	25,788			654	5,809	27,111
New Hampshire.....	4	3	137	402	115	231	296	572			(D)	(D)	(D)
Massachusetts.....	14	9	1,519	5,451	1,338	2,644	4,234	11,256			364	1,957	(D)
Middle Atlantic.....	53	44	20,468	77,131	17,242	33,141	59,710	136,279			6,514	30,579	168,773
New York.....	12	9	8,993	33,133	7,427	14,579	25,994	66,910			(D)	17,020	85,125
New Jersey.....	8	7	2,696	9,799	2,304	4,126	7,575	16,226			1,829	3,071	23,734
Pennsylvania.....	33	28	8,778	34,199	7,510	14,435	26,140	53,142	(D)	10,488	59,914		
Other Divisions.....	22	11	5,234	17,393	4,429	8,671	13,968	29,340		5,435	3,708	21,162	
Carpets and rugs, except wool (S.I.C. 2273), total.....	213	106	11,479	30,735	10,178	19,862	23,085	67,110	107,900	175,010	4,957	7,055	30,986
New England.....	28	11	624	1,489	589	1,037	1,208	2,724	2,495	5,220	31	514	(D)
Middle Atlantic.....	44	18	1,262	3,957	1,071	2,022	3,018	7,797	8,752	16,550	287	2,133	(D)
North Central.....	16	7	1,131	4,146	972	1,891	2,718	7,177	5,449	12,626	230	1,541	8,128
South.....	96	61	7,641	18,463	6,861	13,485	14,187	44,191	82,384	126,576	4,247	(D)	(D)
North Carolina.....	10	4	409	869	367	693	706	2,344	3,653	5,998	(D)	...	...
South Carolina.....	4	2	297	971	272	556	792	1,342	2,836	4,179	(D)	115	(D)
Georgia.....	62	45	5,798	13,797	5,195	10,164	10,717	35,243	66,654	101,898	3,004	1,114	3,123
Tennessee.....	9	5	597	1,763	527	1,063	1,069	3,140	5,240	8,381	344	377	(D)
Alabama.....	4	2	141	266	131	263	230	485	820	1,305	14	594	(D)
Pacific.....	29	9	820	2,680	683	1,426	1,952	5,218	8,818	14,037	161	(D)	(D)
Hard-surface floor coverings (S.I.C. 2274), total.....	16	16	9,638	43,596	8,242	17,382	35,918	102,337	79,248	181,582	6,352	9,928	82,548
New England.....	4	4	1,065	4,545	935	2,289	4,018	10,299	8,560	18,859	753	...	...
Middle Atlantic.....	8	8	7,481	34,016	6,351	13,318	28,016	79,566	61,332	140,895	4,793	(D)	(D)
North Central, South and West.....	4	4	1,091	5,034	955	1,774	3,883	12,471	9,355	21,826	805	1,421	11,926

Note: Detailed figures may not add to the totals because of independent rounding.

<sup>1</sup> D Withheld to avoid disclosing figures for individual companies.<sup>2</sup> General statistics for some producing States are not shown separately in the table (See INTRODUCTION "Confidentiality of Data for Individual Companies"). Such States are shown below with the number of establishments in each State for 1954 and, in parentheses, the number of employees or the employment-size range for that State for 1954:

S.I.C. 2271, Wool Carpets, Rugs, and Carpet Yarn: New England—Maine, 1 (1-19); Rhode Island, 1 (20-99); Connecticut, 3 (2,500-4,999); Other divisions—Illinois, 2 (1,000-2,499); Michigan, 2 (1-19); Wisconsin, 1 (20-99); Minnesota, 1 (20-99); Virginia, 2 (1,000-2,499); North Carolina, 3 (500-999); South Carolina, 1 (20-99); Georgia, 2 (20-99); Mississippi, 1 (500-999); Texas, 1 (1-19); Oregon, 1 (1-19); California, 5 (100-249). S.I.C. 2273, Carpets and Rugs, except Wool: New England—Maine, 2 (20-99); Massachusetts, 16 (250-499); Rhode Island, 10 (100-249); Middle Atlantic—New York, 8 (20-99); New Jersey, 5 (100-249); Pennsylvania, 31 (500-999); North Central—Ohio, 4 (20-99); Indiana, 2 (100-249); Illinois, 3 (20-99); Michigan, 3 (20-99); Wisconsin, 2 (500-999); Minnesota, 1 (100-249); Iowa, 1 (1-19); South—Maryland, 1 (20-99); Virginia, 1 (100-249); Florida, 1 (1-19); Kentucky, 1 (1-19); Arkansas, 1 (100-249); Texas, 2 (1-19); Pacific—Oregon, 1 (100-249); California, 28 (500-999).

S.I.C. 2274, Hard-Surface Floor Coverings: New England—Maine, 2 (250-499); Massachusetts, 1 (500-999); Connecticut, 1 (100-249); Middle Atlantic—New Jersey, 4 (2,203); Pennsylvania, 4 (5,278); North Central, South and West—Ohio, 2 (100-249); Delaware, 1 (250-499); California, 1 (500-999).

<sup>3</sup> Omitted because of duplication in cost of materials and value of products shipped (See introductory text).

## CARPETS, RUGS AND OTHER FLOOR COVERINGS

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Table 3.—DETAILED STATISTICS FOR THE UNITED STATES: 1954

(For explanation of line captions see Introduction)

Item	Wool carpets and rugs (S.I.C. 2271)	Carpets and rugs, except wool (S.I.C. 2273)	Hard-surface floor coverings (S.I.C. 2274)
Primary product specialization <sup>1</sup> .....	( <sup>3</sup> )	95	85
Coverage ratio <sup>2</sup> .....	( <sup>3</sup> )	83	97
Number of establishments, total.....	98	213	16
With 1-19 employees.....	28	107	...
With 20-99 employees.....	32	76	1
With 100 employees and over.....	38	30	15
All employees:			
Number (average for year).....	30,076	11,479	9,638
Payroll.....\$1,000..	111,009	30,735	43,596
Production workers:			
Number (average for year).....	25,336	10,178	8,242
Man-hours.....1,000..	48,852	19,862	17,382
Wages.....\$1,000..	86,199	23,085	35,918
Value added by manufacture.....do...	191,409	67,110	102,337
Cost of materials, etc.....do...	( <sup>4</sup> )	107,900	79,248
Value of shipments.....do...	( <sup>4</sup> )	175,010	181,582
Value added by resales.....do...	2,046	159	985
Cost of products bought and resold.....do...	22,931	1,234	4,736
Sales of products bought and resold.....do...	24,977	1,394	5,722
Total inventories, beginning of year.....do...	140,002	22,514	43,948
Total inventories, end of year.....do...	122,139	25,169	41,806
Capital expenditures, new.....do...	12,605	4,957	6,352
Total employment, by month:			
January.....	(NA)	(NA)	9,756
February.....	(NA)	(NA)	9,757
March.....	31,871	11,508	9,539
April.....	(NA)	(NA)	9,846
May.....	30,055	10,770	8,557
June.....	(NA)	(NA)	8,969
July.....	(NA)	(NA)	9,875
August.....	29,127	11,121	9,816
September.....	(NA)	(NA)	9,985
October.....	(NA)	(NA)	9,830
November.....	29,251	12,519	9,848
December.....	(NA)	(NA)	9,880
Cost of materials, fuel, electricity and contract work, total.....\$1,000..	( <sup>4</sup> )	107,900	79,248
Materials, parts, containers, and supplies consumed.....do...	( <sup>4</sup> )	101,711	75,491
Fuels consumed, total.....do...	2,745	996	2,261
Bituminous coal and anthracite:			
Quantity.....1,000 short tons..	215	36	126
Value.....\$1,000..	1,855	349	1,066
Coke:			
Quantity.....1,000 short tons..	...	( <sup>5</sup> )	( <sup>5</sup> )
Value.....\$1,000..	...	10	( <sup>6</sup> )
Fuel oil:			
Quantity.....1,000 barrels..	283	128	303
Value.....\$1,000..	741	408	731
Gas:			
Quantity.....million cubic feet..	398	1,087	471
Value.....\$1,000..	149	229	461
Electric energy:			
Purchased:			
Quantity.....million kwh..	125	58	121
Cost.....\$1,000..	1,692	770	1,405
Generated.....million kwh..	67	1	22
Sold:			
Quantity.....do...	( <sup>7</sup> )	...	...
Value.....\$1,000..	( <sup>6</sup> )	...	...
Cost of contract work.....do...	4,565	4,423	91
Manufacturers' inventories:			
Beginning of year, total.....do...	140,002	22,514	43,948
Finished products.....do...	55,406	9,769	25,596
Work-in-process.....do...	37,672	3,707	7,539
Materials, supplies, fuel, etc.....do...	46,923	9,037	10,813
End of year, total.....do...	122,139	25,169	41,806
Finished products.....do...	45,900	9,420	25,160
Work-in-process.....do...	34,682	4,975	7,918
Materials, supplies, fuel, etc.....do...	41,556	10,773	8,728
Expenditures for plant and equipment, total.....do...	12,801	5,150	6,362
Capital expenditures, new.....do...	12,605	4,957	6,352
New structures and additions to plant.....do...	3,110	1,450	1,072
New machinery and equipment.....do...	9,495	3,506	5,280
Expenditures for used plant and equipment.....do...	( <sup>8</sup> )	( <sup>8</sup> )	( <sup>8</sup> )
Horsepower rating of power equipment at end of 1954:			
Horsepower rating of prime movers and electric motors driven by purchased energy, total.....1,000 hp..	134	28	93
Engines, etc., driving electric generators.....do...	45	1	12
Engines, etc., not driving electric generators.....do...	4	3	1
Electric motors driven by purchased energy.....do...	85	24	80
Electric motors driven by energy generated at the establishment.....do...	36	( <sup>2</sup> )	17

Note: Detailed figures may not add to the totals because of independent rounding. NA Not available. xxx Not applicable. <sup>1</sup>The specialization ratio compares the given industry's shipments of its primary products to its total shipments of all products. (The primary products are listed in Tables 5B and 6A; the first 4-digits of the product code represent the industry code to which the product is primary.) <sup>2</sup>The coverage ratio measures the extent to which the total shipments of products primary to the given industry are shipped by establishments classified in that industry. <sup>3</sup>Percentages not meaningful because value of shipments includes a significant amount of duplication. The specialization ratio is quite high, (over 90%) since the value of secondary products shipped by the industry was low compared to the value of its primary products, wool carpets and rugs and carpet yarn. The coverage ratio is over 95 percent since nearly all wool carpets, rugs, and carpet yarns are produced in Industry 2271. <sup>4</sup>Omitted because of duplication in value of shipments and cost of materials (see introductory text). <sup>5</sup>Less than 500 tons. <sup>6</sup>Less than \$5,000. <sup>7</sup>Less than 500 thousand kwh. <sup>8</sup>Less than \$500 thousand. <sup>9</sup>Less than 500 hp.

## MANUFACTURES--INDUSTRY STATISTICS

Table 4.--SELECTED STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR THE UNITED STATES: 1954

(Value figures in thousands of dollars. For explanation of line captions see Introduction. Data which cannot be shown without disclosing information for individual companies have been combined with figures for other size classes. A (D) appears in the column where the figure has been omitted and the combined figure is underlined and shown in the size-class to the left)

Ind. code	Industry and item	Total, all establishments	Establishments with an average of--									
			1-4 employees	5-9 employees	10-19 employees	20-49 employees	50-99 employees	100-249 employees	250-499 employees	500-999 employees	1,000-2,499 employees	2,500 employees and over
2271	Wool carpets, and rugs:											
	Number of establishments...	98	10	6	12	20	12	13	9	6	8	2
	Number of employees.....	30,076	21	44	193	700	932	1,908	3,269	3,708	19,300	(D)
	Value added by manufacture	191,409	93	204	905	3,605	4,002	11,298	21,893	23,903	<u>125,506</u>	(D)
2273	Carpets & rugs, except wool:											
	Number of establishments...	213	55	20	32	49	27	27	1	1	1	...
	Number of employees.....	11,479	128	147	463	1,635	2,003	4,496	<u>2,603</u>	(D)	(D)	...
	Value added by manufacture	67,110	443	693	2,317	7,885	9,503	31,081	<u>15,185</u>	(D)	(D)	...
2274	Hard-surface floor covering:											
	Number of establishments...	16	...	...	...	1	...	7	2	5	...	1
	Number of employees.....	9,638	...	...	...	<u>1,749</u>	...	(D)	(D)	<u>7,887</u>	...	(D)
	Value added by manufacture	102,337	...	...	...	<u>20,874</u>	...	(D)	(D)	<u>81,462</u>	...	(D)

Note: Detailed figures may not add to the totals, because of independent rounding.

Table 5A.--INDUSTRY-PRODUCT ANALYSIS--SUMMARY OF INDUSTRY AND PRIMARY PRODUCT SHIPMENTS, SPECIALIZATION RATIOS AND COVERAGE RATIOS FOR THE UNITED STATES: 1954 AND 1947

Industry code	Industry and census year	Value of shipments					Value of primary products shipped			
		Total	Primary products	Secondary products	Miscellaneous receipts	Primary product specialization ratio <sup>1</sup>	Total (made in all industries)	Made in this industry	Made in other industries	Coverage ratio <sup>2</sup>
		(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	Col. B Col. B+C (Percent)	(\$1,000)	(\$1,000)	(\$1,000)	Col. G Col. F (Percent)
		(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)
2271	Wool carpets and rugs.....1954..	( <sup>3</sup> )	( <sup>3</sup> )	35,165	4,425	( <sup>4</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>4</sup> )
	1947..	( <sup>3</sup> )	( <sup>3</sup> )	11,874	7,154	( <sup>4</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>4</sup> )
2273	Carpets and rugs, except wool.....1954..	175,010	159,502	8,572	6,936	95	192,019	159,502	32,517	83
	1947..	55,559	45,649	8,770	1,140	84	52,801	45,649	7,152	86
2274	Hard-surface floor coverings.....1954..	181,582	154,738	26,760	84	85	159,679	154,738	4,941	97
	1947..	173,255	153,877	15,973	3,405	91	<sup>2</sup> 153,877	153,877	...	100

<sup>1</sup>The specialization ratio compares the given industry's shipments of its primary products to its total shipments of all products. (The primary products are listed in Tables 5B and 6A; the first 4-digits of the product code represent the industry code to which the product is primary.) <sup>2</sup>The coverage ratio measures the extent to which the total shipments of products primary to the given industry are shipped by establishments classified in that industry. <sup>3</sup>Omitted because of duplication in value of shipments (see introductory text). <sup>4</sup>Percentages not meaningful because value of shipments includes a significant amount of duplication. The specialization ratio is quite high (over 90), since the value of secondary products shipped by the industry was low compared to the value or its primary products, wool carpets and rugs and carpet yarn. The coverage ratio is over 95 percent since nearly all wool carpets, rugs, and carpet yarns are produced in Industry 2271.



## CARPETS, RUGS AND OTHER FLOOR COVERINGS

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Table 5B.--INDUSTRY-PRODUCT ANALYSIS--SHIPMENTS BY PRODUCT CLASS AND INDUSTRY, FOR THE UNITED STATES: 1954

(In thousands of dollars. Each column shows for the industry listed in the column heading, the value of shipments divided between carpets, carpet yarn and hard-surface floor covering, other products, and miscellaneous receipts. Each figure represents the amount of the product class shown at the left shipped by the industry listed at the top of the column. The first four digits of the product class codes at the left represent the codes of the industries to which they are primary. All other product classes in a column represent products secondary to the specified industry)

Prod. class code	Class of products and miscellaneous receipts	Wool carpets and rugs (S.I.C. 2271)	Carpets and rugs except wool (S.I.C. 2273)	Hard-surface floor coverings (S.I.C. 2274)	Other industries	All industries
	Total shipments and receipts of the industry.....	( <sup>1</sup> )	175,010	181,582	xxx	xxx
227	Carpets, carpet yarn and hard-surface floor coverings.....	( <sup>1</sup> )	161,739	154,738	14,284	( <sup>1</sup> )
22711	Wool carpets and rugs.....	337,774	2,108	...	2,440	342,322
22712	Carpet and rug weaving yarns, wool systems.....	76,544	129	...	1,237	77,910
22731	Tufted carpets and rugs, except wool.....	15,075	127,882	...	4,468	147,425
22732	Woven carpets and rugs, except wool.....	(D)	9,977	...	(D)	16,238
22733	Other carpets and rugs, except wool.....	(D)	21,643	...	(D)	28,356
22741	} Linoleum and supported plastic floor and wall covering.....	...	...	84,618	4,941	89,559
22743		...	...	70,120	...	70,120
22742	Asphalted-felt-base floor and wall covering.....	...	...	...	...	...
	Other products.....	8,314	6,335	26,760	xxx	xxx
22120	Yarns spun on woolen systems, except carpet.....	(D)	...	...	xxx	xxx
23921	Bedspreads and bed sets.....	(D)	3,424	...	xxx	xxx
	Other secondary products.....	(D)	2,911	<sup>2</sup> 26,760	xxx	xxx
	Miscellaneous receipts.....	4,425	6,936	84	xxx	xxx
	Contract and commission work:					
	Spinning woolen and worsted yarns.....	1,468	...	...	xxx	xxx
	Other <sup>3</sup> .....	2,336	5,376	...	xxx	xxx
	Other receipts.....	621	1,560	( <sup>4</sup> )	xxx	xxx

xxx Not applicable.

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>Omitted because of duplication in value of shipments (see Introductory text).<sup>2</sup>Of this figure, 84 percent consists of the following product classes: 28941, Glues and adhesives; 29521, Asphalt and tar roofing, siding, and felts; 32923, Asphalt floor tile; and 39820, Cork products, except floor and wall covering.<sup>3</sup>For Industry 2271, includes contract and commission receipts, not specified by kind.<sup>4</sup>Less than \$100 thousand.

## MANUFACTURES--INDUSTRY STATISTICS

Table 6A.--QUANTITY AND VALUE OF PRODUCTS SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, FOR THE UNITED STATES: 1954 AND 1947

Product code	Product	Unit of quantity	1954			1947		
			Production for all purposes (quantity)	Total shipments including interplant transfers		Production for all purposes (quantity)	Total shipments including interplant transfers	
				Quantity	Value (\$1,000)		Quantity	Value (\$1,000)
22711	Wool carpets and rugs.....	Thousand sq. yds..	65,325	64,512	342,322	91,160	88,872	363,070
	All wool:							
2271111	Axminster.....	...do.....	11,706	11,600	61,757	138,344	137,550	1136,971
2271113	Wilton.....	...do.....	13,692	13,048	97,495	114,340	114,258	195,285
2271115	Plain velvet.....	...do.....	14,151	13,948	86,583	117,182	116,713	176,386
2271117	Printed velvet, chenille and other woven types.	...do.....	3,034	2,953	10,865	17,921	17,166	132,333
	Wool mixtures, chiefly wool:							
2271121	Axminster.....	...do.....	9,617	9,654	35,626	(1)	(1)	(1)
2271123	Wilton.....	...do.....	1,893	1,931	11,234			
2271125	Plain velvet.....	...do.....	3,898	3,903	16,789			
2271127	Printed velvet, chenille and other woven types.	...do.....	2,052	2,267	29,525			
2271129	Woven pile, containing less than 50 percent wool, chiefly synthetic fibers.....	...do.....	1,945	1,689	4,818	(NA)	(NA)	(NA)
2271131	Not woven, wool face on felt backing.....	...do.....	633	697	1,350	(3)	(3)	(3)
2271151	Automobile and aircraft floor covering, wool.....	...do.....	2,704	2,822	6,280	48,545	48,605	415,170
2271198	Other wool carpets and rugs.....	...do.....	(2)	(2)	(2)	34,828	34,580	36,925
22712	Carpet and rug weaving yarns, wool systems.....	Thousand pounds...	137,302	56,037	77,910	178,694	59,873	51,009
2271211	Spun on woolen system.....	...do.....	137,302	56,037	77,910	169,923	57,260	48,383
2271231	Spun on worsted system.....	...do.....				8,771	2,613	2,626
2273---	Carpets and rugs, except wool, total.....	Thousand sq. yds..	77,274	74,506	192,019	(NA)	(NA)	52,801
22731	Tufted carpets and rugs.....	...do.....	56,544	54,411	147,425	(NA)	(NA)	11,351
2273111	Cotton (including mixtures, chiefly cotton)...	...do.....	42,727	40,978	93,021	(NA)	(NA)	11,351
2273151	Man-made fibers (including mixtures, chiefly man-made fibers, containing no wool).....	...do.....	13,817	13,433	54,404	(NA)	...	...
22732	Woven carpets and rugs, non-wool except automobile and aircraft floor coverings.....	...do.....	5,477	5,517	16,238	(NA)	(NA)	41,450
2273211	Cotton (including mixtures, chiefly cotton)...	...do.....	3,761	3,834	11,424			
2273251	Man-made fibers (including mixtures, chiefly man-made fibers, containing no wool).....	...do.....	1,716	1,683	4,814			
22733	All other non-wool carpets and rugs.....	...do.....	15,253	14,578	28,356			
2273311	Carpets and rugs (including braided and hooked) made from rag, jute, flax, straw coir, paper, etc.....	...do.....	11,567	10,995	18,251	(4)	(4)	(4)
2273351	Woven automobile and aircraft floor coverings made from fibers other than wool...	...do.....	3,686	3,583	10,105			
2274---	Hard surfaced floor coverings, (except asphalt and rubber tile), total.....	...do.....	245,213	243,867	159,679	301,836	298,701	153,877
22741	Linoleum and cork carpet.....	...do.....	569,514	566,502	589,559	65,808	63,248	67,646
	Linoleum floor and wall covering:							
	Sheet goods:							
2274111	1/8" overall thickness and thicker.....	...do.....	644,754	642,764	657,332	754,962	753,864	761,152
2274113	.050 wearing surface, up to 1/8" overall thickness.....	...do.....						
2274115	Less than .050 wearing surface.....	...do.....						
	Tile:							
2274121	1/8" overall thickness and thicker (backed and unbacked).....	...do.....	1013,764	1013,375	1020,002	(7)	(7)	(7)
2274123	.050 wearing surface up to 1/8" overall thickness.....	...do.....						
2274125	Less than .050 wearing surface.....	...do.....						
	Cork floor and wall covering:							
2274151	Sheet goods.....	...do.....	1,838	1,761	4,853	512	365	438
2274155	Tile (except insulation).....	...do.....						

See footnotes at end of table.

**CARPETS, RUGS AND OTHER FLOOR COVERINGS**

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Table 6A.--QUANTITY AND VALUE OF PRODUCTS SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, FOR THE UNITED STATES: 1954 AND 1947--Continued

Product code	Product	Unit of quantity	1954			1947		
			Production for all purposes (quantity)	Total shipments including interplant transfers		Production for all purposes (quantity)	Total shipments including interplant transfers	
				Quantity	Value (\$1,000)		Quantity	Value (\$1,000)
2274----	Hard surfaced floor coverings (except asphalt and rubber tile)--Continued							
22742	Asphalted felt-base floor and wall covering.....	Thousand sq. yds..	175,699	177,365	70,120	236,028	235,453	86,231
	Floor covering:							
	Enamel coated or printed:							
	Border rugs:							
2274211	Larger than 9x15.....	....do.....	65,852	69,648	24,756	98,349	99,052	34,639
2274213	9x15 and smaller.....	....do.....						
	Sheet goods:							
2274221	16/4 yard and wider.....	....do.....	60,007	55,439	23,277	47,187	47,374	18,021
2274223	12/4 yard.....	....do.....						
2274225	8/4 and narrower.....	....do.....	29,384	31,182	10,602	1190,492	1189,027	1133,571
	Plastic coated or plastic printed:							
2274231	Border rugs (all sizes).....	....do.....	127,495	127,665	124,500	(NA)	(NA)	(NA)
	Sheet goods:							
2274241	16/4 yard and wider.....	....do.....						
2274243	12/4 yard.....	....do.....						
2274245	8/4 yard and narrower.....	....do.....						
2274251	Wall covering.....	....do.....	12,961	13,431	6,985	(11)	(11)	(11)
2274261	Other asphalted-felt-base floor and wall coverings	....do.....	(12)	(12)	(12)	(NA)	(NA)	(NA)
22743	Supported plastic floor and wall covering.....	....do.....	(5)	(5)	(5)	(NA)	(NA)	(NA)
	Floor covering:							
2274311	Sheet goods.....	....do.....	(6)	(6)	(6)	(NA)	(NA)	(NA)
2274315	Tile.....	....do.....	(10)	(10)	(10)			
2274331	Wall covering (resilient, hard surface, sheet goods).....	....do.....	(8)	(8)	(8)			

NA Not available. <sup>1</sup>1947 figures for wool mixtures are included with the corresponding figures for all wool. <sup>2</sup>Code 2271198 has been combined with code 2271127. <sup>3</sup>Code 2271131 has been combined with code 2271198. <sup>4</sup>1947 figures for wool automobile and aircraft floor covering includes such floor covering made from fibers other than wool. <sup>5</sup>Code 22743 has been combined with code 22741. <sup>6</sup>Code 2274311 has been combined with codes 2274111 and 2274113. <sup>7</sup>Codes 2274121 and 2274123 have been combined with codes 2274111 and 2274113. <sup>8</sup>Code 2274331 has been combined with code 2274115. <sup>9</sup>Code 2274125 has been combined with code 2274115. <sup>10</sup>Code 2274315 has been combined with codes 2274121 and 2274123. <sup>11</sup>Code 2274251 has been combined with code 2274225. <sup>12</sup>Code 2274261 has been combined with codes 2274231, 2274241, 2274243, and 2274245.

Table 6B.--VALUE OF PRODUCT CLASSES SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, BY DIVISIONS AND STATES FOR 1954, AND UNITED STATES TOTALS FOR EARLIER YEARS

(In thousands of dollars. Statistics are shown for selected product classes which are economically significant and production of which is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (Table 2) and they are not miscellaneous or "not specified by type" classes. For each product class, States are listed only if the value of shipments is more than \$1 million and the figure does not disclose individual company information. Additional States which had shipments of more than \$1 million of the individual product classes are listed in footnote 1)

Product class, region, and State <sup>1</sup>	Value of shipments	Product class, region, and State <sup>1</sup>	Value of shipments	Product class, region, and State <sup>1</sup>	Value of shipments
<b>Wool carpets and rugs (22711)</b>		<b>Wool carpets and rugs (22711)--</b>		<b>Tufted carpets and rugs, except wool (22731)</b>	
1954 United States, total.....	342,322	Continued		1954 United States, total.....	147,425
1953 United States, total.....	406,470			1947 United States, total.....	11,351
1952 United States, total.....	377,761	South.....	53,581	1954	
1951 United States, total.....	426,803			Middle Atlantic.....	22,743
1950 United States, total.....	550,719	<b>Carpet and rug weaving yarns,</b>		New Jersey.....	21,089
1947 United States, total.....	2363,070	<b>wool (22712)</b>		South Atlantic.....	100,244
1954		1954 United States, total.....	77,910	Georgia.....	94,757
New England.....	45,861	1953 United States, total.....	95,024	East South Central.....	8,848
Middle Atlantic.....	228,499	1952 United States, total.....	100,449	Tennessee.....	7,432
New York.....	114,531	1951 United States, total.....	107,151	Pacific.....	8,758
New Jersey.....	33,897	1950 United States, total.....	107,493		
Pennsylvania.....	80,071	1947 United States, total.....	51,009		
		1954			
		Middle Atlantic.....	51,868		

NOTE: The figures shown for 1949 to 1953 are sample estimates obtained from the Annual Survey of Manufactures for those years. Since the estimates are based on a sample they are subject to sampling variability, that is, they are not the same as figures which would have been obtained if complete censuses had been taken for those years. Measures of the sampling variability (standard errors) of the estimated total value of shipments of each product class are shown in the Annual Survey of Manufactures publications. Also shown are the standard errors of the relative change in shipments between some consecutive Annual Survey years which are the more significant measures when the series is studied for trend.

<sup>1</sup>For the specified product classes, shipments of over \$1 million were reported for the States listed but the exact figures are withheld to avoid disclosure of individual company figures: 22711, Maine, Massachusetts, Connecticut, Illinois, Virginia, North Carolina, Georgia, Mississippi, and California; 22712, Massachusetts, Rhode Island, New York, New Jersey, Pennsylvania, Virginia, and Georgia; 22731, Indiana, North Carolina, Alabama, Arkansas, and California.

<sup>2</sup>Includes value of automobile and aircraft floor coverings other than wool.



## MANUFACTURES—INDUSTRY STATISTICS

Table 7.—MATERIALS CONSUMED, BY KIND: 1954

Code	Consuming industry and description of materials	Quantity (1,000 lbs.)	Delivered cost (\$1,000)
INDUSTRY 2271—WOOL CARPETS AND RUGS			
	Materials, containers, and supplies, total.....	xxx	( <sup>1</sup> )
221111	Carpet wool (scoured weight).....	<sup>2</sup> 122,406	96,020
222141	Wool yarns.....	39,039	57,139
222111	Cotton yarns <sup>3</sup> .....	31,033	16,066
222151	Man-made fiber yarns <sup>3</sup> .....	16,467	14,334
229711	Jute yarns.....	64,412	17,484
269911	Paper yarns.....	19,321	4,015
970000	All other materials, containers, and supplies consumed, including materials, etc., not specified by kind....	xxx	48,439
INDUSTRY 2273—CARPETS AND RUGS, EXCEPT WOOL			
	Materials, containers, and supplies, total.....	xxx	101,711
221111	Carpet wool (scoured weight).....	337	279
222141	Wool yarns.....	365	474
222111	Cotton yarns <sup>3</sup> .....	64,035	34,202
222151	Man-made fiber yarns <sup>3</sup> .....	21,766	15,334
269911	Paper yarns.....	17,400	2,854
970000	All other materials, containers, and supplies consumed, including materials, etc., not specified by kind....	xxx	48,568
INDUSTRY 2274—HARD-SURFACE FLOOR COVERINGS			
	Materials, containers, and supplies, total.....	xxx	75,491
288211	Linseed oil, crude.....	57,739	8,549
261171	Tall oil.....	33,888	1,288
261351	Paper felts.....	216,386	9,481
280051	Pigment.....	43,998	8,975
282321	Vinyl resins.....	9,948	2,975
970000	Other materials, containers, and supplies.....	xxx	44,223

xxx Not applicable. <sup>1</sup>Omitted because of extensive duplication in cost of materials and value of shipments (see introductory text). <sup>2</sup>Includes some wool consumed in the manufacture of yarns other than carpets. <sup>3</sup>Represents yarns purchased from other plants and does not include raw cotton or man-made fiber staple consumed by the reporting establishments.

Table 8.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY INDUSTRY SPECIALIZATION AND PRIMARY PRODUCT CLASS SPECIALIZATION, FOR THE UNITED STATES: 1954

(This table presents selected statistics for establishments classified according to their degree of specialization in products primary to the industry. The establishments are classified in two ways: (1) by industry specialization—the degree of specialization in all primary products of the industry; and (2) by product-class specialization—the degree of specialization in the largest product class of the establishment. The degree of "industry specialization" for an establishment represents the ratio of its primary product shipments to its total product shipments, primary and secondary. The degree of "product-class specialization" for an establishment represents the ratio of its largest product class shipments to its total product shipments, primary and secondary. Data are not shown for some industries, product classes, and specialization ranges for a variety of reasons, consequently, detailed figures frequently do not add to the totals. See Introduction for detailed explanation)

Ind. or product class No.	Industry or product class by percent of specialization	Establishments, number	All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
2271	WOOL CARPETS AND RUGS (entire industry).....	98	30,076	111,009	25,336	48,852	86,199	191,409	( <sup>1</sup> )	( <sup>1</sup> )
	Establishments with: 90% or more specialization.....	73	25,578	94,778	21,633	41,840	74,101	166,965	( <sup>1</sup> )	( <sup>1</sup> )
22711	Wool carpets and rugs: All establishments specializing in product class. Establishments with: 90% or more specialization.....	61	25,684	96,314	21,448	41,673	74,137	173,941	210,537	384,478
		50	20,552	77,495	17,061	32,963	59,321	138,284	135,715	273,998
2273	CARPETS AND RUGS, EXCEPT WOOL (entire industry).....	213	11,479	30,735	10,178	19,862	23,085	67,110	107,900	175,010
	Establishments with: 90% or more specialization.....	177	8,361	21,853	7,516	14,786	16,865	48,408	85,116	133,525
	75-89% specialization.....	6	1,462	4,789	1,211	2,392	3,223	10,947	14,610	25,557
	50-74% specialization.....	10	915	1,999	814	1,314	1,482	3,966	6,150	10,117
	All other <sup>1</sup> .....	20	741	2,094	636	1,369	1,513	3,788	2,022	5,810
22731	Tufted carpets and rugs, except wool: All establishments specializing in product class. Establishments with: 90% or more specialization.....	72	7,127	17,893	6,358	12,450	13,577	44,711	86,521	131,233
		63	5,623	14,311	5,082	10,187	11,153	35,748	71,913	107,661
	75-89% specialization.....	4	942	2,632	754	1,496	1,703	7,101	11,863	18,965
	50-74% specialization.....	5	562	949	521	765	720	1,862	2,745	4,607
22733	Other carpets and rugs, except wool: All establishments specializing in product class. Establishments with: 90% or more specialization.....	73	2,441	7,301	2,141	4,077	5,413	12,267	10,478	22,746
		66	1,502	3,835	1,347	2,540	3,048	6,242	5,610	11,852

<sup>1</sup>Omitted because of duplication in value of shipments and cost of materials (see Introductory text).

<sup>2</sup>This class includes data for establishments with less than 50 percent specialization in the primary products of the industry and establishments engaged exclusively in contract work defined in the industry. Miscellaneous small statistical adjustments are also included.

**CARPETS, RUGS AND OTHER FLOOR COVERINGS**

22D-11

**Table 9A.--VALUE OF SHIPMENTS OF SELECTED PRODUCTS, BY CLASS OF CUSTOMER: 1954**

Item	Shipments including interplant transfers													
	Woven rugs and carpeting						Tufted rugs and carpeting				Linoleum, Codes 2274111- 2274125		Asphalted-felt- base floor and wall covering Codes 2274211- 2274261	
	Wool, Codes 2271111- 2271127, 2271131, and 2271198		Cotton, Code 2273211		Man-made fibers, Codes 2271129 and 2273251		Cotton, Code 2273111		Man-made fiber, Code 2273151					
	Value (\$1,000)	Per- cent of total	Value (\$1,000)	Per- cent of total	Value (\$1,000)	Per- cent of total	Value (\$1,000)	Per- cent of total	Value (\$1,000)	Per- cent of total	Value (\$1,000)	Per- cent of total	Value (\$1,000)	Per- cent of total
Shipments by all manufacturing establishments.....	331,224	xxx	11,424	xxx	9,632	xxx	93,021	xxx	54,404	xxx	(D)	xxx	70,120	xxx
Shipments by establishments reporting class of customer data, total.....	316,453	100	10,481	100	9,490	100	75,279	100	49,064	100	(D)	100	70,120	100
Transfers to other manufacturing plants of the company.....	(D)	(D)	...	...	...	...	(D)	(D)	(D)	(D)	...	...	...	...
Shipments to wholesalers and distributors.....	138,857	44	7,634	73	6,064	64	21,456	29	22,737	46	(D)	90	63,722	91
Shipments to retailers.....	163,102	52	2,829	27	3,411	36	51,795	69	26,040	53	(D)	1	(D)	(D)
Shipments to industrial, commercial, and institutional users.	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	...	...	(D)	(D)	(D)	(D)
Shipments to the Federal government.....	(D)	(D)	...	...	...	...	(D)	(D)	...	...	(D)	(D)	...	...
Shipments to State and local governments.....	...	...	...	...	...	...	...	...	...	...	...	...	(D)	(D)
Sales to household consumers.....	(D)	(D)	...	...	(D)	(D)	...	...	...	...	...	...	(D)	(D)
Export transactions.....	(D)	(D)	...	...	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3,698	

xxx Not applicable.

D Withheld to avoid disclosing figures for individual companies.

**Table 9B.--CARPET AND RUG-WEAVING LOOMS AND SPINNING SPINDLES IN POSSESSION: DECEMBER 31, 1954**

Represents looms and spindles reported by establishments classified in Industry 2271. Wool Carpets, Rugs, and Carpet Yarns, and Industry 2273, Carpets and Rugs, N.E.C.

Type of machinery and size of loom	Looms by type					Spinning spindles by system		
	All types	Axminster	Jacquard	Velvet	Other types	All systems	Woolen and worsted systems	Other systems
Number of looms or spindles in possession, total.....	5,411	1,862	1,652	1,211	686	168,053	152,053	16,000
3/4 yard looms.....	1,928	666	761	435	66	...	...	...
4/4 yard looms.....	646	128	245	148	125	...	...	...
6/4 yard looms.....	97	17	17	26	37	...	...	...
8/4, 10/4, and 11/4 yard looms.....	240	55	24	30	131	...	...	...
12/4 yard looms.....	1,238	626	213	275	124	...	...	...
14/4 and 16/4 yard looms.....	887	338	256	200	93	...	...	...
20/4 yard looms.....	266	32	129	82	39	...	...	...
24/4 and larger looms.....	32							
Looms not specified by size.....	77	...	...	6	71	...	...	...





## Hats (Except Cloth and Millinery)

This report shows 1954 Census of Manufactures statistics for establishments classified in one of the following industries.

<u>Code</u>	<u>Title</u>
2281--	Fur-felt Hats And Hat Bodies
2282--	Wool-felt Hats And Hat Bodies
2283--	Straw Hats
2284--	Hatters' Fur

Establishments primarily engaged in the manufacture of millinery made from purchased hat bodies are classified in Industry 2351, Millinery, and establishments making cloth hats and caps are classified in Industry 2325, Men's and Boys' Cloth Hats. These two industries are not included in this report. Industries 2281-2284, described below, include plants which make finished hats from hat bodies made in the same establishment, as well as finished hats made from purchased hat bodies. In addition, establishments which make hat bodies for sale as such are also included in these industries. Therefore, the figures on total value of shipments for these industries contain some duplication since they include data from both the producers of the semi-finished product (hat bodies) and the manufacturing establishments which use these purchased hat bodies in making finished hats. From the data shown in Table 6, it is estimated that in 1954 this duplication amounted to about 12 percent for Industry 2281, and no more than 10 percent for Industry 2282. Duplication in Industry 2283 cannot be exactly determined from Table 6 since some straw hats were made from imported hat bodies.

It should be noted that the establishments classified in the hat industries account for most of the output of the products primary to Industry Group 228. Similarly, hat plants largely make only the products primary to these industries and do not produce any significant quantities of products primary to other industry groups. There is, however, as indicated by Table 5B, some overlap in the production within the industry group in that

some establishments will produce both felt and straw hats; the value of the secondary products for the most part represents products primary to the hat industries.

### 2281--Fur-Felt Hats and Hat Bodies

This industry comprises establishments primarily engaged in manufacturing fur-felt hat bodies from hatters' fur, in manufacturing finished fur-felt hats from hat bodies produced in the same establishment, and in manufacturing men's and boys' finished fur-felt hats from purchased hat bodies. For a detailed list of primary products of Industry 2281, refer to Table 6, product codes 2281011 to 2281055.

### 2282--Wool-Felt Hats and Hat Bodies

This industry comprises establishments primarily engaged in manufacturing wool-felt hat bodies from raw wool and wool waste, in manufacturing wool-felt hats from hat bodies produced in the same establishment, and in manufacturing men's and boys' finished wool-felt hats from purchased hat bodies. For a detailed list of primary products of Industry 2282, refer to Table 6, product codes 2282011 to 2282055.

### 2283--Straw Hats

This industry comprises establishments primarily engaged in manufacturing straw hat bodies, in manufacturing straw hats from hat bodies produced in the same establishment, and in manufacturing men's and boys' finished straw hats from purchased hat bodies. For a detailed list of primary products of Industry 2283, refer to Table 6, product codes 2283011 to 2283051.

### 2284--Hatters' Fur

This industry comprises establishments primarily engaged in producing hatters' fur for use as material in manufacturing fur-felt bodies.

The general statistics (employment, payrolls, value of shipments, cost of materials, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products, and, for that matter, their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (Tables 1-4) with product statistics (Table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in Table 5A which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry made as secondary products by establishments classified in other industries.

## MANUFACTURES--INDUSTRY STATISTICS

Table 1.—GENERAL STATISTICS FOR THE UNITED STATES: 1954 AND EARLIER YEARS

(For explanation of column captions see Introduction)

Industry and census year	Establishments, number	All employees		Production workers		Value added by manufacture <sup>2</sup> (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments <sup>3</sup> (\$1,000)
		Number <sup>1</sup>	Payroll (\$1,000)	Number <sup>1</sup>	Wages (\$1,000)			
Fur-felt hats and hat bodies (S.I.C. 2281):								
1954 <sup>4</sup> .....	91	8,180	27,258	7,028	21,317	39,160	31,445	70,605
1953 <sup>5</sup> .....	(NA)	10,190	36,262	9,127	27,964	49,928	41,245	91,173
1952 <sup>5</sup> .....	(NA)	12,553	41,909	10,691	31,535	61,927	65,120	127,047
1951 <sup>5</sup> .....	(NA)	12,254	36,563	10,443	27,393	56,049	62,683	118,732
1950 <sup>5</sup> .....	(NA)	12,672	37,646	10,912	30,703	56,252	68,436	124,688
1949 <sup>5</sup> .....	(NA)	11,894	34,504	10,165	26,578	51,902	46,221	98,123
1947.....	136	13,034	36,433	11,495	28,554	61,474	69,649	131,123
1939.....	158	16,418	20,747	14,515	16,104	31,391	32,188	63,579
1937 <sup>6</sup> .....	140	16,946	20,165	15,926	17,705	32,042	34,732	66,774
1935.....	152	15,924	19,424	14,660	16,454	28,262	27,645	55,907
1933.....	117	13,373	13,444	12,540	11,935	21,462	19,138	40,600
1931.....	138	(NA)	(NA)	14,084	16,538	30,107	29,509	59,616
1929.....	159	18,200	28,180	16,539	22,503	46,706	55,298	102,004
1927.....	139	17,428	27,423	15,896	22,855	48,132	51,053	99,185
1925.....	146	16,669	24,403	15,156	20,466	39,942	40,124	80,066
1923.....	163	18,473	25,954	16,722	21,531	40,805	34,448	75,253
1921.....	154	15,152	19,118	13,880	15,882	26,362	26,252	52,614
1919.....	176	20,170	24,274	18,510	19,643	42,587	40,158	82,745
1914.....	224	22,769	14,000	21,318	12,071	20,403	16,947	37,350
1909.....	273	26,827	16,320	25,064	14,223	25,756	22,109	47,865
1904.....	216	23,414	12,770	22,047	11,282	20,654	15,975	36,629
1899.....	171	19,606	10,063	18,880	9,119	14,297	13,514	27,811
Wool-felt hats and hat bodies (S.I.C. 2282):								
1954.....	32	1,750	4,951	1,552	3,862	7,250	6,308	13,559
1949 <sup>5</sup> .....	(NA)	3,359	7,557	3,011	6,340	11,291	9,924	21,215
1947 <sup>7</sup> .....	48	4,427	9,317	3,927	7,487	13,798	12,337	26,135
1939.....	22	4,934	5,103	4,572	4,358	8,161	8,831	16,992
1937 <sup>6</sup> .....	14	4,270	4,153	4,038	3,714	6,926	8,547	15,473
1935.....	12	3,131	3,144	3,005	2,896	5,818	5,367	11,185
1933.....	9	1,675	1,369	1,631	1,264	2,531	1,838	4,369
1931.....	9	(NA)	(NA)	1,543	1,390	3,149	2,283	5,432
1929.....	14	2,197	2,711	2,028	2,315	4,378	4,678	9,056
1927.....	12	2,205	2,449	2,113	2,190	4,317	4,490	8,807
1925.....	22	2,028	2,398	1,854	1,986	3,826	5,123	8,949
1923.....	21	2,171	2,375	1,950	2,005	4,186	4,457	8,643
1921.....	26	1,530	1,556	1,428	1,348	2,510	2,454	4,964
1919.....	40	1,605	1,746	1,448	1,388	3,040	3,700	6,740
1914.....	30	1,334	747	1,249	600	966	978	1,944
1909.....	31	2,091	1,113	1,986	988	1,910	2,472	4,382
1904.....	17	1,571	713	1,503	619	1,087	1,370	2,457
1899.....	24	2,165	1,005	2,108	938	1,550	2,042	3,592
Straw hats (S.I.C. 2283):								
1954.....	48	2,294	6,262	1,992	5,252	11,573	10,897	22,470
1947.....	40	2,438	5,387	2,057	4,113	8,610	9,640	18,250
1939.....	37	3,239	3,345	2,659	2,231	4,909	4,821	9,730
1937.....	47	3,366	3,444	3,024	2,692	6,484	7,138	13,622
1935.....	50	3,249	3,414	2,918	2,644	4,898	7,471	12,369
1933.....	46	3,376	2,365	3,147	2,056	4,730	5,217	9,947
1931.....	50	(NA)	(NA)	2,823	2,784	6,639	7,253	13,892
1929.....	50	3,780	5,056	3,380	3,688	10,034	8,705	18,739
1927 <sup>8</sup> .....	48	3,761	5,522	3,263	4,232	9,935	11,783	21,718
Hatters' fur (S.I.C. 2284):								
1954.....	30	762	2,426	666	1,736	3,902	6,211	10,114
1947.....	46	1,489	3,945	1,345	3,131	8,018	15,805	23,823
1939.....	37	2,082	2,145	1,893	1,579	3,701	7,255	10,956
1937 <sup>9</sup> .....	28	(NA)	(NA)	1,705	1,517	3,700	7,373	11,073

NA Not available.

<sup>1</sup>For the period 1949-1954 figures are based on employment for the payroll periods ended nearest the 15th of March, May, August and November. For 1947, they represent the average of 12 monthly figures. For earlier years, the production worker average was calculated as in 1947, but the figure for all employees represents the sum of the annual average number of production workers and the number of non-production workers reported for one payroll period (usually in October).

<sup>2</sup>Value of products less cost of materials, supplies, fuel, electric energy and contract work. See Introduction, "Value Added by Manufacture."

<sup>3</sup>For 1929 and 1949-1953, value of shipments; for all other years, value of production. See Introduction, "Value of Shipments."

<sup>4</sup>In this industry, which contains a large number of very small establishments, there is a possibility that some of these small establishments have been misclassified as to industry in 1954. This would not affect the statistics other than the number of establishments.

<sup>5</sup>The figures for 1949-1953 represent estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volume for this period. Estimates with a standard error in excess of 15 percent generally have been omitted from this table.

<sup>6</sup>Data for finishing of men's wool-felt hats are included in the figures for "Fur-felt hats and hat bodies" for 1899-1937 and in the figures for "Wool-felt hats and hat bodies" for 1939 and 1947.

<sup>7</sup>Includes 9 establishments primarily engaged in manufacturing fur-felt hats, girls cotton hats, children's caps, beanies, etc. These establishments reported 193 employees (average for the year): \$501,000 wages and salaries; 187 production and related workers (average for the year); \$463,000 wages; \$618,000 value added by manufacture; \$401,000 cost of materials etc.; and \$1,019,000 of shipments.

<sup>8</sup>The figures for "Straw hats" for prior years are not sufficiently comparable to be shown in this table because they include data for women's and children's straw hats.

<sup>9</sup>"Hatter's fur" was not shown as a separate industry prior to 1937, but was included with the industry formerly designated "Hat and caps materials, men's."

## HATS (EXCEPT CLOTH AND MILLINERY)

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Table 2.—GENERAL STATISTICS BY REGIONS AND STATES: 1954 AND 1947  
(For explanation of column captions see Introduction)

Industry, region, and State <sup>1</sup>	1954										1947		
	Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
	Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
Fur-felt hats and hat bodies (S.I.C. 2281), total.....	91	45	8,180	27,258	7,028	12,248	21,317	39,160	31,445	70,605	558	13,034	61,474
New England.....	20	17	3,724	12,344	3,001	5,097	9,165	16,130	11,596	27,727	120	5,751	31,687
Middle Atlantic.....	50	19	3,088	10,989	2,839	4,851	9,234	16,793	11,509	28,303	272	5,868	23,979
New York.....	31	11	504	1,438	467	859	1,183	2,487	2,748	5,235	(D)	1,515	7,071
New Jersey.....	11	2	174	500	158	273	411	697	672	1,370	(D)	677	2,608
Pennsylvania.....	8	6	2,410	9,051	2,213	3,718	7,639	13,608	8,089	21,697	251	3,676	14,300
North Central.....	7	4	370	892	354	645	811	1,152	2,300	3,452	22	635	2,184
South and West.....	14	5	997	3,031	831	1,653	2,105	5,083	6,039	11,123	142	780	3,624
Texas.....	5	4	867	2,667	738	1,492	1,889	4,514	5,502	10,016	(D)	378	(D)
Wool-felt hats and hat bodies (S.I.C. 2282), total.....	32	11	1,750	4,951	1,552	2,809	3,862	7,250	6,308	13,559	148	4,427	13,798
New England.....	4	2	821	2,446	730	1,322	1,978	3,321	3,003	6,324	(D)	(D)	(D)
Middle Atlantic.....	24	9	898	2,436	796	1,439	1,837	3,782	3,076	6,858	(D)	(D)	(D)
Pennsylvania.....	6	4	638	1,660	572	1,020	1,218	2,432	1,927	4,359	35	1,219	(D)
North Central, South and West.....	4		30	68	25	47	47	147	227	375	27	578	1,472
Straw hats (S.I.C. 2283), total.....	48	25	2,294	6,262	1,992	4,103	5,252	11,573	10,897	22,470	73	2,438	8,610
New England.....	4	3	118	328	108	207	250	450	241	692	(D)	(D)	(D)
Massachusetts.....	4	3	118	328	108	207	250	450	241	692	(D)	(D)	(D)
Middle Atlantic.....	30	13	671	2,638	577	1,207	1,877	3,854	3,249	7,103	(D)	...	...
North Central, South and West.....	14	9	1,504	3,295	1,304	2,686	3,124	7,267	7,405	14,674	23	1,704	5,017
Texas.....	4	1	131	284	92	167	140	585	654	1,240	(D)	148	(D)
Hatters' Fur (S.I.C. 2284), total.....	30	11	762	2,426	666	1,250	1,736	3,902	6,211	10,114	69	1,489	8,018
New England.....	19	7	267	1,136	314	643	841	1,813	2,105	3,918	41	828	4,332
Connecticut.....	19	7	267	1,136	314	643	841	1,813	2,105	3,918	41	828	4,332
Middle Atlantic.....	11	4	395	1,289	351	606	895	2,089	4,106	6,195	27	661	3,686

Note: Detailed figures may not add to the totals because of independent rounding.

<sup>1</sup> Withheld to avoid disclosing figures for individual companies.<sup>2</sup> General statistics for some producing States are not shown separately in the table (See INTRODUCTION "Confidentiality of Data for Individual Companies"). Such States are shown below with the number of establishments in each State for 1954 and, in parentheses, the number of employees or the employment-size range for that State for 1954:

S.I.C. 2281, Fur-Felt Hats and Hat Bodies: New England—Massachusetts, 2 (20-99); Connecticut, 18 (2,500-4,999); North Central—Ohio, 1 (1-19); Indiana, 1 (100-249); Illinois, 2 (20-99); Missouri, 3 (100-249); South and West—Virginia, 1 (20-99); Georgia, 2 (1-19); Kentucky, 1 (1-19); California, 5 (1-19).

S.I.C. 2282, Wool-Felt Hats and Hat Bodies: New England—Massachusetts, 2 (500-999); Connecticut, 2 (100-249); Middle Atlantic—New York, 15 (100-249); New Jersey, 3 (20-99); North Central, South and West—Illinois, 1 (1-19); Missouri, 2 (20-99); California, 1 (1-19).

S.I.C. 2283, Straw Hats: Middle Atlantic—New York, 29 (500-999); New Jersey, 1 (20-99); North Central, South and West—Illinois, 4 (100-249); Missouri, 2 (250-499); Maryland, 1 (250-499); Tennessee, 1 (100-249); Oklahoma, 1 (1-19); California, 1 (1-19).

S.I.C. 2284, Hatters' Fur: Middle Atlantic—New York, 2 (20-99); New Jersey, 9 (250-499).



## MANUFACTURES--INDUSTRY STATISTICS

Table 3.—DETAILED STATISTICS FOR THE UNITED STATES: 1954

(For explanation of line captions see Introduction)

Item	Fur-felt hats and hat bodies (S.I.C. 2281) all establishments	Wool-felt hats and hat bodies (S.I.C. 2282)		Straw hats (S.I.C. 2283)		Hatter's fur (S.I.C. 2284) all establishments
		All establishments	Establishments with 90% or more primary product specialization	All establishments	Establishments with 90% or more primary product specialization	
Primary product specialization ratio <sup>1</sup> .....	92	82	xxx	87	xxx	95
Coverage ratio <sup>2</sup> .....	93	96	xxx	75	xxx	100
Number of establishments, total.....	91	32	24	48	34	30
With 1-19 employees.....	46	21	17	23	18	19
With 20-99 employees.....	31	7	5	20	12	10
With 100 employees and over.....	14	4	2	5	4	1
All employees:						
Number (average for year).....	8,180	1,750	779	2,294	1,347	762
Payroll.....\$1,000..	27,258	4,951	2,180	6,262	4,033	2,426
Production workers:						
Number (average for year).....	7,028	1,552	691	1,992	1,158	666
Man-hours.....\$1,000..	12,248	2,809	1,227	4,103	2,297	1,250
Wages.....\$1,000..	21,317	3,862	1,685	5,252	2,962	1,736
Value added by manufacture.....do....	39,160	7,250	3,170	11,573	7,228	3,902
Cost of materials, etc.....do....	31,445	6,308	2,912	10,897	7,007	6,211
Value of shipments.....do....	70,605	13,559	6,082	22,470	14,236	10,114
Value added by resales.....do....	522	58	(NA)	274	139	26
Cost of products bought and resold.....do....	2,203	699	(NA)	928	530	149
Sales of products bought and resold.....do....	2,726	757	(NA)	1,202	669	176
Total inventories, beginning of year.....do....	14,217	4,298	1,448	6,781	4,109	4,274
Total inventories, end of year.....do....	11,308	2,984	1,524	6,083	4,077	3,725
Capital expenditures, new.....do....	558	(3)	(3)	(3)	(3)	(3)
Number of employees for selected months:						
March.....	8,243	1,682	819	2,751	1,618	659
May.....	7,488	1,523	666	2,352	1,397	750
August.....	8,488	2,032	829	1,714	1,007	859
November.....	8,503	1,762	803	2,360	1,363	780
Cost of materials, fuel, electricity and contract work, total.....\$1,000..	31,445	6,308	2,912	10,897	7,007	6,211
Materials, parts, containers, and supplies consumed.....do....	30,166	5,837	2,576	10,518	6,698	5,865
Fuels consumed, total.....do....	493	145	42	79	49	126
Bituminous coal and anthracite:						
Quantity.....short tons..	6	3	(NA)	3	(NA)	4
Value.....\$1,000..	65	31	(NA)	32	(NA)	55
Fuel oil:						
Quantity.....1,000 barrels..	157	38	(NA)	3	(NA)	14
Value.....\$1,000..	401	94	(NA)	11	(NA)	55
Gas:						
Quantity.....million cubic feet..	79	(4)	(NA)	37	(NA)	12
Value.....\$1,000..	24	(5)	(NA)	15	(NA)	16
Other fuels:						
Value.....do....	...	20	(NA)	21	(NA)	...
Electric energy:						
Purchased:						
Quantity.....million kw..	15	4	3	4	3	2
Cost.....\$1,000..	288	82	50	84	45	59
Generated.....million kw..	4	...	...	...	...	...
Cost of contract work.....\$1,000..	498	244	244	216	215	161
Manufacturers' inventories:						
Beginning of year, total.....do....	14,217	4,298	1,448	6,781	4,109	4,274
Finished products.....do....	3,411	1,295	(3)	2,379	1,558	1,505
Work-in-process.....do....	3,316	661	(3)	1,378	1,094	(3)
Materials, supplies, fuel, etc.....do....	7,490	2,341	573	3,023	1,457	2,516
End of year, total.....do....	11,308	2,984	1,524	6,083	4,077	3,725
Finished products.....do....	2,666	850	(3)	2,119	1,542	1,510
Work-in-process.....do....	2,607	(3)	(3)	1,416	1,136	(3)
Materials, supplies, fuel, etc.....do....	6,033	1,675	736	2,547	1,398	1,968
Expenditures for plant and equipment, total.....do....	568	(3)	(3)	(3)	(3)	(3)
Capital expenditures, new.....do....	558	(3)	(3)	(3)	(3)	(3)
New structures and additions to plant.....do....	(3)	(3)	(3)	(3)	(3)	(3)
New machinery and equipment.....do....	(3)	(3)	(3)	(3)	(3)	(3)
Expenditures for used plant and equipment.....do....	(3)	(3)	(3)	(3)	(3)	(3)
Horsepower rating of power equipment at end of 1954:						
Horsepower of prime movers and electric motors driven by purchased energy, total.....1,000 hp..	30	5	(6)	1	1	3
Engines, etc., driving electric generators.....do....	4	3	...	(6)	...	1
Engines, etc., not driving electric generators.....do....	2	(6)	(6)	...	...	(6)
Electric motors driven by purchased energy.....do....	24	2	(6)	1	1	2
Electric motors driven by energy generated at the establishment.....do....	2	...	...	...	...	...

Note: Detailed figures may not add to the totals because of independent rounding. xxx Not applicable. NA Not available. <sup>1</sup>The specialization ratio compares the given industry's shipments of its primary products to its total shipments of all products. (The primary products are listed in Tables 5B and 6A; the first 4-digits of the product code represent the industry code to which the product is primary.) Columns containing totals for establishments with 90% or more primary product specialization are shown only for those industries having a primary product specialization of less than 90%. <sup>2</sup>The coverage ratio measures the extent to which the total shipments of products primary to the given industry are shipped by establishments classified in that industry. <sup>3</sup>Less than \$500 thousand. <sup>4</sup>Less than 500 thousand cubic feet. <sup>5</sup>Less than \$5,000. <sup>6</sup>Less than 500 hp.

## HATS (EXCEPT CLOTH AND MILLINERY)

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Table 4.--SELECTED STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR THE UNITED STATES: 1954

(Value figures in thousands of dollars. For explanation of line captions see Introduction. Data which cannot be shown without disclosing information for individual companies have been combined with figures for other size classes. A (D) appears in the column where the figure has been omitted and the combined figure is underlined and shown in the size-class to the left)

Ind. code	Industry and item	Total, all establishments	Establishments with an average of--									
			1-4 em- ployees	5-9 em- ployees	10-19 em- ployees	20-49 em- ployees	50-99 em- ployees	100-249 employees	250-499 employees	500-999 employees	1,000-2,499 employees	2,500 employees and over
2281	Fur-felt hats & hat bodies:											
	Number of establishments..	91	27	10	9	15	16	7	3	2	2	...
	Number of employees.....	8,180	58	73	136	486	1,129	1,086	1,034	4,176	(D)	...
	Value added by manufacture	39,160	529	477	586	1,659	4,870	4,459	6,194	20,384	(D)	...
2282	Wool-felt hats & hat bodies:											
	Number of establishments..	32	12	6	3	4	3	2	1	1	...	...
	Number of employees.....	1,750	38	43	39	116	171	1,341	(D)	(D)	...	...
	Value added by manufacture	7,250	131	275	282	540	603	5,418	(D)	(D)	...	...
2283	Straw hats:											
	Number of establishments..	48	6	7	10	13	7	3	2	...	...	...
	Number of employees.....	2,294	14	56	139	448	423	1,213	(D)	...	...	...
	Value added by manufacture	11,573	104	254	825	2,267	2,011	6,109	(D)	...	...	...
2284	Hatter's fur:											
	Number of establishments..	30	8	6	5	7	3	1	...	...	...	...
	Number of employees.....	762	21	44	67	232	396	(D)	...	...	...	...
	Value added by manufacture	3,902	94	252	308	1,429	1,817	(D)	...	...	...	...

Note: Detailed figures may not add to the totals because of independent rounding.

Table 5A.--INDUSTRY-PRODUCT ANALYSIS--SUMMARY OF INDUSTRY AND PRIMARY PRODUCT SHIPMENTS, SPECIALIZATION RATIOS AND COVERAGE RATIOS FOR THE UNITED STATES: 1954 AND 1947

Industry code	Industry and census year	Value of shipments					Value of primary products shipped			
		Total	Primary products	Secondary products	Miscellaneous receipts	Primary product specialization ratio <sup>1</sup>	Total (made in all industries)	Made in this industry	Made in other industries	Coverage ratio <sup>2</sup>
		(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	Col. B Col. B+C (Percent)	(\$1,000)	(\$1,000)	(\$1,000)	Col. G Col. F (Percent)
		(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)
2281	Fur-felt hats and hat bodies.1954..	70,605	62,328	5,667	2,610	92	66,836	62,328	4,508	93
	1947..	131,123	120,841	7,876	2,406	94	125,098	120,841	4,257	97
2282	Wool-felt hats and hat bodies.1954..	13,559	10,247	2,257	1,055	82	10,664	10,247	417	96
	1947..	26,135	19,904	6,231	...	76	20,559	19,904	655	97
2283	Straw hats.....1954..	22,470	18,864	2,693	913	87	25,152	18,864	6,288	75
	1947..	18,250	14,362	2,898	990	83	19,430	14,362	5,068	74
2284	Hatters' fur.....1954..	10,114	8,700	428	986	95	8,700	8,700	...	100
	1947..	23,823	<sup>2</sup> 23,823	(D)	(D)	(D)	22,243	(D)	(D)	(D)

<sup>1</sup>The specialization ratio compares the given industry's shipments of its primary products to its total shipments of all products. (The primary products are listed in Tables 5B and 6A; the first 4-digits of the product code represent the industry code to which the product is primary). <sup>2</sup>The coverage ratio measures the extent to which the total shipments of products primary to the given industry are shipped by establishments classified in that industry. <sup>3</sup>Includes over \$2 million in receipts for contract and commission work.

## MANUFACTURES--INDUSTRY STATISTICS

Table 5B.—INDUSTRY-PRODUCT ANALYSIS—SHIPMENTS BY PRODUCT CLASS AND INDUSTRY, FOR THE UNITED STATES: 1954

(In thousands of dollars. The first column shows the total value of shipments of the specified industry divided among: (a) products classified in the industry (primary products), (b) products classified in other industries (secondary products) and (c) miscellaneous receipts. The value of shipments of the primary products of the specified industry reported by establishments not classified in that industry is shown under the caption "Other Industries." Industries accounting for significant amounts of the primary products listed are shown in separate columns provided that the figures for individual companies are not thereby disclosed. The last column shows the total value of shipments of the primary products of the industry by all manufacturing industries)

Prod. class code	Fur-felt hats and hat bodies industry	Fur-felt hats and hat bodies (S.I.C. 2281)	Other industries	All industries	Prod. class code	Straw hat industry	Straw hats (S.I.C. 2283)	Other industries	All industries
	Total shipments of the industry.	70,605	xxx	xxx		Total shipments of the industry.	22,470	xxx	xxx
22810	Fur-felt hats and hat bodies.....	62,328	4,508	66,836	22830	Straw hats.....	18,864	6,288	25,152
	Secondary products.....	5,667	xxx	xxx		Secondary products.....	2,693	xxx	xxx
22830	Straw hats.....	4,773	xxx	xxx		Miscellaneous receipts.....	913	xxx	xxx
	Other secondary products.....	894	xxx	xxx					
	Miscellaneous receipts.....	2,610	xxx	xxx					
	Contract and commission work....	1,682	xxx	xxx	Prod. class code	Hatters' fur industry	Hatters' fur (S.I.C. 2284)	Other industries	All industries
	Other.....	928	xxx	xxx		Total shipments of the industry.	10,114	xxx	xxx
Prod. class code	Wool-felt hats and hat bodies	Wool-felt hats and hat bodies (S.I.C. 2282)	Other industries	All industries	22840	Hatters' fur.....	8,700	...	8,700
	Total shipments of the industry.	13,559	xxx	xxx		Secondary products.....	428	xxx	xxx
22820	Wool-felt hats and hat bodies.....	10,247	417	10,664		Miscellaneous receipts.....	986	xxx	xxx
	Secondary products.....	2,257	xxx	xxx					
	Miscellaneous receipts.....	1,055	xxx	xxx					
	Contract and commission work....	1,041	xxx	xxx					
	Other.....	(1)	xxx	xxx					

xxx Not applicable.

<sup>1</sup>Less than \$100 thousand.



## HATS (EXCEPT CLOTH AND MILLINERY)

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Table 6A.--QUANTITY AND VALUE OF PRODUCTS SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, FOR THE UNITED STATES: 1954 AND 1947

Product code	Product	1954				1947			
		Production		Finished in this plant from purchased hat bodies		Production		Finished in this plant from purchased hat bodies	
		Quantity (1,000 dozen)	Value (\$1,000)	Quantity (1,000 dozen)	Value (\$1,000)	Quantity (1,000 dozen)	Value (\$1,000)	Quantity (1,000 dozen)	Value (\$1,000)
2281---	Fur-felt hats and hat bodies, total.....	xxx	66,836	xxx	23,535	xxx	125,098	xxx	35,973
	Fur-felt hat bodies made for sale as such:								
2281011	Men's and boys'.....	441	7,920	xxx	xxx	1,036	25,906	xxx	xxx
2281015	Women's and children's.....	391	5,552	xxx	xxx	487	9,149	xxx	xxx
	Finished fur-felt hats, excluding millinery:								
2281051	Men's and boys'.....	858	51,748	558	23,502	1,584	89,069	718	35,973
2281055	Women's and children's.....	18	401	1	33	xxx	( <sup>1</sup> )	xxx	( <sup>1</sup> )
2281000	Fur-felt hats and hat bodies, not specified by kind.....	xxx	1,215	xxx	xxx	xxx	1,974	xxx	xxx
2282---	Wool-felt hats and hat bodies, total.....	xxx	10,664	xxx	264	xxx	20,579	xxx	1,652
	Wool-felt hat bodies made for sale as such:								
2282011	Men's and boys'.....	725	4,335	xxx	xxx	131	897	xxx	xxx
2282015	Women's and children's.....			xxx	xxx	2,393	11,687	xxx	xxx
	Finished wool-felt hats, excluding millinery:								
2282051	Men's and boys'.....	317	4,410	7	264	496	7,371	79	1,307
2282055	Women's and children's.....	(NA)	1,276			29	604	16	345
2282000	Wool-felt hats and hat bodies, not specified by kind.....	xxx	643	xxx	xxx	xxx	xxx	xxx	xxx
2283---	Straw hats, total.....	xxx	25,152	xxx	11,344	xxx	19,430	xxx	13,340
	Finished hats, excluding millinery:								
	Men's and boys':								
2283011	Sewed braid:								
	Quantity reported.....	244	5,572	124	2,836	592	10,611	271	5,344
	Quantity not reported.....	xxx	865						
2283015	Woven body.....	377	10,378	257	5,817	(NA)	6,274	(NA)	6,274
	Women's and children's, excluding millinery:								
2283031	Sewed braid.....	84	2,011	11	563	34	954	11	131
2283041	Woven body.....	4	187	4	185	( <sup>2</sup> )	( <sup>2</sup> )	xxx	xxx
2283051	Harvest hats.....	680	3,943	368	1,586	332	1,591	332	1,591
2283000	Straw hats, not specified by kind.....	xxx	2,196	xxx	357	xxx	xxx	xxx	xxx
2284---	Hatter's fur, total.....	xxx	8,700	xxx	xxx	6,130	22,243	...	...
2284011	Hatter's fur, cut or blown for sale:								
	Quantity reported.....	<sup>3</sup> 2,284	7,767	xxx	xxx	<sup>3</sup> 6,130	22,243	...	...
	Quantity not reported.....	xxx	933	xxx	xxx	xxx	xxx	xxx	xxx

<sup>1</sup>Combined with total value of production of "other fur-felt hats and hat bodies" to avoid disclosing figures for individual companies.<sup>2</sup>Included in Industry 2351 in 1947.<sup>3</sup>Represents thousands of pounds.

## MANUFACTURES--INDUSTRY STATISTICS

Table 7.—MATERIALS CONSUMED, BY KIND: 1954

(Figures in thousands)

Code	Description of materials	Industry 2281—Fur-felt hats and hat bodies		Industry 2282—Wool felt hats and hat bodies	
		Quantity (1,000 lb.)	Delivered cost (\$1,000)	Quantity (1,000 lb.)	Delivered cost (\$1,000)
	Materials, containers, and supplies, total.....	xxx	30,166	xxx	5,837
221121	Raw wool (scoured weight).....	...	...	428	688
221100	Wool nolls and waste.....	...	...	1,771	2,175
228411	Hatters' fur.....	2,872	8,099	xxx	(1)
970000	Other materials, containers, and supplies consumed.....	xxx	22,067	xxx	12,974

<sup>1</sup>Hatter's fur included with "Other" to avoid disclosure of operations of individual companies.

Table 8.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY INDUSTRY SPECIALIZATION AND PRIMARY PRODUCT CLASS SPECIALIZATION, FOR THE UNITED STATES: 1954

(This table presents selected statistics for establishments classified according to their degree of specialization in products primary to the industry. The establishments are classified in two ways: (1) by industry specialization—the degree of specialization in all primary products of the industry; and (2) by product-class specialization—the degree of specialization in the largest product class of the establishment. The degree of "industry specialization" for an establishment represents the ratio of its primary product shipments to its total product shipments, primary and secondary. The degree of "product-class specialization" for an establishment represents the ratio of its largest product class shipments to its total product shipments, primary and secondary. Data are not shown for some industries, product classes, and specialization ranges for a variety of reasons, consequently, detailed figures frequently do not add to the totals. See Introduction for detailed explanation)

Ind. or product class No.	Industry or product class by percent of specialization	Establishments, number	All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
2282	WOOL-FELT HATS AND HAT BODIES (entire industry).....	32	1,750	4,951	1,552	2,809	3,862	7,250	6,308	13,559
	Establishments with:									
	90% or more specialization.....	24	779	2,180	691	1,227	1,685	3,170	2,912	6,082
2283	STRAW HATS (entire industry).....	48	2,294	6,262	1,992	4,103	5,252	11,573	10,897	22,470
	Establishments with:									
	90% or more specialization.....	34	1,347	4,033	1,158	2,297	2,962	7,228	7,007	14,236
	75-89% specialization.....	4	147	327	139	272	301	310	554	865
	50-74% specialization.....	5	646	1,305	558	1,259	1,577	3,279	3,180	6,460
	All other <sup>1</sup> .....	5	153	596	136	274	411	753	154	908

<sup>1</sup>This class includes data for establishments with less than 50% specialization in the primary products of the industry and establishments engaged exclusively in contract work defined in the industry. Miscellaneous small statistical adjustments are also included.

## Miscellaneous Textile Goods

This report shows 1954 Census of Manufactures statistics for establishments classified in each of the following industries:

Code	Title
2291--	Felt Goods, Not Elsewhere Classified
2292--	Lace Goods
2293--	Padding and Upholstery Filling
2294--	Processed Textile Waste
2295--	Coated Fabrics, Except Rubberized
2298--	Cordage and Twine
2299--	Textile Goods, Not Elsewhere Classified

As the title implies, these industries manufacture textile products but are not otherwise related. Each industry has more or less unique equipment requirements and there is very little interchange or overlap of facilities. With few exceptions, there are no common ties of ownership between these industries or with other Major Group 22 industries.

**2291--Felt Goods, N.E.C. (Full Standard Industrial Classification Title: Felt Goods, Except Woven Felts and Hats)**

This industry comprises establishments primarily engaged in manufacturing insulating and automotive felts, under-rug mats, and other felt goods, from wool, hair, and jute, by means of heat, moisture, and pressure, or by the needle-loom process. Establishments primarily engaged in manufacturing wool woven felts and haircloth are classified in Census Industry 2213 (SIC Industry 2232), Woolen and Worsted Fabrics; felthats in Group 228, Hats, except Cloth and Millinery; and building paper felt, Industry 2613, Building Paper and Board Mills. For a detailed list of primary products of Industry 2291, refer to Table 6A, product codes 2291011 to 2291098.

The value of shipments of Industry 2291, Felt goods, n.e.c. in 1954 totaled \$93 million. This included shipments of primary products (felt goods, except woven felts and hats) valued at \$82 million, shipments of secondary products valued at \$9 million, and miscellaneous receipts (mainly contract work on materials owned by others) of \$2 million.

Industry 2291 shipments of primary products in 1954 represented 90 percent of its total product shipments (primary and secondary). In 1947, the primary product specialization ratio was 95 percent. Secondary products shipped by Industry 2291 in 1954 included \$3 million of padding and upholstery filling, and a variety of other textile products.

In Industry 2291 shipments of felt goods, except woven felts or hats in 1954 represented 92 percent of those products valued at \$89 million shipped by all industries. The 1947 coverage ratio was 97 percent.

### 2292--Lace Goods

This industry comprises establishments primarily engaged in manufacturing lace-machine products such as levers laces, bobbinet, Nottingham lace (curtain nets, curtains, bedspreads, table covers), and Barmen lace. This industry also includes establishments primarily engaged in dyeing and finishing lace goods. Establishments primarily engaged in manufacturing machine embroideries are classified in Industry 2397, Schiffli-Machine Embroideries or 2398, Embroideries, except Schiffli. For a detailed list of primary products of Industry 2292, refer to Table 6A, product codes 2292011 to 2292098.

The value of shipments of Industry 2292, Lace Goods in 1954 totaled \$60 million. This included shipments of primary products (lace goods) valued at \$51 million, shipments of secondary products valued at \$1 million, and miscellaneous receipts (mainly contract work on materials owned by others) of \$8 million.

Industry 2292 shipments of lace goods in 1954 represented 99 percent of its total product shipments (primary and secondary). In 1947, this primary product specialization ratio was 94 percent.

Industry 2292 shipments of lace goods in 1954 represented 94 percent of lace goods valued at \$55 million shipped by all industries. The 1947 coverage ratio was 97 percent.

### 2293--Padding and Upholstery Filling

This industry comprises establishments primarily engaged in manufacturing batting, padding, wadding, and upholstery filling from curled hair, cotton, moss, hemp tow, flax tow, kapok, and related materials. Establishments primarily manufacturing hard fiber automotive and other pads are also included in this industry. Establishments primarily engaged in manufacturing excelsior pads and wrappers are classified in Industry 2425, Excelsior Mills. For a detailed list of primary products of Industry 2293, refer to Table 6A, product codes 2293011 to 2293059.

The value of shipments of Industry 2293 in 1954 totaled \$149 million. This included shipments of primary products (paddings and upholstery filling) valued at \$135 million and shipments of secondary products valued at \$13 million.

Industry 2293 shipments of paddings and upholstery fillings in 1954 represented 91 percent of its total product shipments (primary and secondary). In 1947, this primary product specialization ratio was 96 percent. Secondary products shipped by this industry in 1954 consisted of a variety of textile products.

Industry 2293 shipments of paddings and upholstery filling in 1954 represented 90 percent of the paddings and upholstery filling valued at \$149 million shipped by all industries. The 1947 coverage ratio was 92 percent. Other industries shipping paddings and upholstery filling consisted mainly of Industry 2515, Mattresses and Bedsprings \$8 million; and Industry 2291, Felt Goods, n.e.c., \$3 million.

**2294--Processed Textile Waste (Full Standard Industrial Classification Title: Processed Waste and Recovered Fibers)**

This industry comprises establishments primarily engaged in processing textile-mill waste for spinning and other uses, and in recovering cotton, wool, rayon, silk, and other fibers from clippings and rags. Establishments primarily engaged in manufacturing oakum are also included in this industry. Establishments primarily engaged in processing wiping rags are classified in Wholesale Trade. Sales by textile mills of "original" mill waste such as card strips, comber noils and sweepings are not classified as processed textile waste. The product data shown in this bulletin exclude such textile mill waste which are shown in Bulletins MC-22A, Woolen and Worsted Manufactures, and MC-22B, Cotton, Rayon and Related Manufactures. For a detailed list of primary products of Industry 2294, refer to Table 6A, product codes 2294011 to 2294098.

The value of shipments of Industry 2294 in 1954 totaled \$85 million. This included shipments of primary products (processed textile waste) valued at \$72 million, shipments of secondary products valued at \$3 million, and miscellaneous receipts of \$10 million.

Industry 2294 shipments of processed textile waste in 1954 represented 96 percent of its total product shipments (primary and secondary). In 1947, this primary product specialization ratio was 94 percent. Secondary products shipped by this industry in 1954 consisted of various textile products.

Industry 2294 shipments of processed textile waste in 1954 represented 93 percent of these products valued at \$76 million shipped by all industries. The 1947 coverage ratio was 94 percent. The principal other industry shipping processed textile waste in 1954 was Industry 2298, Cordage and Twine, \$2 million.

**2295--Coated Fabrics, Except Rubberized (Full Standard Industrial Classification Title: Artificial Leather, Oilcloth, and Other Impregnated and Coated Fabrics, Except Rubberized)**

This industry comprises establishments primarily engaged in manufacturing artificial leather, oilcloth, and other coated



and impregnated fabrics, and in the finishing of textiles such as the waxing of cloth and finishing of cambric and buckram. Establishments primarily engaged in waterproofing, flameproofing, mildew proofing, mercerizing, and embossing textile fabrics are classified in Industry 2261, Finishing Textiles, Except Wool. Establishments primarily engaged in manufacturing coated and processed paper, including varnished and leatherette paper, are classified in Industry 2641, Paper Coating And Glazing; and those manufacturing rubberized fabrics in Industry 3099, Rubber Industries, Not Elsewhere Classified. For a detailed list of primary products of Industry 2295, refer to Table 6A, product codes 2295111 to 2295398.

In the 1947 Census of Manufactures, plants primarily producing unsupported non-rubber film from purchased resins were included in Industry 2295. In 1954, such establishments are classified in Industry 3971, Plastics Products, Not Elsewhere Classified. The 1947 Census data have been retabulated to reflect this change.

The value of shipments of Industry 2295 in 1954 totaled \$212 million. This included shipments of primary products (coated fabrics, except rubberized) valued at \$175 million, shipments of secondary products valued at \$28 million, and miscellaneous receipts (mainly for contract work on materials owned by others) of \$9 million.

Industry 2295 shipments of coated fabrics, except rubberized in 1954 represented 86 percent of its total product shipments (primary and secondary). In 1947, this primary product specialization ratio was 84 percent. Secondary products shipped by Industry 2295 in 1954 included rubber products \$3 million, coated paper, \$4 million, and vinyl and polyethylene unsupported film and sheets, \$5 million.

Industry 2295 shipments of coated fabrics, except rubberized in 1954 represented 82 percent of these products valued at \$215 million shipped by all industries. The 1947 coverage ratio was also 82 percent.

#### 2298--Cordage and Twine

This industry comprises establishments primarily engaged in manufacturing rope, cable, cordage, twine, nets, and seines and related goods, from hemp, jute, cotton, paper, flax, and other fibers. Establishments primarily engaged in manufacturing cotton yarns for cordage, rope and twine are classified in Industry 2224, Yarn Mills, Cotton System; and Linen Nets and Seines in Industry 2299, Textile Goods, N.E.C. For a detailed list of primary products of Industry 2298, refer to Table 6A, product code 2298111 to 2298398.

The value of shipments of Industry 2298 in 1954 totaled \$160 million. This included shipments of primary products (cordage and twine) valued at \$143 million, shipments of secondary products valued at \$16 million, and miscellaneous receipts of \$2 million.

Industry 2298 shipments of cordage and twine in 1954 represented 90 percent of its total product shipments (primary and secondary). In 1947, this primary product specialization ratio was 87 percent. Secondary products shipped by Industry 2298 in 1954 consisted of yarns spun on cotton system (\$4 million), processed textile waste and recovered fibers (\$2 million) and other secondary products (\$9 million).

Industry 2298 shipments of cordage and twine in 1954 represented 89 percent of the cordage and twine, valued at \$160 million shipped by all industries. The 1947 coverage ratio was 87 percent. Other industries shipping cordage and twine included Industry 2299, Textile Goods, N.E.C. \$6 million.

Establishments classified in Industry 2298 accounted for almost 100 percent of all shipments of hard fiber cordage and twine (product class 22981).

2299--Textile Goods, Not Elsewhere Classified (Includes Standard Industrial Classification Industry 2296, Linen Goods; Industry 2297, Jute Goods, Except Felt, and Industry 2299, Textile Goods, Not Elsewhere Classified.)

This industry comprises establishments primarily engaged in manufacturing linen goods, jute goods, except felts and other textile goods, not elsewhere classified. Important products of this industry include flax yarn and thread; linen fabrics; jute yarn, roving, webbing and bagging; non-woven (bonded) textiles; novelty yarns made from purchased yarns, glass fiber yarn and cord; paper yarns; metallic yarns; hemp and ramie yarn, thread, and textiles; rope slings and scaffolds; and linen nets and seines. Establishments primarily engaged in manufacturing linen or jute cordage and twine are classified in Industry 2298, Cordage and Twine. Establishments primarily engaged in manufacturing jute felts are classified in Industry 2291, Felt Goods (Except Woven Felts And Hats). For a detailed list of primary products of Industry 2299, refer to Table 6A, product codes 2297111 to 2297198 and 2299111 to 2299298.

The value of shipments of Industry 2299 in 1954 totaled \$122 million. This included shipments of primary products (textile goods, not elsewhere classified) valued at \$104 million, shipments of secondary products valued at \$14 million, and miscellaneous receipts (mainly contract work on materials owned by others) of \$3 million.

Industry 2299 shipments of textile goods, not elsewhere classified in 1954 represented 88 percent of its total product shipments (primary and secondary). In 1947 this primary product specialization ratio was 87 percent. Secondary products shipped by this industry in 1954 included \$6 million of soft fiber cordage and twine, except cotton.

Industry 2299 shipments of textile goods, not elsewhere classified in 1954 represented 81 percent of these products, valued at \$129 million shipped by all industries. In 1947 this coverage ratio was 76 percent.

The general statistics (employment, payrolls, value of shipments, cost of materials, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products, and, for that matter, their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (Tables 1-4) with product statistics (Table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in Table 5A which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry made as secondary products by establishments classified in other industries.

## MISCELLANEOUS TEXTILE GOODS

22F-3

Table 1.—GENERAL STATISTICS FOR THE UNITED STATES: 1954 AND EARLIER YEARS

(For explanation of column captions see Introduction)

Industry and census year	Establishments, number	All employees		Production workers		Value added by manufacture <sup>2</sup> (\$1,000)	Cost of materials, etc. <sup>3</sup> (\$1,000)	Value of shipments <sup>4</sup> (\$1,000)
		Number <sup>1</sup>	Payroll (\$1,000)	Number <sup>1</sup>	Wages (\$1,000)			
Felt goods, n.e.c. (S.I.C. 2291):								
1954 <sup>7</sup> .....	72	5,987	23,376	5,182	18,083	41,656	51,275	92,931
1952 <sup>5</sup> .....	(NA)	4,788	19,561	4,134	15,211	37,697	49,426	87,123
1951 <sup>5</sup> .....	(NA)	4,889	20,387	4,277	15,914	39,492	65,854	105,346
1947.....	46	4,737	14,177	4,167	11,109	24,881	34,883	59,764
1939.....	37	3,770	4,870	3,346	3,857	10,526	13,048	23,574
1937.....	39	4,145	5,540	3,711	4,529	11,000	18,649	29,649
1935 <sup>6</sup> .....	40	3,974	4,407	3,576	3,438	10,192	13,505	23,697
Lace goods (S.I.C. 2292):								
1954 <sup>7</sup> .....	138	7,442	26,117	6,568	20,492	37,734	22,061	59,795
1952 <sup>5</sup> .....	(NA)	8,141	27,471	7,152	21,381	45,994	30,831	75,526
1947.....	96	8,580	21,346	7,856	17,745	44,872	26,099	68,663
1939.....	63	8,341	10,792	7,254	8,107	15,353	8,785	24,138
1937.....	57	8,987	11,023	8,109	9,037	17,808	10,534	28,342
1935.....	56	8,810	10,814	7,858	8,686	17,496	10,032	27,528
1933.....	44	6,496	6,647	5,914	5,582	11,116	5,813	16,929
1931.....	42	(NA)	(NA)	6,043	6,289	13,039	6,123	19,162
1929.....	42	7,690	10,570	6,854	7,670	19,125	10,112	29,237
1927.....	43	7,234	9,799	6,482	7,585	15,906	11,392	27,298
1925.....	42	7,785	9,961	7,006	7,620	17,483	13,361	30,844
1923.....	39	7,966	10,247	7,307	8,085	21,161	14,631	35,792
1921.....	37	6,985	8,225	6,396	6,209	14,660	11,321	25,981
1919.....	44	7,188	8,111	6,490	6,087	16,321	13,076	29,397
1914 <sup>8</sup> .....	41	8,113	4,679	7,440	3,468	7,530	5,677	13,207
Padding and upholstery filling (S.I.C. 2293):								
1954 <sup>9</sup> .....	200	9,111	33,031	7,777	24,489	61,499	87,329	148,828
1947.....	139	8,306	21,466	7,431	17,119	44,765	65,587	110,352
1939.....	124	5,291	6,188	4,505	4,120	13,292	16,921	30,213
1937.....	110	5,229	6,019	4,645	4,353	12,982	23,888	36,870
1935 <sup>10</sup> .....	110	3,746	3,958	3,248	2,592	9,778	15,853	25,631
Processed textile waste (S.I.C. 2294):								
1954 <sup>9</sup> .....	203	5,768	17,570	4,856	12,717	30,723	54,299	85,023
1947.....	179	5,805	12,894	5,149	9,822	22,612	34,643	57,255
1939.....	153	5,683	6,167	4,844	3,934	10,495	22,479	32,974
1937 <sup>11</sup> .....	125	(NA)	(NA)	5,418	4,639	11,354	26,555	37,909
Coated fabric, except rubberized (S.I.C. 2295):								
1954.....	106	8,547	41,699	6,576	27,386	80,294	132,016	212,310
1953 <sup>9</sup> .....	(NA)	11,826	54,547	8,840	35,231	107,158	198,067	305,225
1952 <sup>9</sup> .....	(NA)	11,269	49,471	8,533	32,725	98,090	153,505	251,595
1951 <sup>9</sup> .....	(NA)	12,038	49,574	9,113	32,319	95,935	177,763	273,698
1949 <sup>9</sup> .....	(NA)	8,939	31,094	6,868	20,772	66,376	112,101	178,477
1947.....	105	8,588	27,925	6,869	19,692	52,491	110,106	162,597
1939 <sup>12</sup> .....	92	(NA)	(NA)	5,895	7,790	28,273	34,929	63,202
Cordage and twine (S.I.C. 2298):								
1954.....	137	12,327	37,374	10,709	28,128	77,298	82,649	159,948
1953 <sup>9</sup> .....	(NA)	13,887	43,201	12,188	33,353	75,022	97,910	172,932
1952 <sup>9</sup> .....	(NA)	14,078	42,556	12,268	32,835	82,308	130,561	213,888
1951 <sup>9</sup> .....	(NA)	15,706	45,932	13,954	35,953	83,731	153,239	237,989
1949 <sup>9</sup> .....	(NA)	13,985	35,281	12,149	27,204	59,865	96,765	157,014
1947 <sup>13</sup> .....	149	16,366	37,143	14,482	29,190	73,795	104,606	170,897
1939 <sup>14</sup> .....	124	(NA)	(NA)	12,587	10,633	30,487	29,267	59,754
1937.....	118	15,237	41,643	14,043	11,683	28,396	38,022	66,418
1935.....	112	13,434	11,915	12,260	9,074	23,213	23,743	46,956
1933.....	110	12,080	9,149	11,145	7,373	20,430	18,284	38,714
1931.....	117	(NA)	(NA)	11,087	8,627	23,155	24,402	47,557
1929.....	123	15,898	16,830	14,489	12,834	36,882	54,573	91,455
1927.....	116	16,489	17,530	15,084	13,674	33,067	56,105	89,172
1925.....	118	16,866	17,788	15,400	14,019	33,600	66,848	100,448
1923.....	121	17,901	19,257	16,382	15,148	34,641	53,642	88,283
1921.....	118	16,111	16,988	14,593	12,924	28,875	46,481	75,356
1919.....	120	19,203	18,716	17,622	14,700	43,661	89,705	133,366
1914.....	105	16,811	8,625	15,769	6,996	16,156	43,605	59,761
1909.....	112	15,498	6,506	14,629	5,304	12,627	29,315	41,942
1904.....	102	15,345	6,338	14,614	5,338	11,921	36,096	48,017
1899.....	105	13,550	4,780	13,114	4,113	11,218	26,632	37,850

See footnotes at end of table.

## MANUFACTURES--INDUSTRY STATISTICS

Table 1.--GENERAL STATISTICS FOR THE UNITED STATES: 1954 AND EARLIER YEARS--Continued

(For explanation of column captions see Introduction)

Industry and census year	Establishments, number	All employees		Production workers		Value added by manufacture <sup>2</sup> (\$1,000)	Cost of materials, etc. <sup>3</sup> (\$1,000)	Value of shipments <sup>4</sup> (\$1,000)
		Number <sup>1</sup>	Payroll (\$1,000)	Number <sup>1</sup>	Wages (\$1,000)			
Textile goods, n.e.c. (Census Code 2299):								
1954.....	108	8,975	29,106	7,736	21,116	54,115	67,488	121,603
1953 <sup>5</sup> .....	(NA)	10,356	34,990	8,910	26,925	61,838	68,684	130,522
1952 <sup>5</sup> .....	(NA)	11,218	36,333	9,589	27,273	59,392	63,831	123,223
1951 <sup>5</sup> .....	(NA)	9,837	29,840	8,641	23,639	51,658	56,856	108,516
1947.....	59	7,583	17,795	6,780	14,187	32,730	33,119	65,109

NA Not available.

<sup>1</sup>For the period 1949-1954, figures are based on employment for the payroll periods ended nearest the 15th of March, May, August and November. (However, in the case of the "coated fabrics, except rubberized" industry a different method was used for 1954. All employees represents the average of 12 monthly figures, and production workers was calculated by subtracting from the all employees total the average number of nonproduction employees for March, May, August and November.) For 1947, they represent the average of 12 monthly figures. For earlier years, the production worker average was calculated as in 1947, but the figure for all employees represents the sum of the annual average number of production workers and the number of nonproduction workers reported for one payroll period (usually in October).

<sup>2</sup>Value of products less cost of materials, supplies, fuel, electric energy and contract work. See Introduction "Value Added by Manufacture." For the "Lace goods," "Cordage and twine" and "Textile goods, nec," industries, the 1947 value added by manufacture does not equal the published value of products shipped less cost of materials, etc., because an estimated value of production was used in the calculation in place of value of products shipped. Since the 1949-1952 figures are estimates derived from the 1947 base totals, the same inequality may exist for these years.

<sup>3</sup>Figures for years prior to 1935 (1933 for "Lace goods") do not include cost of contract work.

<sup>4</sup>For 1947-1954, value of shipments; for all other years, value of production. See Introduction "Value of Shipments."

<sup>5</sup>The figures for 1949-1953 represent estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period. Estimates with a standard error in excess of 15 percent generally have been omitted from this table.

<sup>6</sup>The figures for "Felt goods, nec" prior to 1935 are not sufficiently comparable with those for later years to be shown in this table because they include data for woven felts, which are no longer classified in this industry.

<sup>7</sup>The larger number of establishments in 1954 is due primarily to an increase in the number of very small lace finishing plants operating on a commission basis.

<sup>8</sup>"Lace goods" was not shown as a separate industry in 1914, but was included with "Cotton goods" and "Cotton small wares."

<sup>9</sup>In this industry, which contains a number of very small establishments, there is a possibility that some of these small establishments have been misclassified as to industry. This would not affect the statistics other than the number of establishments.

<sup>10</sup>Prior to 1935, the products of this industry were included in the "Cotton goods," "Woolen goods," and "Upholstering materials, nec," industries.

<sup>11</sup>The figures for "Processed textile waste" prior to 1937 are not sufficiently comparable with these for later years to be shown in this table because they include data for wiping rags, which are no longer classified as a manufactured product.

<sup>12</sup>No comparable figures are available for prior years.

<sup>13</sup>Includes 2 small establishments with total shipments of less than \$10,000 incorrectly classified in the "Hard fiber cordage and twine" industry and 4 establishments that lay rope from semi-manufactured products.

<sup>14</sup>The figures for 1939 have been revised to include data for fish nets and seines and are comparable with figures for 1947. Value added for 1939, excluding data for fish nets and seines and on a basis comparable with earlier years, was \$29.0 million.



## MISCELLANEOUS TEXTILE GOODS

22F-5

Table F.—GENERAL STATISTICS BY REGIONS AND STATES: 1954 AND 1947  
(For explanation of column captions see Introduction)

Industry, region, and State <sup>1</sup>	1954											1947	
	Establishments, number		All employees		Production workers			Value added by manufacture	Cost of materials, etc.	Value of shipments	Capital expenditures, new	All employees, number	Value added by manufacture
	Total	Of more than 10 employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)		(\$1,000)
Felt goods, nec (S.I.C. 2291), total.....	72	33	5,987	23,376	5,182	10,767	18,083	41,656	51,275	92,931	1,623	4,737	24,881
New England.....	17	10	1,262	5,255	1,106	2,316	4,194	9,402	13,739	23,142	505	1,267	6,747
Middle Atlantic.....	27	8	1,463	6,125	1,247	2,527	4,644	10,007	14,485	24,492	273	1,544	7,773
Pennsylvania.....	6	3	545	2,299	457	960	1,630	4,186	5,890	10,077	118	354	(D)
North Central.....	17	9	1,813	7,389	1,493	3,117	5,448	13,148	15,308	28,457	547	1,451	7,826
Illinois.....	8	4	1,076	4,518	859	1,818	3,172	8,461	9,765	18,227	485	979	(D)
Wisconsin.....	3	3	366	1,418	320	664	1,136	2,608	3,380	5,988	54	(D)	(D)
South Atlantic.....	5	3	986	2,423	954	1,272	2,087	3,367	3,630	7,998	69		
Pacific.....	6	3	461	2,182	381	933	1,704	4,729	4,111	8,841	227	475	2,535
California.....	6	3	461	2,182	381	933	1,704	4,729	4,111	8,841	227		
Lace goods (S.I.C. 2292), total.....	138	62	7,442	26,117	6,568	12,521	20,492	37,734	22,061	59,795	1,941	8,580	44,872
Middle Atlantic.....	72	30	3,898	13,218	3,381	6,384	10,088	18,499	12,148	30,648	827	5,370	27,681
New York.....	36	14	1,367	4,969	1,218	2,477	3,755	7,090	4,610	11,700	343	1,197	6,273
New Jersey.....	29	10	914	3,190	847	1,546	2,744	4,783	2,773	7,556	329	864	3,985
Pennsylvania.....	7	6	1,617	5,058	1,315	2,360	3,588	6,626	4,765	11,391	154	3,309	17,423
All other Divisions.....	66	32	3,544	12,899	3,187	6,137	10,404	19,235	9,913	29,147	1,114	3,210	17,191
Rhode Island.....	55	23	2,775	10,008	2,533	4,853	8,137	15,285	7,548	22,834	1,001	2,213	12,438
Connecticut.....	5	5	486	1,938	392	744	1,430	2,514	1,474	3,988	25	451	(D)
Padding and upholstery filling (S.I.C. 2293), total.....	200	82	9,111	33,031	7,777	16,031	24,489	61,499	87,329	148,828	3,485	8,306	44,765
New England.....	20	5	580	2,239	452	869	1,197	3,314	5,943	9,257	141	564	2,765
Massachusetts.....	13	2	175	719	136	307	415	1,217	2,155	3,372	6	143	1,096
Middle Atlantic.....	56	23	2,024	7,446	1,715	3,429	5,656	14,123	18,742	32,865	789	1,738	8,551
New York.....	36	10	848	2,958	719	1,448	2,289	5,315	7,411	12,726	550	820	4,347
New Jersey.....	9	5	710	2,923	624	1,286	2,360	6,101	7,544	13,646	213	415	2,347
Pennsylvania.....	11	8	465	1,564	371	693	1,006	2,706	3,786	6,493	25	503	1,857
East North Central.....	52	25	3,312	13,653	2,843	5,937	10,555	26,793	32,073	58,867	1,590	3,527	(D)
Ohio.....	8	2	685	2,909	600	1,222	2,467	6,687	7,618	14,306	529	384	(D)
Illinois.....	21	11	699	2,880	591	1,267	1,862	5,096	8,205	13,301	289	635	3,649
Michigan.....	14	9	1,346	5,753	1,176	2,471	4,621	10,262	11,734	21,996	686	2,111	(D)
West North Central.....	8	3	539	1,974	444	921	1,252	3,653	4,348	8,001	174	603	(D)
South Atlantic.....	22	6	1,169	3,035	1,058	2,124	2,216	4,150	10,980	15,131	469	(D)	(D)
North Carolina.....	7	2	417	1,057	377	716	745	1,190	5,112	6,302	87	378	1,617
Georgia.....	5	1	458	1,114	418	845	841	1,267	3,313	4,580	(D)	(D)	(D)
East South Central.....	5	3	168	558	150	396	457	1,551	2,584	4,136	37	(D)	(D)
Tennessee.....	5	3	168	558	150	396	457	1,551	2,584	4,136	37	(D)	(D)
West South Central.....	17	6	695	1,796	597	1,356	1,464	3,588	5,023	8,611	110	711	(D)
Pacific.....	20	11	620	2,329	515	996	1,688	4,324	7,633	11,958	172	376	2,300
California.....	17	11	609	2,282	504	979	1,653	4,231	7,384	11,616	167	339	(D)
Processed textile waste (S.I.C. 2294), total.....	203	77	5,768	17,570	4,856	10,142	12,717	30,723	54,299	85,023	1,513	5,805	22,612
New England.....	81	28	1,734	5,528	1,453	3,145	3,972	10,224	20,060	30,285	586	1,558	6,547
Maine.....	4	4	275	751	257	566	691	1,574	5,384	6,959	(D)	137	(D)
Massachusetts.....	54	21	1,124	3,557	929	2,004	2,477	6,441	12,670	19,112	290	1,020	4,512
Rhode Island.....	13	2	181	719	140	312	438	1,326	870	2,197	65	(D)	(D)
Middle Atlantic.....	54	23	1,542	5,176	1,304	2,705	3,799	8,654	13,975	22,629	222	1,600	7,023
New York.....	33	14	1,078	3,549	934	1,981	2,790	6,693	9,325	16,019	180	1,082	4,914
East North Central.....	21	9	638	1,957	543	1,112	1,597	3,015	5,133	8,148	118	540	2,279
Ohio.....	9	6	426	1,335	370	782	1,108	1,989	3,493	5,483	108	308	1,115
Illinois.....	4	2	103	363	79	158	261	658	1,656	1,656	8	136	917
West North Central.....	8	4	426	1,056	370	774	928	1,796	3,525	5,321	159	402	1,419
Minnesota.....	4	3	176	514	156	319	370	838	1,710	2,549	(D)	220	(D)
Missouri.....	4	1	250	542	214	454	458	957	1,814	2,772	(D)	182	(D)
South and West.....	39	13	1,426	3,853	1,184	2,403	2,519	7,033	11,605	18,638	426	1,705	5,344
Maryland.....	7	1	318	1,013	218	445	452	1,259	730	1,989	34	(D)	(D)
North Carolina.....	8	1	138	351	117	231	249	232	1,331	1,563	(D)	227	(D)
South Carolina.....	5	2	127	280	104	196	194	462	284	747	50	83	(D)
Georgia.....	4	3	325	914	282	605	615	1,504	3,131	4,636	209	833	(D)

See footnotes at end of table.

## MANUFACTURES—INDUSTRY STATISTICS

Table 2.—GENERAL STATISTICS BY REGIONS AND STATES: 1954 AND 1947  
(For explanation of column captions see Introduction)

Industry, region, and State <sup>1</sup>	1954										1947		
	Establishments, number		All employees		Production workers			Value added by manufacture	Cost of materials, etc.	Value of shipments	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
	Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)		
Coated fabric, except rubberized (S.I.C. 2295), total.....	106	51	8,547	41,699	6,576	14,711	27,386	80,294	132,016	212,310	4,117	8,588	52,491
New England.....	37	20	1,804	7,788	1,378	3,020	5,060	13,130	24,817	37,948	492	2,583	13,612
Massachusetts.....	26	14	1,285	5,671	972	2,154	3,613	9,740	17,993	27,733	312	1,390	8,904
Rhode Island.....	4	3	341	1,342	272	578	991	2,074	5,164	7,239	90	394	1,858
Middle Atlantic.....	46	18	3,585	17,124	2,772	6,109	11,277	29,715	46,667	76,382	1,589	3,380	17,195
New Jersey.....	19	10	1,933	9,376	1,543	3,569	6,336	15,397	26,363	41,761	724	1,757	9,419
North Central.....	12	7	2,832	15,350	2,151	4,925	9,980	33,737	54,018	87,756	1,861	2,529	21,081
Ohio.....	5	3	1,595	8,797	1,168	2,630	5,647	21,513	30,729	52,242	989	1,280	(D)
South and West.....	11	6	324	1,436	273	655	1,068	3,711	6,512	10,223	173	96	603
Cordage and twine (S.I.C. 2298), total.....	137	75	12,327	37,374	10,709	20,568	28,128	77,298	82,649	159,948	2,614	16,366	73,795
New England.....	29	17	2,008	6,687	1,691	3,230	4,815	16,349	14,773	31,123	452	(D)	(D)
Massachusetts.....	13	8	1,473	5,083	1,216	2,294	3,615	13,351	11,159	24,510	(D)	(D)	(D)
Connecticut.....	9	6	237	678	208	411	499	1,160	2,357	3,517	40	338	(D)
Middle Atlantic.....	37	18	3,424	11,950	2,805	5,617	8,117	22,153	19,051	41,204	522	(D)	(D)
New York.....	21	11	2,352	8,212	1,928	3,965	5,784	15,186	12,821	28,007	433	2,994	12,993
New Jersey.....	9	3	583	2,316	449	862	1,326	4,518	4,302	8,820	65	(D)	(D)
Pennsylvania.....	7	4	488	1,421	428	789	1,006	2,448	1,928	4,377	24	1,556	(D)
East North Central.....	17	9	936	3,174	804	1,558	2,386	5,335	6,892	12,228	258	(D)	(D)
Illinois.....	7	4	355	1,103	299	573	821	1,532	2,760	4,292	15	(D)	(D)
Michigan.....	5	2	347	1,442	282	555	993	2,650	2,573	5,223	(D)	(D)	(D)
West North Central.....	4	2	344	990	287	544	713	1,777	1,887	3,664	(D)	(D)	(D)
South Atlantic.....	15	11	2,579	6,074	2,389	4,518	5,348	10,514	19,098	29,613	542	6,044	5,534
North Carolina.....	8	6	1,043	2,589	963	1,849	2,218	5,503	8,006	13,510	201		
East South Central.....	10	6	1,678	4,130	1,584	2,882	3,609	9,763	8,815	18,579	351		
West South Central.....	12	5	860	2,581	745	1,455	1,997	7,754	8,393	16,148	171		
Louisiana.....	5	4	657	2,056	551	1,057	1,553	7,080	7,232	14,312	171		
Texas.....	7	1	203	524	193	397	443	674	1,160	1,835	...		
Pacific.....	13	7	496	1,786	403	760	1,140	3,650	3,737	7,387	(D)	6,044	5,534
California.....	8	5	388	1,473	311	580	903	3,062	3,154	6,216	(D)		
Textile goods, nec. (S.I.C. 2299), total.....	108	54	8,975	29,106	7,736	14,888	21,116	54,115	67,488	121,603	2,000	7,583	32,730
Middle Atlantic.....	60	27	4,743	15,350	4,261	8,172	11,738	26,797	41,864	68,662	752	(D)	(D)
New York.....	28	6	444	1,693	369	731	1,065	3,290	7,652	10,943	52	190	(D)
New Jersey.....	12	9	1,611	5,810	1,378	2,691	4,253	10,479	15,543	26,023	293	(D)	(D)
Pennsylvania.....	20	12	2,688	7,847	2,513	4,749	6,418	13,026	18,669	31,696	406	(D)	(D)
All Other Divisions.....	48	27	4,232	13,756	3,475	6,716	9,378	27,318	25,624	52,941	1,248	(D)	(D)
Massachusetts.....	8	5	1,204	4,204	1,034	2,134	3,270	8,412	6,064	14,476	625	(D)	(D)
Rhode Island.....	8	4	232	635	210	402	530	1,087	1,409	2,496	(D)	(D)	(D)
North Carolina.....	5	4	262	534	247	415	423	948	1,612	2,560	10	(D)	(D)
Georgia.....	5	4	319	658	298	584	562	1,278	1,556	2,835	39	(D)	(D)

Note: Detailed figures may not add to the totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>General statistics for some producing States are not shown separately in the table (See INTRODUCTION "Confidentiality of Data for Individual Companies"). Such States are shown below with the number of establishments in each State for 1954 and, in parentheses, the number of employees or the employment-size range for that State for 1954:

S.I.C. 2291, Felt Goods, nec.: New England—Maine, 1 (1-19); Massachusetts, 12 (500-999); Rhode Island, 3 (20-99); Connecticut, 1 (100-249);

Middle Atlantic—New York, 15 (500-999); New Jersey, 6 (250-499); North Central—Ohio, 3 (20-99); Michigan, 1 (250-499); Kansas, 2 (1-19); South

Atlantic—Virginia, 1 (100-249); North Carolina, 1 (500-999); South Carolina, 1 (1-19); Georgia, 1 (20-99); Florida, 1 (1-19).

S.I.C. 2292, Lace Goods: All Other Divisions—Maine, 1 (20-99); Massachusetts, 2 (20-99); Ohio, 1 (100-249); Tennessee, 1 (20-99); California, 1

(20-99).

S.I.C. 2293, Padding and Upholstery Filling: New England—Vermont, 1 (20-99); Rhode Island, 2 (100-249); Connecticut, 4 (20-99); East North Central—

Indiana, 4 (250-499); Wisconsin, 5 (100-249); West North Central—Minnesota, 3 (1-19); Missouri, 5 (500-999); South Atlantic—Delaware, 1 (1-19);

Maryland, 3 (20-99); South Carolina, 1 (100-249); Florida, 5 (20-99); West South Central—Arkansas, 1 (20-99); Louisiana, 6 (20-99); Texas, 10

(500-999); Pacific—Washington, 2 (1-19); Oregon, 1 (1-19).

S.I.C. 2294, Processed Textile Waste: New England—New Hampshire, 2 (20-99); Vermont, 1 (1-19); Connecticut, 7 (20-99); Middle Atlantic—New Jersey, 7

(100-249); Pennsylvania, 14 (250-499); East North Central—Indiana, 2 (1-19); Michigan, 2 (1-19); Wisconsin, 4 (20-99); South and West—Delaware, 2

(20-99); Virginia, 1 (1-19); Florida, 1 (1-19); Tennessee, 2 (20-99); Alabama, 1 (100-249); Louisiana, 2 (20-99); Oklahoma, 1 (20-99); Texas, 1

(20-99); Colorado, 1 (20-99); California, 3 (20-99).

S.I.C. 2295, Coated Fabric except Rubberized: New England—Maine, 2 (20-99); Connecticut, 5 (20-99); Middle Atlantic—New York, 25 (1,000-2,499);

Pennsylvania, 2 (1-19); North Central—Illinois, 3 (500-999); Michigan, 1 (100-249); Wisconsin, 2 (100-249); Missouri, 1 (20-99); South and West—

South Carolina, 2 (20-99); Florida, 1 (1-19); Kentucky, 1 (20-99); Tennessee, 1 (100-249); Texas, 1 (1-19); California, 5 (100-249).

S.I.C. 2298, Cordage and Twine: New England—Maine, 2 (1-19); New Hampshire, 1 (20-99); Rhode Island, 4 (100-249); East North Central—Ohio, 3

(100-249); Wisconsin, 2 (20-99); West North Central—Iowa, 1 (20-99); Missouri, 3 (250-499); South Atlantic—Maryland, 2 (250-499); Virginia, 1

(20-99); Georgia, 4 (1,102); East South Central—Kentucky, 2 (100-249); Tennessee, 2 (250-499); Alabama, 4 (1,246); Mississippi, 2 (1-19);

Pacific—Washington, 4 (20-99); Oregon, 1 (20-99).

S.I.C. 2299, Textile Goods, nec.: All Other Divisions—Maine, 1 (1-19); Connecticut, 1 (20-99); Indiana, 1 (1-19); Illinois, 4 (500-999); Minnesota, 2

(100-249); Delaware, 1 (250-499); Maryland, 1 (1-19); South Carolina, 2 (100-249); Alabama, 2 (100-249); Mississippi, 1 (100-249); Arkansas, 1

(100-249); Louisiana, 1 (1-19); Texas, 1 (1-19); California, 2 (20-99).

<sup>2</sup>Includes South and West.

## MISCELLANEOUS TEXTILE GOODS

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Table 3.—DETAILED STATISTICS FOR THE UNITED STATES: 1954  
(For explanation of line captions see Introduction)

Item	Felt goods (S.I.C. 2291) all estab- lishments	Lace goods (S.I.C. 2292) all estab- lishments	Padding and upholstery filling (S.I.C. 2293) all estab- lishments	Processed textile waste (S.I.C. 2294) all estab- lishments
Primary product specialization ratio <sup>1</sup> .....	90	99	91	96
Coverage ratio <sup>2</sup> .....	92	94	90	93
Number of establishments, total.....	72	138	200	203
With 1-19 employees.....	39	76	118	126
With 20-99 employees.....	12	39	61	66
With 100 employees and over.....	21	23	21	11
All employees:				
Number (average for year).....	5,987	7,442	9,111	5,768
Payroll.....\$1,000..	23,376	26,117	33,031	17,570
Production workers:				
Number (average for year).....	5,182	6,568	7,777	4,856
Man-hours.....1,000..	10,767	12,521	16,031	10,142
Wages.....\$1,000..	18,083	20,492	24,489	12,717
Value added by manufacture.....do...	41,656	37,734	61,499	30,723
Cost of materials, etc.....do...	51,275	22,061	87,329	54,299
Value of shipments.....do...	92,931	59,795	148,828	85,023
Value added by resales.....do...	545	258	1,009	1,435
Cost of products bought and resold.....do...	8,227	1,714	5,899	11,701
Sales of products bought and resold.....do...	8,772	1,972	6,909	13,136
Total inventories, beginning of year.....do...	13,682	15,544	19,939	10,808
Total inventories, end of year.....do...	12,830	13,907	19,079	10,677
Capital expenditures, new.....do...	1,623	1,941	3,485	1,513
Total employment, by month:				
January.....	(NA)	(NA)	(NA)	(NA)
February.....	(NA)	(NA)	(NA)	(NA)
March.....	6,015	7,493	9,057	5,687
April.....	(NA)	(NA)	(NA)	(NA)
May.....	5,786	7,099	8,882	5,742
June.....	(NA)	(NA)	(NA)	(NA)
July.....	(NA)	(NA)	(NA)	(NA)
August.....	5,924	7,371	8,871	5,835
September.....	(NA)	(NA)	(NA)	(NA)
October.....	(NA)	(NA)	(NA)	(NA)
November.....	6,222	7,805	9,633	5,809
December.....	(NA)	(NA)	(NA)	(NA)
Cost of materials, fuel, electricity and contract work, total.....\$1,000..	51,275	22,061	87,329	54,299
Materials, parts, containers, and supplies consumed.....do...	49,559	19,669	85,050	52,555
Fuels consumed, total.....do...	867	536	878	439
Bituminous coal and anthracite:				
Quantity.....1,000 short tons..	27	15	38	22
Value.....\$1,000..	208	164	356	202
Fuel oil:				
Quantity.....1,000 barrels..	197	103	114	58
Value.....\$1,000..	547	315	345	181
Gas:				
Quantity.....million cubic feet..	287	42	237	83
Value.....\$1,000..	101	39	85	26
Other fuels:				
Value.....do...	11	18	92	30
Electric energy:				
Purchased:				
Quantity.....million kwh..	57	17	73	33
Cost.....\$1,000..	826	320	1,141	550
Generated.....million kwh..	(3)	(3)	(3)	(3)
Cost of contract work.....\$1,000..	23	1,536	260	755
Manufacturers' inventories:				
Beginning of year, total.....do...	13,682	15,544	19,939	10,808
Finished products.....do...	4,047	5,539	4,030	4,604
Work-in-process.....do...	1,363	4,511	2,087	2,167
Materials, supplies, fuel, etc.....do...	8,271	5,493	13,821	4,037
End of year, total.....do...	12,830	13,907	19,079	10,677
Finished products.....do...	4,345	5,183	4,151	4,508
Work-in-process.....do...	1,474	4,446	2,091	2,290
Materials, supplies, fuel, etc.....do...	7,010	4,277	12,836	3,878
Expenditures for plant and equipment, total.....do...	1,720	2,103	3,744	1,695
Capital expenditures, new.....do...	1,623	1,941	3,485	1,513
New structures and additions to plant.....do...	(4)	(4)	935	549
New machinery and equipment.....do...	1,380	1,764	2,549	963
Expenditures for used plant and equipment.....do...	(4)	(4)	(4)	(4)
Horsepower rating of power equipment at end of 1954:				
Horsepower of prime movers and electric motors				
driven by purchased energy, total.....1,000 hp..	38	16	45	35
Engines, etc., driving electric generators.....do...	1	4	2	(3)
Engines, etc., not driving electric generators.....do...	1	1	(5)	2
Electric motors driven by purchased energy.....do...	36	11	43	33
Electric motors driven by energy generated at the establishment.....do...	1	1	2	(5)

See footnotes at end of table.



## MANUFACTURES—INDUSTRY STATISTICS

Table 3.—DETAILED STATISTICS FOR THE UNITED STATES: 1954—Continued

Item	Coated fabrics, except rubberized (S.I.C. 2295)		Cordage and twine (S.I.C. 2298) all establishments	Textile goods, n.e.c. (Census Code 2299)	
	All establishments	Establishments with 90% or more primary product specialization		All establishments	Establishments with 90% or more primary product specialization
Primary product specialization ratio <sup>1</sup> .....	80	xxx	90	88	xxx
Coverage ratio <sup>2</sup> .....	82	xxx	89	81	xxx
Number of establishments, total.....	106	99	137	108	81
With 1-19 employees.....	55	34	62	54	47
With 20-99 employees.....	30	13	41	28	20
With 100 employees and over.....	21	12	34	26	14
All employees:					
Number (average for year).....	8,547	4,218	12,327	8,975	4,233
Payroll.....\$1,000..	41,699	20,854	37,374	29,106	13,024
Production workers:					
Number (average for year).....	6,576	3,270	10,709	7,736	3,739
Man-hours.....\$1,000..	14,711	7,357	20,568	14,888	7,014
Wages.....\$1,000..	27,386	13,840	28,128	21,116	9,349
Value added by manufacture.....do...	80,294	41,330	77,298	54,115	27,734
Cost of materials, etc.....do...	132,016	74,430	82,649	67,488	37,655
Value of shipment.....do...	212,310	115,761	159,948	121,603	65,390
Value added by resales.....do...	142	107	185	785	128
Cost of products bought and resold.....do...	1,175	833	2,569	3,584	1,603
Sales of products bought and resold.....do...	1,317	941	2,754	4,370	1,732
Total inventories, beginning of year.....do...	31,890	18,340	46,687	26,673	8,309
Total inventories, end of year.....do...	31,348	18,136	40,578	27,697	9,775
Capital expenditures, new.....do...	4,117	2,154	2,614	2,000	1,141
Total employment, by month:					
January.....	8,706	(NA)	(NA)	(NA)	(NA)
February.....	8,636	(NA)	(NA)	(NA)	(NA)
March.....	8,600	4,239	12,605	8,654	3,901
April.....	8,581	(NA)	(NA)	(NA)	(NA)
May.....	8,522	(NA)	12,247	8,770	4,222
June.....	8,449	4,216	(NA)	(NA)	(NA)
July.....	8,343	(NA)	(NA)	(NA)	(NA)
August.....	8,411	4,175	12,005	9,142	4,375
September.....	8,429	(NA)	(NA)	(NA)	(NA)
October.....	8,513	(NA)	(NA)	(NA)	(NA)
November.....	8,656	4,242	12,450	9,335	4,431
December.....	8,718	(NA)	(NA)	(NA)	(NA)
Cost of materials, fuel, electricity and contract work, total.....\$1,000..	132,016	74,430	82,649	67,488	37,655
Materials, parts, containers, and supplies consumed.....do...	127,935	72,190	80,313	65,190	36,037
Fuels consumed, total.....do...	1,432	710	469	301	209
Bituminous coal and anthracite:					
Quantity.....1,000 short tons..	57	(NA)	14	11	(NA)
Value.....\$1,000..	517	(NA)	149	116	(NA)
Fuel oil:					
Quantity.....1,000 barrels..	243	(NA)	79	33	(NA)
Value.....\$1,000..	687	(NA)	253	111	(NA)
Gas:					
Quantity.....million cubic feet..	124	(NA)	153	72	(NA)
Value.....\$1,000..	226	(NA)	48	25	(NA)
Other fuels:					
Value.....do...	1	(NA)	19	4	(NA)
Electric energy:					
Purchased:					
Quantity.....million kwh..	66	38	107	58	27
Cost.....\$1,000..	1,062	581	1,387	853	427
Generated.....million kwh..	8	1	1	27	...
Sold:					
Quantity.....do...	1	1	...	11	...
Value.....\$1,000..	13	13	...	47	...
Cost of contract work.....do...	1,587	949	480	1,144	982
Manufactures' inventories:					
Beginning of year, total.....do...	31,890	18,340	46,687	26,673	8,309
Finished products.....do...	10,036	5,793	20,502	10,367	3,533
Work-in-process.....do...	6,159	3,811	6,654	4,076	1,299
Materials, supplies, fuel, etc.....do...	15,693	8,735	19,530	12,230	3,476
End of year, total.....do...	31,348	18,136	40,578	27,697	9,775
Finished products.....do...	9,493	5,394	16,928	11,004	4,079
Work-in-process.....do...	6,134	3,542	6,256	4,507	1,532
Materials, supplies, fuel, etc.....do...	15,720	9,199	17,393	12,186	4,163
Expenditures for plant and equipment, total.....do...	4,541	2,825	2,223	1,215	...
Capital expenditures, new.....do...	4,117	2,154	2,614	2,000	1,141
New structures and additions to plant.....do...	969	(4)	589	(4)	(4)
New machinery and equipment.....do...	3,148	1,678	2,024	1,760	1,033
Expenditures for used plant and equipment.....do...	(4)	(4)	(4)	(4)	(4)
Horsepower rating of power equipment at end of 1954:					
Horsepower of prime movers and electric motors driven by purchased energy, total.....1,000 hp..	112	100	68	47	15
Engines, etc., driving electric generators.....do...	2	1	3	18	2
Engines, etc., not driving electric generators.....do...	5	2	(5)	(5)	(5)
Electric motors driven by purchased energy.....do...	115	96	65	29	13
Electric motors driven by energy generated at the establishment.....do...	1	1	1	8	...

Note: Detailed figures may not add to the totals because of independent rounding. xxx Not applicable. NA Not available. <sup>1</sup>The specialization ratio compares the given industry's shipments of its primary products to its total shipments of all products. (The primary products are listed in Tables 5B and 6A; the first 4-digits of the product code represent the industry code to which the product is primary.) Columns containing totals for establishments with 90% or more primary product specialization are shown only for those industries having a primary product specialization of less than 90%. <sup>2</sup>The coverage ratio measures the extent to which the total shipments of products primary to the given industry are shipped by establishments classified in that industry. <sup>3</sup>Less than 500 thousand kwh. <sup>4</sup>Less than \$500 thousand. <sup>5</sup>Less than 500 hp.

Table 4.—SELECTED STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR THE UNITED STATES: 1954

(Value figures in thousands of dollars. For explanation of line captions see Introduction. Data which cannot be shown without disclosing information for individual companies have been combined with figures for other size classes. A (D) appears in the column where the figure has been omitted and the combined figure is underlined and shown in the size-class to the left)

Ind. code	Industry and item	Total, all establishments	Establishments with an average of—									
			1-4 em- ployees	5-9 em- ployees	10-19 em- ployees	20-49 em- ployees	50-99 em- ployees	100-249 employees	250-499 employees	500-999 employees	1,000-2,499 employees	2,500 employees and over
2291	Felt goods, n.e.c.:											
	Number of establishments..	72	16	11	12	9	3	12	8	1	...	...
	Number of employees.....	5,987	40	75	178	290	213	2,076	<u>3,113</u>	(D)	...	...
	Value added by manufacture	41,656	309	433	994	2,309	1,166	15,612	<u>20,830</u>	(D)	...	...
2292	Lace goods:											
	Number of establishments..	138	27	25	24	26	13	17	5	1	...	...
	Number of employees.....	7,442	74	179	357	915	965	2,629	<u>2,320</u>	(D)	...	...
	Value added by manufacture	37,734	444	1,048	1,864	4,696	5,754	12,562	<u>11,363</u>	(D)	...	...
2293	Padding and upholstery filling:											
	Number of establishments..	200	42	34	42	41	20	13	7	1	...	...
	Number of employees.....	9,111	115	241	620	1,247	1,377	2,239	<u>3,268</u>	(D)	...	...
	Value added by manufacture	61,499	831	1,739	4,725	8,362	8,908	13,873	<u>23,059</u>	(D)	...	...
2294	Processed textile waste:											
	Number of establishments..	203	50	36	40	45	21	10	1	...	...	...
	Number of employees.....	5,768	138	261	554	1,460	1,488	<u>1,865</u>	(D)	...	...	...
	Value added by manufacture	30,723	986	1,442	3,014	8,199	7,554	<u>9,527</u>	(D)	...	...	...
2295	Coated fabric, except rubberized:											
	Number of establishments..	106	15	16	24	19	11	15	2	3	1	...
	Number of employees.....	8,547	34	112	338	673	740	2,447	<u>4,200</u>	(D)	(D)	...
	Value added by manufacture	80,294	230	812	2,494	5,365	5,489	20,386	<u>45,515</u>	(D)	(D)	...
2298	Cordage and twine:											
	Number of establishments..	137	34	7	21	22	19	21	8	5	...	...
	Number of employees.....	12,327	76	47	303	755	1,390	3,203	2,395	4,155	...	...
	Value added by manufacture	77,298	439	320	1,560	3,856	8,303	18,589	15,815	28,413	...	...
2299	Textile goods, n.e.c.:											
	Number of establishments..	108	31	5	18	13	15	15	9	2	...	...
	Number of employees.....	8,975	77	34	259	498	932	2,362	<u>4,811</u>	(D)	...	...
	Value added by manufacture	54,115	516	137	1,976	3,024	5,995	17,081	<u>25,384</u>	(D)	...	...

Note: Detailed figure may not add to totals because of independent rounding.

## MANUFACTURES--INDUSTRY STATISTICS

Table 5A.—INDUSTRY-PRODUCT ANALYSIS—SUMMARY OF INDUSTRY AND PRIMARY PRODUCT SHIPMENTS, SPECIALIZATION RATIOS AND COVERAGE RATIOS  
FOR THE UNITED STATES: 1954 AND 1947

Industry code	Industry and census year	Value of shipments					Value of primary products shipped			
		Total	Primary products	Secondary products	Miscel- laneous receipts	Primary product speciali- zation ratio <sup>1</sup>	Total (made in all industries)	Made in this industry	Made in other industries	Coverage ratio <sup>2</sup>
		(\$1,000) (A)	(\$1,000) (B)	(\$1,000) (C)	(\$1,000) (D)	Col. B Col. A+C (Percent) (E)	(\$1,000) (F)	(\$1,000) (G)	(\$1,000) (H)	Col. G Col. F (Percent) (I)
2291	Felt goods, n.e.c.....1954...	92,931	82,303	9,036	1,592	90	89,094	82,303	6,791	92
	1947...	59,764	57,020	2,744	...	95	58,875	57,020	1,855	97
2292	Lace goods.....1954...	59,795	51,366	631	7,798	99	54,601	51,366	3,235	94
	1947...	68,663	62,353	3,979	2,331	94	64,299	62,353	1,946	97
2293	Padding and upholstery filling.....1954...	143,728	135,359	13,056	413	91	149,417	135,359	14,058	90
	1947...	110,352	104,507	4,732	1,113	96	112,897	104,507	8,390	92
2294	Processed textile waste.....1954...	85,023	71,532	3,285	10,206	96	76,629	71,532	5,097	93
	1947...	57,255	52,025	3,554	1,676	94	55,296	52,025	3,271	94
2295	Coated fabric, except rubberized.....1954...	212,310	175,422	27,636	9,252	96	215,204	175,422	39,782	82
	1947...	162,597	132,421	24,723	5,453	84	162,350	132,421	29,929	82
2298	Cordage and twine.....1954...	159,948	142,554	15,613	1,781	90	159,853	142,554	17,299	89
	1947...	170,897	147,971	22,048	878	87	169,373	147,971	21,402	87
2296	Textile goods, n.e.c.....1954...	121,603	104,340	13,984	3,279	88	128,548	104,340	24,208	81
	1947...	65,109	55,159	8,469	1,481	87	72,829	55,159	17,670	76

<sup>1</sup>The specialization ratio compares the given industry's shipments of its primary products to its total shipments of all products. (The primary products are listed in Tables 5B and 6A; the first 4-digits of the product code represent the industry code to which the product is primary.)

<sup>2</sup>The coverage ratio measures the extent to which the total shipments of products primary to the given industry are shipped by establishments classified in that industry.



Table 5B.—INDUSTRY-PRODUCT ANALYSIS—SHIPMENTS BY PRODUCT CLASS AND INDUSTRY, FOR THE UNITED STATES: 1954

(In thousands of dollars. The first column shows the total value of shipments of the specified industry divided among: (a) products classified in the industry (primary products), (b) products classified in other industries (secondary products) and (c) miscellaneous receipts. The value of shipments of the primary products of the specified industry reported by establishments not classified in that industry is shown under the caption "Other Industries." Industries accounting for significant amounts of the primary products listed are shown in separate columns provided that the figures for individual companies are not thereby disclosed. The last column shows the total value of shipments of the primary products of the industry by all manufacturing industries)

Prod. class code	Felt goods, n.e.c., industry	Felt goods, n.e.c. (S.I.C. 2291)	Other industries	All industries	Prod. class code	Coated fabric, except rubberized industry	Coated fabric, except rubberized (S.I.C. 2295)	Other industries	All industries
	Total industry shipments.....	92,931	xxx	xxx		Total industry shipments.....	212,310	xxx	xxx
22910	Felt goods, except woven felts and hats.....	82,303	6,791	29,094		Primary products.....	175,422	39,782	215,204
	Secondary products.....	9,036	xxx	xxx	22951	Pyroxylin-coated fabrics.....	44,069	4,981	49,050
22930	Paddings and upholstery filling... Other secondary products.....	2,739 6,297	xxx xxx	xxx xxx	22952	Resin-coated fabrics.....	89,103	26,763	115,866
	Miscellaneous receipts.....	1,592	xxx	xxx	22953	Other impregnated and coated fabrics.....	42,250	8,038	50,288
	Contract and commission work..... Other.....	1,512 (1)	xxx xxx	xxx xxx		Secondary products.....	27,636	xxx	xxx
Prod. class code	Lace goods industry	Lace goods (S.I.C. 2292)	Other industries	All industries	26415	Coated and processed paper.....	3,632	xxx	xxx
	Total industry shipments.....	59,795	xxx	xxx	28234	Vinyl and polyethylene unsupported film and sheets.....	5,077	xxx	xxx
22920	Lace goods.....	51,366	3,235	54,601	30995	Other rubber products.....	2,718	xxx	xxx
	Secondary products.....	631	xxx	xxx		Other secondary products.....	16,209	xxx	xxx
	Miscellaneous receipts.....	7,798	xxx	xxx		Miscellaneous receipts.....	9,252	xxx	xxx
	Contract and commission work..... Other.....	7,181 617	xxx xxx	xxx xxx		Contract and commission work..... Other.....	7,394 1,858	xxx xxx	xxx xxx
Prod. class code	Padding and upholstery filling industry	Padding and upholstery filling (S.I.C. 2293)	Other industries	All industries	Prod. class code	Cordage and twine industry	Cordage and twine (S.I.C. 2298)	Other industries	All industries
	Total industry shipments.....	148,822	xxx	xxx		Total industry shipments.....	159,948	xxx	xxx
22930	Paddings and upholstery filling.....	135,359	14,058	149,417		Primary products.....	142,554	17,299	159,853
	Secondary products.....	13,056	xxx	xxx	22981	Hard fiber cordage and twine.....	63,858	901	64,759
	Miscellaneous receipts.....	413	xxx	xxx	22982	Soft fiber cordage and twine, except cotton.....	29,482	13,004	42,486
Prod. class code	Processed textile waste industry	Processed textile waste (S.I.C. 2294)	Other industries	All industries	22983	Cotton cordage and twine.....	49,214	3,394	52,608
	Total industry shipments.....	85,023	xxx	xxx		Secondary products.....	15,613	xxx	xxx
22940	Processed textile waste and recovered fibers.....	71,532	5,097	76,629	22242	Yarns spun on cotton system.....	3,966	xxx	xxx
	Secondary products.....	3,285	xxx	xxx	22940	Processed textile waste and recovered fibers.....	2,246	xxx	xxx
	Miscellaneous receipts.....	10,206	xxx	xxx		Other secondary products.....	9,401	xxx	xxx
	Contract and commission work					Miscellaneous receipts.....	1,781	xxx	xxx
	Fibers recovered from clips and rags.....	2,863	xxx	xxx	Prod. class code	Textile goods, n.e.c., industry	Textile goods, n.e.c. (Census 2299)	Other industries	All industries
	Other, including commission work not specified by kind... Other.....	6,144 1,199	xxx xxx	xxx xxx		Total industry shipments.....	121,603	xxx	xxx
						Primary products.....	104,340	24,208	128,548
					22971	Jute goods, except felt.....	30,452	7,276	37,728
					22991	Linen goods.....	7,906	767	8,673
					22992	Textile goods, n.e.c.....	65,982	16,165	82,147
						Secondary products.....	13,984	xxx	xxx
					22982	Soft fiber cordage and twine, except cotton.....	6,153	xxx	xxx
						Other secondary products.....	7,831	xxx	xxx
						Miscellaneous receipts.....	3,279	xxx	xxx
						Contract and commission work..... Other.....	2,471 808	xxx xxx	xxx xxx

xxx Not applicable.

<sup>1</sup>Less than \$100 thousand.<sup>2</sup>Includes \$8,304 thousand shipped by Industry 2515, Mattresses and Bedsprings.<sup>3</sup>Includes \$6,153 thousand shipped by Industry 2299, Textile Goods, N.E.C.

## MANUFACTURES--INDUSTRY STATISTICS

Table 6A.--QUANTITY AND VALUE OF PRODUCTS SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, FOR THE UNITED STATES: 1954 AND 1947

Product code	Product	Unit of measure	Total shipments including interplant transfers			
			1954		1947	
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
2291---	Felt goods, except woven felts and hats, total.....	Thousand pounds...	280,674	89,094	(NA)	58,875
	Pressed wool felts:					
2291011	Industrial felts (1/8 inch thick and over).....	do.....	12,336	19,121	12,004	8,741
2291013	Needle trade felts (under 1/8 inch thick).....	do.....			10,792	12,041
2291015	Sheets.....	do.....	8,152	16,212	1,124	1,645
2291017	Wheels.....	do.....			245	627
	Punched or needled felt (hair and jute):					
2291051	Carpet and rug linings and cushions.....	do.....	157,654	34,684	(1)	19,008
2291053	Automotive felts.....	do.....	64,382	10,962	9,682	2,625
2291055	Insulation and accoustic felts.....	do.....	4,267	1,153	19,424	4,469
2291057	Packing felts.....	do.....	1,531	349	(NA)	(NA)
2291059	All other felts, except woven felts and hats.....	do.....	31,652	6,613		
2291098	Felt goods, except woven felts and hats, kind not specified.....	do.....	...	...	43,843	9,719
2292---	Lace goods, total.....		xxx	54,601	xxx	64,299
	Levers lace machine products:					
2292011	All-overs.....	Thousand sq. yds...	3,811	10,750	3,556	4,602
2292015	Edgings, insertions, gallon and flouncings.....	do.....	(NA)	25,748	14,658	21,321
2292019	All other levers products.....	do.....	(NA)	944	8,455	3,238
2292031	Barmen laces.....	Thousand lin. yds..	(NA)	(2)	41,837	1,513
	Nottingham lace machine products:					
2292051	Curtains.....	Thousand pairs.....	(NA)	3,491	10,084	20,180
2292059	All other Nottingham lace machine products.....	do.....	xxx	6,174	xxx	9,974
2292071	Bobbinets.....	Thousand sq. yds...	(NA)	(2)	1,419	1,417
2292098	All other laces and nets.....	do.....	xxx	27,494	xxx	2,054
2293---	Pads, upholstery filling, batting and wadding, total.....	Thousand pounds....	(NA)	149,417	521,819	112,897
2293011	Automotive pads (sisal, etc.).....	do.....	158,237	41,401		
2293019	All other pads of hard fiber.....	do.....	(NA)	8,915	225,506	46,087
	Batting, wadding, and mattress felts:					
2293031	Made from raw cotton.....	do.....	(NA)	6,505	39,491	9,189
2293033	Made from linters.....	do.....	(NA)	1,386	5,516	1,509
2293035	Made from cotton waste.....	do.....	65,516	16,742	70,358	17,896
2293037	Made from linters and waste mixed.....	do.....	183,192	43,513	148,167	28,080
2293039	Other.....	do.....	38,349	7,687	xxx	xxx
	Upholstery filling:					
2292051	Curled hair.....	do.....	24,748	14,880	16,797	7,719
2293059	Other:					
	Quantity reported.....	do.....	36,901	6,763	15,984	2,417
	Quantity not reported.....	do.....	xxx	1,625	xxx	xxx
2294---	Recovered fibers, processed mill waste, and related products, total.....		xxx	76,629	xxx	55,296
	Fiber recovered from:					
2294011	New wool clips and rags (reprocessed).....	Thousand pounds....	21,406	11,889	12,261	4,384
2294013	Old wool rags (reused).....	do.....	8,081	1,792	12,244	3,011
2294015	Rayon and/or acetate clips and rags.....	do.....	5,055	1,289	11,461	2,232
2294019	Other clips and rags.....	do.....	29,098	6,104	30,129	4,534
	Processed mill waste <sup>3</sup> (excluding fiber recovered from clips and rags):					
2294021	Cotton.....	do.....	132,514	15,387	162,211	15,258
2294023	Wool.....	do.....	16,165	10,364	17,567	7,061
2294025	Rayon and/or acetate.....	do.....	13,819	3,457	6,729	1,655
2294029	Other.....	do.....	20,378	4,233	55,612	5,641
2294031	Rayon and/or acetate flock.....	do.....	3,980	1,789	2,451	1,514
2294039	Other flock.....	do.....	(NA)	1,836	5,979	896
2294051	Other.....	do.....	25,762	4,603	12,305	1,794
2294098	All other processed waste and recovered fibers, including products not specified by kind.....	do.....	xxx	13,886	xxx	7,316
2295---	Coated fabrics, except rubberized, total.....		xxx	215,204	xxx	162,350
22951	Pyroxylin-coated fabrics.....	Thousand lin. yds..	55,143	49,050	101,184	62,495
	On a textile base (excluding shade cloth):					
2295111	Light cotton fabrics (print cloths, sheetings, etc.).....	do.....	26,498	15,636	62,991	29,080
2295115	Heavy cotton fabrics, (ducks, drills, twills, sateen, etc.).....	do.....	16,476	13,519	30,923	29,421
2295119	Fabrics other than cotton.....	do.....				
2295131	Non-fabric materials (excluding paper) <sup>4</sup> .....	do.....	42,109	19,895	7,270	3,994
2295171	Shade cloth.....	do.....				

See footnotes at end of table.

## MISCELLANEOUS TEXTILE GOODS

22F-13

Table 6A.--QUANTITY AND VALUE OF PRODUCTS SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, FOR THE UNITED STATES: 1954 AND 1947--Continued

Product code	Product	Unit of measure	Total shipments including interplant transfers			
			1954		1947	
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
2295---	Coated fabrics, except rubberized--Continued					
22952	Resin-coated fabrics.....		91,756	115,866	(NA)	3,907
2295211	Light-weight fabrics (finished weight 10 ounces and under per square yard).....	Thousand lin. yds..	13,520	19,548	15,626	4,141
2295251	Heavy-weight fabrics (finished weight over 10 ounces per square yard).....	..do.....	1,821	96,318	28,998	27,760
22953	Other impregnated and coated fabrics.....		xxx	50,288	xxx	62,948
2295311	Varnished insulating fabrics.....		xxx	9,218	xxx	(?)
	Other coated fabrics:					
2295331	Oilcloth.....	Thousand sq. yds..	(6)	(6)	190,787	24,465
2295335	Bookcloth, starch filled.....	..do.....	1,944	3,387	10,894	3,952
2295398	Other impregnated and coated fabrics (wall covering, imitation suede, clay and latex coated, tape fabrics, etc.).....		xxx	637,033	xxx	734,531
2297---	Jute goods, linen goods, and other miscellaneous textiles, total....		xxx	128,548	xxx	72,820
2299---						
22971	Jute goods, except jute felts.....		xxx	37,728	xxx	35,879
2297111	Jute yarn and rove.....	Thousand pounds....	94,142	25,315	100,894	26,923
2297151	Jute bagging for baling cotton.....	Thousand sq. yds....	25,207	4,186	45,055	5,730
2297155	Jute webbing.....	..do.....	26,179	8,227	(NA)	3,226
2297198	All other jute woven goods.....	..do.....				
2298---	Rope, cable and twine, total.....		xxx	159,853	xxx	169,373
22981	Hard fiber cordage and twine.....		249,343	64,759	271,398	67,962
	Cordage (rope and cable):					
2298111	Abaca rope and cable:					
	3/4 inch in diameter and larger.....	Thousand pounds....	52,498	19,004	81,217	25,270
2298115	Less than 3/4 inch in diameter.....	..do.....	22,146	8,805	17,675	5,792
	Agave rope and cable:					
2298121	3/4 inch diameter and larger.....	..do.....	3,952	1,218	3,874	973
2298125	Less than 3/4 inch diameter.....	..do.....	13,195	4,255	21,912	5,817
2298129	Other hard fiber rope and cable.....	..do.....	5,077	1,265	(NA)	(NA)
	Twine:					
2298131	Binder twine.....	..do.....	16,782	2,999	67,440	12,175
2298133	Baler twine.....	..do.....	113,225	22,094	66,297	14,095
2298135	Wrapping or tying twines.....	..do.....	21,203	4,717	12,270	3,385
2298139	Other hard fiber twine.....	..do.....	1,265	402	2,213	755
2298151	Hard fiber cord.....		...	...	...	...
22982	Soft fiber cordage and twine, except cotton.....	Thousand pounds....	xxx	42,486	75,668	32,743
2298211	For net making and net repairing (nylon and flax).....	..do.....	1,232	3,597	980	1,645
	For wrapping and other uses:					
2298221	Hemp cordage and twine.....	..do.....	1,489	654	6,626	2,466
2298223	Jute twine.....	..do.....	25,317	8,096	45,150	12,453
2298225	Paper twine.....	..do.....	26,149	6,458	15,074	3,429
2298227	Other soft fiber cordage and twine.....	..do.....	20,545	10,344	5,800	2,706
	Fishline:					
2298231	Nylon.....	..do.....	330	8,355	326	5,890
2298241	Other.....	..do.....	176	1,728	313	3,237
2298251	Synthetic fiber rope.....	..do.....	1,325	3,254	1,399	922
22983	Cotton cordage and twine.....		xxx	52,608	91,693	63,663
2298311	Braided cord.....	..do.....	23,481	15,419	730,594	719,904
	Twine:					
2298321	Seine twine.....	..do.....	9,299	7,320	16,517	12,000
2298331	Wrapping and other.....	..do.....	39,020	22,092	35,661	23,523
2298341	Fishing netting.....		3,239	5,797	7,511	11,583
2298398	All other cotton cordage and twine.....	..do.....	3,051	1,980	1,410	1,653

See footnote at end of tables.



## MANUFACTURES--INDUSTRY STATISTICS

Table 6A.--QUANTITY AND VALUE OF PRODUCTS SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, FOR THE UNITED STATES: 1954 AND 1947--Continued

Product code	Product	Unit of measure	Total shipments including interplant transfers			
			1954		1947	
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
2299----	Linens goods, non-woven fabrics, novelty yarns, and textile products, n.e.c., total.....	.....	xxx	90,820	xxx	36,950
22991	Linens goods.....	.....	xxx	8,473	xxx	8,958
2299111	Linens (flax) thread (excluding jacquard thread and jacquard twine).....	Thousand pounds....	1,972	4,272	2,117	4,813
2299131	Linens (flax or hemp) woven goods and towels.....	Thousand sq. yds....	2,374	1,570	4,065	2,738
2299198	Other linens goods.....	.....	xxx	2,831	xxx	1,407
22992	Other textile goods, not elsewhere classified.....	.....	xxx	82,147	xxx	27,992
2299211	Non-woven textile (bonded fabrics):					
2299215	Primarily cotton.....					
2299215	Primarily other fibers.....		xxx	82,147	xxx	27,992
2299298	Other textile goods, not elsewhere, classified.....	.....				

xxx Not applicable.

NA Not available.

<sup>1</sup>Shipments in pounds not available; reported as 36,029,000 square yards.<sup>2</sup>Code 2292031, Barmen laces, and code 2292071, bobbinets, have been combined with code 2292098, all other laces and nets.<sup>3</sup>Does not include sales by textile mills of "original" mill waste such as card strips, noils, and sweepings.<sup>4</sup>Pyroxylin-coated paper is included in product code 2641531, special coated paper (see Bulletin MC-26B, Converted Paper and Board Products).<sup>5</sup>In thousands of square yards.<sup>6</sup>Code 2295331, oilcloth, included with code 2295398, other impregnated and coated fabrics.<sup>7</sup>Includes rope and cable.<sup>8</sup>Primarily novelty weaving and knitting yarns, plied or otherwise prepared from purchased yarns (not spun or thrown in the reporting establishment); and non-woven fabrics.<sup>9</sup>Code 2295311, varnished insulating fabrics combined with code 2295398, other impregnated and coated fabrics.

Table 6B.--VALUE OF PRODUCT CLASSES SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, BY DIVISIONS AND STATES FOR 1954, AND UNITED STATES TOTALS FOR EARLIER YEARS

(In thousands of dollars. Statistics are shown for selected product classes which are economically significant and production of which is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (Table 2) and they are not miscellaneous or "not specified by type" classes. For each product class, States are listed only if the value of shipments is more than \$1 million and the figure does not disclose individual company information. Additional States which had shipments of more than \$1 million of the individual product classes are listed in footnote 1)

Product class, region, and State <sup>1</sup>	Value of shipments	Product class, region, and State <sup>1</sup>	Value of shipments	Product class, region, and State <sup>1</sup>	Value of shipments
<u>Resin-coated fabrics (22952)</u>		<u>Hard fiber cordage and twine (22981)--Continued</u>		<u>Soft fiber cordage and twine, except cotton (22982)--Continued</u>	
1954 United States, total.....	115,866	North Central.....	5,685	Pacific.....	3,499
1953 United States, total.....	133,147			California.....	2,567
1952 United States, total.....	105,673	<u>Soft fiber cordage and twine, except cotton (22982)</u>			
1951 United States, total.....	89,052	1954 United States, total.....	42,486	<u>Cotton cordage and twine (22983)</u>	
1950 United States, total.....	72,543	1953 United States, total.....	37,957	1954 United States, total.....	52,608
1947 United States, total.....	36,907	1952 United States, total.....	37,433	1953 United States, total.....	61,492
1954		1951 United States, total.....	40,947	1952 United States, total.....	62,620
New England.....	13,472	1947 United States, total.....	32,748	1951 United States, total.....	75,904
Massachusetts.....	11,396			1947 United States, total.....	68,663
Middle Atlantic.....	45,373	1954			
New York.....	19,422	New England.....	9,040		
New Jersey.....	24,494	Massachusetts.....	3,986	New England.....	3,551
Pennsylvania.....	1,456	Connecticut.....	2,715	Middle Atlantic.....	2,379
East North Central.....	52,926			New Jersey.....	1,367
Ohio.....	25,606	Middle Atlantic.....	16,548		
<u>Hard fiber cordage and twine (22981)</u>		New York.....	8,911	East North Central.....	2,527
1954 United States, total.....	64,759	New Jersey.....	2,093		
1953 United States, total.....	63,152	Pennsylvania.....	5,544	South Atlantic.....	25,345
1952 United States, total.....	105,254			South Carolina.....	13,219
1951 United States, total.....	111,181	East North Central.....	9,655		
1947 United States, total.....	67,962	Michigan.....	2,667	East South Central.....	15,779
1954					
Middle Atlantic.....	21,612				
New York.....	13,950				

NOTE: The figures shown for 1950 to 1953 are sample estimates obtained from the Annual Survey of Manufactures for those years. Since the estimates are based on a sample they are subject to sampling variability, that is, they are not the same as figures which would have been obtained if complete censuses had been taken for those years. Measures of the sampling variability (standard errors) of the estimated total value of shipments of each product class are shown in the Annual Survey of Manufactures publications. Also shown are the standard errors of the relative change in shipments between some consecutive Annual Survey years which are the more significant measures when the series is studied for trend.

<sup>1</sup>For the specified product classes, shipments of over \$1 million were reported for the States listed but the exact figures are withheld to avoid disclosure of individual company figures: 22952, Rhode Island, Indiana, Michigan, Wisconsin, and California; 22981, Massachusetts, New Jersey, Pennsylvania, Ohio, Illinois, Missouri, Louisiana, and California; 22982, Rhode Island, Illinois, and California; 22983, Massachusetts, Illinois, Indiana, Georgia, Kentucky, Tennessee, Alabama, and Texas.

## MISCELLANEOUS TEXTILE GOODS

22F-15

Table 7.—MATERIALS CONSUMED, BY KIND: 1954

Code	Description of materials	Unit of measure	Quantity	Delivered cost (\$1,000)
INDUSTRY 2295—COATED FABRIC, EXCEPT RUBBERIZED				
280051	Materials, containers, and supplies, total.....	.....	xxx	127,935
	Pigment.....	Thousand pounds ..	(NA)	3,879
282371	Pyroxylin.....	.....do.....	(NA)	2,406
223111	Cotton fabrics.....	Thousand lin. yds.	175,673	52,135
223131	Man-made fiber fabrics.....	.....do.....	5,379	2,259
970000	Other materials, containers, and supplies consumed, including materials etc., not specified by kind.....	.....	xxx	67,256

xxx Not applicable.

NA Not available.

Table 8.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY INDUSTRY SPECIALIZATION AND PRIMARY PRODUCT CLASS SPECIALIZATION, FOR THE UNITED STATES: 1954

(This table presents selected statistics for establishments classified according to their degree of specialization in products primary to the industry. The establishments are classified in two ways: (1) by industry specialization—the degree of specialization in all primary products of the industry; and (2) by product-class specialization—the degree of specialization in the largest product class of the establishment. The degree of "industry specialization" for an establishment represents the ratio of its primary product shipments to its total product shipments, primary and secondary. The degree of "product-class specialization" for an establishment represents the ratio of its largest product class shipments to its total product shipments, primary and secondary. Data are not shown for some industries, product classes, and specialization ranges for a variety of reasons, consequently, detailed figures frequently do not add to the totals. See Introduction for detailed explanation)

Ind. or product class No.	Industry or product class by percent of specialization	Establishments, number	All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
2295	COATED FABRIC, EXCEPT RUBBERIZED (entire industry).....	106	8,547	41,699	6,576	14,711	27,386	80,294	132,016	212,310
	Establishments with:									
	90% or more specialization.....	59	4,218	20,854	3,270	7,357	13,840	41,330	74,430	115,761
	75-89% specialization.....	12	2,196	10,506	1,600	3,390	6,656	21,340	30,204	51,545
	50-74% specialization.....	9	1,428	7,410	1,164	2,709	4,889	12,630	19,413	32,044
	All other <sup>1</sup> .....	26	704	2,928	541	1,253	2,000	4,992	7,967	12,960
22951	Pyroxylin-coated fabrics.									
	All establishments specializing in product class.	20	1,978	9,939	1,587	3,663	6,543	17,273	29,637	46,911
	Establishments with:									
	90% or more specialization.....	10	283	1,250	219	442	721	2,004	4,918	6,923
22952	Resin-coated fabrics:									
	All establishments specializing in product class.	22	3,384	17,301	2,624	5,967	11,493	35,494	63,154	98,649
	Establishments with:									
	90% or more specialization.....	10	1,334	6,482	1,075	2,516	4,626	12,295	28,189	40,484
22953	Other impregnated and coated fabrics:									
	All establishments specializing in product class.	25	2,397	11,215	1,740	3,643	7,101	22,463	30,513	52,977
	Establishments with:									
	90% or more specialization.....	14	437	1,902	336	705	1,241	2,661	5,240	7,901
	75-89% specialization.....	5	467	2,189	317	624	1,122	3,597	4,931	8,528
2298	CORDAGE AND TWINE (entire industry).....	137	12,327	37,374	10,709	20,568	28,128	77,298	82,649	159,948
	Establishments with:									
	90% or more specialization.....	105	7,339	23,562	6,245	12,132	17,053	51,400	56,992	108,393
	75-89% specialization.....	13	2,410	6,190	2,230	4,134	5,183	13,866	11,904	25,771
	50-74% specialization.....	11	2,123	5,928	1,869	3,620	4,733	9,143	11,380	20,524
	All other <sup>1</sup> .....	8	453	1,693	364	680	1,157	2,888	2,371	5,259
22981	Hard fiber cordage and twine:									
	All establishments specializing in product class.	28	4,443	16,331	3,564	6,924	11,033	38,213	35,518	73,731
	Establishments with:									
	90% or more specialization.....	22	2,381	8,525	1,942	3,665	5,896	23,536	22,624	46,161
22982	Soft fiber cordage and twine, except cotton:									
	All establishments specializing in product class.	38	2,054	6,054	1,810	3,625	4,529	11,087	9,937	21,024
	Establishments with:									
	90% or more specialization.....	23	854	2,461	744	1,491	1,781	4,230	5,110	9,341
	75-89% specialization.....	8	528	1,534	477	904	1,177	3,121	2,404	5,525
	50-74% specialization.....	7	671	2,058	588	1,229	1,571	3,735	2,422	6,157
22983	Cotton cordage and twine:									
	All establishments specializing in product class.	48	5,304	13,073	4,912	9,225	11,253	24,674	34,183	58,858
	Establishments with:									
	90% or more specialization.....	34	2,069	5,331	1,906	3,693	4,486	10,300	14,109	24,410
	75-89% specialization.....	7	1,037	2,743	964	1,862	2,365	4,828	6,818	11,647
	50-74% specialization.....	7	2,197	4,998	2,041	3,670	4,401	9,545	13,255	22,801
2299	TEXTILE GOODS N.E.C. (entire industry).....	108	8,975	29,106	7,736	14,888	21,116	54,115	67,488	121,603
	Establishments with:									
	90% or more specialization.....	81	4,233	13,024	3,739	7,014	9,349	27,734	37,655	65,390
	75-89% specialization.....	7	1,746	6,188	1,387	2,717	3,916	9,556	10,584	20,140
	50-74% specialization.....	12	2,205	7,106	1,944	3,874	5,737	12,249	16,165	28,414
	All other <sup>1</sup> .....	8	791	2,787	665	1,282	2,113	4,575	3,083	7,658
22991	Linon goods:									
	All establishments specializing in product class.	38	4,708	14,217	4,215	8,169	11,594	21,750	27,488	49,239
	Establishments with:									
	90% or more specialization.....	23	1,363	3,515	1,234	2,293	2,829	5,905	8,267	14,172
	75-89% specialization.....	4	858	2,729	788	1,569	2,278	3,235	5,788	9,023

<sup>1</sup>This class includes data for establishments with less than 50% specialization in the primary products of the industry and establishments engaged exclusively in contract work defined in the industry. Miscellaneous small statistical adjustments are also included.





## Major Group 23.—Apparel and Related Products

This major group of industries, generally known as the "cutting-up and needle trades," includes establishments producing clothing and fabricated textile products by cutting and sewing purchased woven or knit textile fabrics and related materials such as leather, rubberized fabrics, plastics and furs. Excluded from this group are knitting mills primarily engaged in manufacturing apparel from yarns knitted in the same establishment; such plants are included in Group 225, Knitting Mills. Furthermore, establishments primarily engaged in manufacturing felt and straw hats, except millinery, are included in Group 228, Hats, Except Cloth and Millinery; those producing leather shoes and gloves in Major Group 31, Leather and Leather Products; and rubber footwear in Industry 3021, Rubber Footwear. Custom tailors and dressmakers, who manufacture and sell apparel in the same retail establishment, are classified as nonmanufacturing. Similarly, establishments which are primarily wholesalers or dealers in that they purchase and resell finished garments but do not perform the functions of the apparel jobbers described below are classified in Wholesale Trade.

There are three types of establishments which operate in the apparel industries included in Major Group 23: (1) the regular factories or "manufacturers;" (2) the apparel "jobbers;" and (3) the contract factories or "contractors." The "manufacturers" purchase fabric, employ production workers in their own plants to cut and sew the materials into apparel, and sell the final product; in effect, such establishments perform all of the usual manufacturing functions within their own establishments. The "jobbers," on the other hand, primarily perform the entrepreneurial functions of a manufacturing company such as buying raw materials, designing and preparing samples, arranging for the manufacture of the garments from their materials, and selling of the finished apparel. The actual processing (cutting, sewing, etc.) is performed on contract by the apparel contractors, although many jobbers perform the cutting operation in their own establishments. The 1954 edition of the Standard Industrial Classification has been amended by the Bureau of the Budget by the transfer of apparel jobbers from Wholesale Trade to Manufacturing. Apparel jobbers were included in manufacturing in earlier censuses and the data are therefore comparable for all years.

In reporting on the Census of Manufactures questionnaires, the manufacturers show figures on employment, cost of raw materials, and value of products made and sold. The apparel "jobbers" report data comparable to the manufacturers on the cost of raw materials and the value of products, but very little employment at their establishments. The labor costs incurred in producing their garments are included by the

"jobbers" in cost of contract work. The value added by manufacture shown for apparel "jobbers," as for all other manufacturing industries, exclude the cost of contract work as well as the cost of materials. The "contractors," on the other hand, report their employment and receipts for contract work rather than the value of products. These contract plants do not report the cost of materials which they process but only the cost of their own operating supplies. As a result, for "contractors," the ratio of wages and salaries to value added by manufacture is substantially higher than the ratio for "manufacturers," which, in turn, is substantially greater than for "jobbers."

In order to point up these significant differences in the relationship between wages and salaries paid, the cost of materials, the value of products, and value added by manufacture for the three types of establishment, plants were classified by their primary method of operations as "manufacturer," "jobber," or "contractor."

The table below provides comparative data for each of the three types of establishments included in the industries covered by this report. In this connection it should be noted that establishments in these industries may also employ more than one method of operating. For example, some establishments will act as both "manufacturer" and "jobber," or as "manufacturer" and "contractor." In assigning the primary method of operation classification to manufacturer-jobber plants, their relationship between wages and salaries paid to the cost of contract work was used. If wage and salary payments, exceeded contract payments, the plant was classified as a "manufacturer;" if the contract payments exceeded the wages and salary payments, the plant was classified as a "jobber." Similarly for manufacturer-contractor plants, the relationship between the value of products made for their own account was compared with the receipts for work done on materials owned by other establishments to determine the plants' primary method of operation. In the case of some multi-unit companies, it was necessary to treat stitching plants at separate locations as contract plants because of the record-keeping practices of the companies. This somewhat inflates the amount of contract payments and receipts as they are usually described in the trade, which thinks of contractors in terms of independently owned establishments.

Although similar data by type of operation for 1947 are not readily available, it is believed that there has not been any substantial shift between 1947 and 1954 in the relative importance of each type of operation; data for 1939 and earlier years are shown in Volume II, Part I, of the 1939 Census of Manufactures.

SUMMARY STATISTICS FOR SELECTED APPAREL INDUSTRIES, BY TYPE OF ESTABLISHMENT: 1954  
(Thousands of dollars)

Item	Total (excludes S.I.C. 239)	Men's and boys' suits and coats (S.I.C. 231 <sup>1</sup> )	Men's and boys' suits furnishings (S.I.C. 232 <sup>2</sup> )	Women's and misses' outerwear (S.I.C. 233)	Women's undergarments (S.I.C. 234)	Mil- linery (S.I.C. 235 <sup>3</sup> )	Children's outerwear (S.I.C. 236)	Fur goods (S.I.C. 237 <sup>4</sup> )	Miscel- laneous apparel (S.I.C. 238 <sup>4</sup> )
Value of products, including miscellaneous receipts.	10,219,030	1,168,722	2,365,168	3,805,244	1,164,832	173,125	741,856	227,525	572,558
Manufacturers.....	5,386,041	634,416	1,407,806	1,432,070	759,136	173,125	342,665	227,525	490,298
Jobbers.....	3,420,451	362,900	586,792	1,754,076	302,277	...	308,161	...	106,245
Contractors.....	1,308,079	148,336	300,251	619,098	103,419	...	91,030	...	45,945
Cost of materials, fuels, electricity, and contract work.....	5,698,588	620,553	1,356,807	2,119,183	651,577	71,945	419,804	152,770	305,949
Manufacturers.....	2,889,369	315,088	798,944	744,617	407,495	71,945	186,530	152,770	211,980
Jobbers.....	2,601,515	280,435	463,356	1,318,804	231,838	...	227,375	...	79,707
Contractors.....	140,763	16,285	42,691	55,762	12,244	...	5,899	...	7,882
Cost of materials, etc., excluding contract work.....	4,497,911	473,023	1,134,033	1,545,990	546,789	69,428	317,048	149,663	261,937
Manufacturers.....	2,694,944	291,811	761,239	672,932	382,260	69,428	167,045	149,663	200,566
Jobbers.....	1,641,836	161,377	298,959	834,106	154,086	...	144,885	...	48,423
Contractors.....	111,459	12,190	37,409	38,952	10,443	...	5,118	...	7,347
Cost of contract work.....	1,200,677	147,530	222,774	573,193	104,788	2,517	102,756	3,107	44,012
Manufacturers.....	194,425	23,277	37,705	71,685	25,235	2,517	19,485	3,107	11,414
Jobbers.....	959,679	119,058	164,397	484,698	77,752	...	82,490	...	31,284
Contractors.....	29,304	4,095	5,282	16,810	1,801	...	781	...	535
Value added by manufacture.....	4,520,416	548,168	1,008,357	1,686,053	513,253	101,180	322,049	74,755	266,601
Manufacturers.....	2,496,658	319,326	608,859	687,453	351,641	101,180	156,134	74,755	197,310
Jobbers.....	818,917	82,464	123,432	435,266	70,438	...	80,785	...	26,532
Contractors.....	1,167,303	132,050	297,556	563,334	91,174	...	85,130	...	38,059
Wages and salaries paid.....	2,820,459	382,480	638,730	1,046,115	284,812	65,809	196,301	42,833	163,379
Manufacturers.....	1,530,715	225,981	377,579	417,234	185,109	65,809	94,714	42,833	121,456
Jobbers.....	323,982	35,562	43,769	174,180	26,817	...	33,201	...	10,453
Contractors.....	966,949	112,635	209,831	454,701	72,886	...	68,386	...	28,510
Ratio of wages and salaries to value added by manufacture.....	.62	.70	.63	.62	.55	.65	.61	.57	.61
Manufacturers.....	.61	.71	.62	.61	.53	.65	.61	.57	.62
Jobbers.....	.40	.43	.35	.40	.38	...	.41	...	.39
Contractors.....	.81	.85	.81	.81	.80	...	.80	...	.75

<sup>1</sup>The totals include 14 establishments with 2,810 employees; \$23,069 thousand value of shipments; and \$14,326 value added by manufacture, which are not included in the separate totals for manufacturers, jobbers, and contractors. <sup>2</sup>The totals include 24 establishments with 3,242 employees; \$70,317 thousand value of shipments; and \$18,506 thousand value added by manufacture, which are not included in the separate totals for manufacturers, jobbers, or contractors. <sup>3</sup>Separate data by type of establishment are not available. Establishments operating in these industries are practically all manufacturers. <sup>4</sup>The totals include 10 establishments with 1,264 employees; \$11,070 thousand value of shipments; and \$4,699 thousand value added by manufacture, which are not included in the separate totals for manufacturers, jobbers, or contractors. <sup>5</sup>Represents primarily receipts for contract and commission work on materials owned by others.

## MANUFACTURES--INDUSTRY STATISTICS

Table 1.—GENERAL STATISTICS FOR THE INDUSTRY GROUP: 1954 AND EARLIER YEARS

(For explanation of column captions see Introduction)

Year <sup>1</sup>	Establishments, number	All employees <sup>2</sup>		Production workers			Value added by manufacture <sup>3</sup> (\$1,000)	Capital expenditures, new (\$1,000)
		Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)		
1954.....	31,372	1,190,064	3,201,795	1,069,867	1,898,999	2,521,135	5,147,371	76,552
1953 <sup>4</sup> .....	(NA)	1,227,161	3,357,941	1,105,498	1,994,996	2,652,212	5,414,627	60,161
1952 <sup>4</sup> .....	28,979	1,142,655	3,079,050	1,018,354	1,875,459	2,403,660	4,849,336	54,657
1951 <sup>4</sup> .....	28,931	1,123,171	2,955,023	1,001,672	1,818,650	2,294,761	4,698,888	69,309
1950 <sup>4</sup> .....	26,145	1,150,624	2,765,215	1,004,685	1,815,125	2,170,191	4,175,974	62,558
1949 <sup>4</sup> .....	(NA)	1,160,808	2,717,148	1,008,696	1,812,868	2,093,843	4,245,194	53,712
1947.....	30,963	1,081,670	2,525,183	973,029	1,811,120	2,014,758	4,439,597	83,945
1939 <sup>5</sup> .....	20,275	(NA)	(NA)	752,829	(NA)	656,289	1,386,004	(NA)
1937 <sup>5</sup> .....	16,284			693,112		600,424	1,244,542	
1935.....	18,852			630,678		545,470	1,122,911	
1933.....	14,801			513,448		365,732	825,770	
1931.....	19,650	(NA)	(NA)	531,190	(NA)	502,602	1,369,698	(NA)
1929.....	22,870			606,087		686,846	1,927,269	
1927.....	21,977			570,613		672,644	1,877,954	
1925.....	18,609			515,264		601,603	1,685,332	
1923.....	20,333			545,491		626,818	1,748,238	
1921.....	20,049			514,666		584,036	1,408,056	
1919.....	22,501			553,715		578,077	1,617,726	
1914.....	18,015			548,255		269,953	682,344	
1909.....	16,747			537,275		247,061	613,541	
1904.....	12,416			391,275		158,855	413,851	
1899.....	12,679			337,934		123,092	309,057	

NA Not available.

<sup>1</sup>In addition to data for operating establishments, manufacturers' central administrative offices and auxiliary units reported 5,928 employees with a payroll of \$35,132 thousand in 1954. Similar data are shown for the years 1949-1953 in the Annual Survey of Manufactures volumes. Data for these units are not available for the years prior to 1949.

<sup>2</sup>The figures for 1939 through 1954 include data for employees of manufacturing establishments who were engaged in distribution and construction work. The extent to which data for such employees are included in the figures for earlier years is not known.

<sup>3</sup>Value of products less cost of materials, supplies, fuel, electricity, and contract work. For 1899-1933, cost of contract work was not subtracted from value of products in calculating value added by manufacture.

<sup>4</sup>The figures for 1949-1953 represent estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period.

<sup>5</sup>The figures for all years except 1939 and 1937 include data for establishments that cut and stitch products from knit cloth made in separate mills or of integrated companies. The 1939 and 1957 data for these establishments are included in the figures for the textile mill products industries.

## APPAREL AND RELATED PRODUCTS

23-3

Table 2.—GENERAL STATISTICS FOR INDUSTRY GROUPS BY REGIONS AND STATES: 1954 AND 1947

(For explanation of column captions see Introduction)

Industry group, region, and State <sup>1</sup>	1954						1947			
	Number of establish- ments	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
		Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
Apparel and related prod- ucts (S.I.C. Group 23), total.....	31,372	1,190,064	3,201,795	1,069,867	1,898,994	2,521,135	5,147,371	76,552	1,081,670	4,439,597
New England.....	1,874	86,849	226,900	79,304	141,735	184,377	362,163	4,576 ( <sup>2</sup> )	74,394	275,880
Maine.....	53	2,922	7,254	2,661	4,834	5,829	13,226	( <sup>2</sup> )	3,538	18,066
New Hampshire.....	39	1,147	2,668	1,062	1,808	2,224	3,749	( <sup>2</sup> )	2,385	8,818
Vermont.....	39	2,249	4,456	2,113	3,491	3,850	7,901	( <sup>2</sup> )	1,717	4,501
Massachusetts.....	1,283	58,897	155,694	53,587	96,305	125,104	244,050	3,374	47,465	172,497
Rhode Island.....	75	4,164	10,179	3,337	7,191	8,518	18,509	( <sup>2</sup> )	3,132	11,070
Connecticut.....	385	17,467	46,646	16,042	28,104	38,851	74,726	903	16,157	60,938
Middle Atlantic.....	20,833	614,949	1,791,220	550,537	963,125	1,404,420	2,879,631	27,803	593,368	2,691,326
New York.....	16,053	379,926	1,203,146	332,416	579,458	905,524	2,012,515	16,066	380,873	1,998,314
New Jersey.....	2,472	77,872	213,605	71,822	124,249	179,726	319,202	4,720	70,576	256,395
Pennsylvania.....	2,308	157,151	374,469	146,298	259,417	319,170	547,914	7,015	141,919	436,617
East North Central.....	2,406	110,567	316,448	95,201	168,962	231,606	495,060	13,198	126,956	508,445
Ohio.....	460	25,714	75,029	21,844	38,923	53,805	112,759	2,007	31,291	127,753
Indiana.....	197	15,358	36,537	13,734	24,348	28,761	60,167	964	16,148	57,256
Illinois.....	1,250	50,817	148,613	43,751	76,377	107,663	232,342	3,408	60,390	252,257
Michigan.....	291	10,218	32,565	8,761	16,195	24,636	52,027	6,398	9,461	35,677
Wisconsin.....	208	8,458	23,702	7,110	13,117	16,739	37,753	( <sup>2</sup> )	9,666	35,502
West North Central.....	903	52,237	134,024	46,166	83,406	101,933	212,260	3,627	54,132	186,137
Minnesota.....	186	8,971	24,858	7,715	13,681	18,382	38,962	( <sup>2</sup> )	9,036	33,684
Iowa.....	82	3,975	9,449	3,398	6,160	6,997	12,541	( <sup>2</sup> )	4,466	12,198
Missouri.....	531	35,375	90,803	31,561	56,977	69,444	145,390	2,590	37,174	129,167
Nebraska.....	35	1,493	3,502	1,317	2,516	2,733	6,723	( <sup>2</sup> )	1,224	4,167
Kansas.....	63	2,406	5,383	2,161	4,047	4,351	8,593	( <sup>2</sup> )	2,175	6,818
South Atlantic.....	1,571	134,933	293,118	124,376	226,333	242,669	468,739	12,734	99,733	328,565
Delaware.....	34	3,265	7,191	2,816	5,407	5,725	22,037	616	2,480	11,269
Maryland.....	383	24,043	62,736	21,195	38,288	47,757	105,151	1,485	23,627	94,866
District of Columbia.....	14	177	408	158	284	297	726	( <sup>2</sup> )	242	676
Virginia.....	169	19,584	40,867	18,470	34,002	35,441	59,293	1,149	15,057	48,971
West Virginia.....	37	4,321	9,011	3,969	6,854	7,497	11,316	( <sup>2</sup> )	3,800	8,562
North Carolina.....	207	21,364	41,233	19,866	34,596	34,680	63,179	2,341	16,644	43,852
South Carolina.....	137	19,777	41,851	18,533	35,049	36,485	67,955	2,239	10,824	38,292
Georgia.....	316	36,552	76,876	34,075	62,244	64,377	119,209	4,128	25,041	76,164
Florida.....	269	5,847	12,942	5,291	9,604	10,407	19,869	595	2,018	5,913
East South Central.....	519	82,028	158,300	77,468	141,518	137,586	256,962	5,230	50,779	135,152
Kentucky.....	105	17,013	37,089	15,906	27,624	31,333	56,661	901	12,548	41,025
Tennessee.....	175	27,443	50,677	25,867	46,620	44,411	80,888	1,369	19,017	47,533
Alabama.....	130	18,351	34,327	17,343	31,168	30,135	64,397	1,717	8,190	21,031
Mississippi.....	100	19,221	36,210	18,353	36,107	31,708	55,017	1,240	11,034	25,563
West South Central.....	638	42,341	89,083	38,635	70,674	70,727	143,843	3,398	31,259	97,498
Arkansas.....	46	5,250	9,978	5,032	8,957	8,817	14,381	( <sup>2</sup> )	2,482	5,623
Louisiana.....	76	6,179	13,463	5,437	9,471	9,640	20,568	1,190	6,188	18,986
Oklahoma.....	55	2,368	4,529	2,210	3,614	3,830	10,204	( <sup>2</sup> )	855	2,466
Texas.....	511	28,543	61,112	25,954	48,631	48,438	98,689	1,891	21,734	70,423
Mountain.....	192	4,546	10,220	3,980	7,159	7,732	16,539	( <sup>2</sup> )	3,244	9,824
Colorado.....	66	1,880	4,689	1,598	2,859	3,376	6,971	( <sup>2</sup> )	1,632	5,234
New Mexico.....	23	278	408	246	326	360	956	( <sup>2</sup> )	295	648
Arizona.....	46	785	1,727	708	1,282	1,333	3,641	( <sup>2</sup> )	67	271
Utah.....	36	1,508	3,141	1,354	2,545	2,482	4,543	( <sup>2</sup> )	1,179	3,433
Pacific.....	2,386	61,610	182,480	54,195	96,083	140,079	312,171	5,592	47,805	206,770
Washington.....	131	3,694	10,454	3,154	5,829	7,751	19,330	612	2,778	10,583
Oregon.....	66	2,434	7,307	2,048	3,709	5,229	13,260	( <sup>2</sup> )	1,883	7,893
California.....	2,189	55,481	164,718	48,993	86,544	127,098	279,580	4,791	43,144	188,294
Men's and boys' suits and coats (S.I.C. Group 231), total.....	1,426	121,686	322,480	109,135	191,935	307,160	548,168	3,561	151,116	676,947
New England.....	110	6,886	21,620	6,212	10,873	17,418	29,088	( <sup>2</sup> )	9,640	37,383
Massachusetts.....	101	6,603	20,875	5,952	10,389	16,777	28,139	( <sup>2</sup> )	9,136	35,796
Middle Atlantic.....	380	65,513	216,085	59,473	105,770	177,677	312,553	1,296	84,404	398,345
New York.....	596	35,034	123,498	31,280	56,189	99,008	186,871	611	49,446	260,306
New Jersey.....	86	7,365	21,486	6,961	11,956	19,100	26,231	( <sup>2</sup> )	11,115	40,413
Pennsylvania.....	198	23,114	71,101	21,232	37,624	59,568	99,450	582	23,843	97,626
East North Central.....	158	20,432	63,325	17,532	29,351	47,798	85,205	1,050	26,832	117,868
Ohio.....	44	7,792	24,317	6,828	11,555	18,751	32,294	592	10,584	47,618
Indiana.....	4	1,493	3,544	1,398	2,453	3,211	4,302	( <sup>2</sup> )	1,729	5,675
Illinois.....	98	10,802	34,440	8,995	14,775	24,979	47,350	( <sup>2</sup> )	13,475	60,913
Wisconsin.....	7	301	849	267	467	682	1,043	( <sup>2</sup> )	855	2,960

See footnotes at end of table.



## MANUFACTURES—INDUSTRY STATISTICS

Table 2.—GENERAL STATISTICS FOR INDUSTRY GROUPS BY REGIONS AND STATES: 1954 AND 1947—Continued

(For explanation of column captions see Introduction)

Industry group, region, and State <sup>1</sup>	1954							1947		
	Number of establish- ments	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
		Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
Men's and boys' suits and coats (S.I.C. Group 231)—Continued										
West North Central.....	36	3,622	10,987	3,267	5,913	8,676	17,739	(2)	3,563	15,990
Minnesota.....	13	612	2,097	550	1,036	1,584	2,693	(2)	815	3,419
Iowa.....	4	274	629	246	367	520	710	(2)	(D)	(D)
Missouri.....	19	2,735	8,261	2,471	4,510	6,571	14,336	(2)	2,373	11,682
South Atlantic.....	124	13,184	38,297	11,676	20,631	29,739	58,627	(2)	13,325	61,024
Maryland.....	102	8,268	24,048	7,043	12,260	18,338	39,472	(2)	8,658	37,667
Virginia.....	7	1,974	5,262	1,881	3,228	4,664	6,148	(2)	2,534	15,515
Georgia.....	7	2,475	7,865	2,320	4,415	5,805	11,639	(2)	1,589	6,706
East South Central.....	19	6,588	15,797	6,072	10,711	13,148	21,655	(2)	6,861	23,238
Kentucky.....	10	4,207	11,109	3,857	7,107	9,178	16,796	(2)	(D)	(D)
West South Central.....	19	1,811	4,355	1,611	2,840	2,944	6,475	(2)	2,599	7,033
Louisiana.....	7	1,224	2,863	1,078	1,785	1,893	4,341	(2)	1,706	4,938
Mountain.....	4	206	513	191	353	407	559	(2)	412	1,646
Pacific.....	76	3,440	11,499	3,097	5,488	9,350	16,263	(2)	3,480	14,420
California.....	69	3,105	10,506	2,805	4,913	8,605	14,631	(2)	3,202	12,993
Men's and boys' furnish- ings (S.I.C. Group 232), total.....	3,901	285,594	638,732	263,003	469,927	522,918	1,008,357	16,684	253,020	801,633
New England.....	270	12,388	29,945	11,418	19,937	24,705	43,864	(2)	14,145	46,417
Maine.....	17	1,319	3,244	1,210	2,161	2,482	5,620	(2)	1,000	3,571
New Hampshire.....	8	538	1,314	506	878	1,110	1,861	(2)	(D)	(D)
Massachusetts.....	184	7,517	18,153	6,922	12,315	15,093	26,435	(2)	8,025	25,695
Connecticut.....	51	2,473	5,805	2,318	3,754	5,014	7,594	(2)	3,780	12,863
Middle Atlantic.....	1,883	86,222	222,364	77,995	136,535	176,581	347,162	3,674	93,593	338,930
New York.....	1,268	34,545	101,713	29,784	50,632	71,712	167,769	1,367	33,986	164,494
New Jersey.....	145	8,396	21,791	7,572	13,583	18,145	34,306	(2)	10,052	34,157
Pennsylvania.....	470	43,281	98,860	40,637	72,319	86,723	145,087	1,877	49,555	140,279
East North Central.....	372	21,675	54,382	19,201	33,782	40,630	84,873	989	25,094	83,802
Ohio.....	82	5,831	15,465	5,001	8,799	10,629	23,844	(2)	6,599	23,840
Indiana.....	53	7,048	16,468	6,290	11,035	12,703	27,968	(2)	7,984	24,992
Illinois.....	169	5,775	14,847	5,238	9,221	11,572	22,117	(2)	6,756	23,505
Michigan.....	39	1,257	2,927	1,102	1,917	2,257	4,148	(2)	1,570	4,714
Wisconsin.....	29	1,763	4,673	1,568	2,808	3,468	6,795	(2)	2,185	6,751
West North Central.....	197	17,995	41,039	16,363	29,317	32,792	60,531	749	19,284	52,384
Minnesota.....	36	2,774	7,581	2,454	4,502	5,832	13,080	(2)	2,516	8,692
Iowa.....	21	1,063	2,137	906	1,473	1,584	2,717	(2)	1,998	5,399
Missouri.....	125	13,148	29,255	12,062	21,687	23,596	41,326	584	13,578	35,466
Nebraska.....	8	295	636	274	479	541	945	(2)	507	1,203
Kansas.....	7	714	1,429	666	1,173	1,237	2,462	(2)	685	1,624
South Atlantic.....	436	57,210	110,194	53,562	96,545	94,519	170,698	5,371	41,795	115,266
Delaware.....	5	852	1,770	814	1,481	1,538	3,307	(D)	581	1,225
Maryland.....	116	7,078	15,653	6,437	11,700	12,504	27,091	(2)	9,079	34,248
Virginia.....	48	8,937	15,589	8,581	15,341	14,130	24,077	(2)	6,394	15,956
West Virginia.....	6	318	484	298	415	412	634	(D)	1,315	2,552
North Carolina.....	62	8,832	15,644	8,312	14,185	13,439	23,766	637	5,523	13,780
South Carolina.....	48	7,854	15,256	7,392	13,770	13,452	21,098	949	5,243	13,732
Georgia.....	116	21,564	42,561	20,083	36,610	36,314	66,044	2,757	12,819	31,807
Florida.....	35	1,772	3,236	1,643	3,039	2,728	4,678	(2)	841	1,966
East South Central.....	259	56,363	103,670	53,680	98,613	91,793	163,751	3,178	33,490	78,952
Kentucky.....	50	9,300	19,058	8,773	14,764	16,275	28,599	639	5,756	16,228
Tennessee.....	88	20,157	34,992	19,198	34,386	31,714	55,013	936	12,967	28,379
Alabama.....	61	11,692	21,562	11,122	20,203	18,922	38,024	763	5,116	11,757
Mississippi.....	60	15,215	28,061	14,589	29,261	24,884	42,117	838	9,651	22,588
West South Central.....	145	19,490	38,954	18,062	32,699	32,191	64,875	1,141	14,627	45,051
Arkansas.....	19	3,661	6,890	3,506	6,003	6,010	10,037	(2)	1,991	4,315
Louisiana.....	19	2,877	5,991	2,577	4,558	4,434	10,111	(2)	2,472	7,598
Oklahoma.....	11	773	1,451	720	1,280	1,194	3,321	(2)	509	1,272
Texas.....	96	12,178	24,621	11,258	20,857	20,553	41,405	32	9,655	31,866
Mountain.....	21	1,248	3,089	1,022	1,903	2,048	3,540	(2)	1,232	3,669
Colorado.....	10	930	2,411	750	1,329	1,584	2,952	(2)	712	2,076
Arizona.....	6	122	229	116	223	205	333	(2)	(D)	(D)
Pacific.....	318	12,998	35,092	11,697	20,594	27,655	69,058	1,073	9,760	37,162
Washington.....	21	1,099	3,172	883	1,630	2,065	5,578	(2)	957	3,644
Oregon.....	5	563	1,790	501	835	1,298	3,072	(2)	547	2,083
California.....	292	11,335	30,129	10,312	18,128	24,291	60,407	813	8,256	31,435

See footnotes at end of table.

## APPAREL AND RELATED PRODUCTS

23-5

Table 2.—GENERAL STATISTICS FOR INDUSTRY GROUPS BY REGIONS AND STATES: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Industry group, region, and State <sup>1</sup>	1954							1947		
	Number of establish- ments	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
		Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
Women's and misses' outer- wear (S.I.C. Group 233), total.....	10,298	363,896	1,046,120	327,042	569,369	824,534	1,686,067	15,499	313,095	1,428,585
New England.....	641	29,967	78,255	27,803	48,990	65,123	122,386	1,247	20,448	74,092
Maine.....	5	275	470	260	438	406	538	( <sup>2</sup> )	103	147
New Hampshire.....	7	285	565	274	444	516	728	( <sup>2</sup> )	(D)	(D)
Massachusetts.....	464	21,314	57,213	19,577	35,329	46,495	93,645	967	13,476	51,161
Connecticut.....	142	6,453	16,778	6,122	10,263	14,860	21,761	( <sup>2</sup> )	5,489	19,033
Middle Atlantic.....	7,506	229,084	690,588	205,555	352,265	544,359	1,106,624	8,539	205,727	1,016,567
New York.....	6,000	156,080	518,079	136,539	234,275	391,999	867,522	5,644	152,470	855,597
New Jersey.....	742	28,109	75,692	26,572	43,774	67,570	100,778	1,108	22,906	76,002
Pennsylvania.....	764	44,894	96,817	42,444	74,215	84,789	137,846	1,786	30,351	84,968
East North Central.....	483	27,279	76,303	23,710	41,853	56,715	118,561	1,314	34,302	136,839
Ohio.....	61	5,377	16,023	4,417	8,089	10,892	25,412	( <sup>2</sup> )	7,431	31,709
Indiana.....	21	2,011	4,543	1,790	3,149	3,633	7,143	( <sup>2</sup> )	2,370	11,768
Illinois.....	386	16,649	46,926	14,812	25,722	36,039	72,975	908	20,642	77,572
Michigan.....	33	732	1,866	668	1,163	1,569	3,003	( <sup>2</sup> )	1,159	4,260
Wisconsin.....	32	2,509	6,944	2,022	3,728	4,580	10,017	( <sup>2</sup> )	2,700	11,530
West North Central.....	228	15,442	42,206	13,683	24,665	31,993	72,738	570	14,945	56,803
Minnesota.....	37	1,770	4,987	1,555	2,573	3,721	6,648	( <sup>2</sup> )	1,665	5,493
Iowa.....	6	693	1,548	662	1,260	1,418	1,601	( <sup>2</sup> )	(D)	(D)
Missouri.....	166	11,847	33,263	10,427	18,862	24,804	59,195	( <sup>2</sup> )	12,207	48,621
Kansas.....	12	555	1,204	508	978	1,019	2,202	( <sup>2</sup> )	521	1,415
South Atlantic.....	295	21,189	46,241	19,599	36,105	38,116	74,793	1,335	9,037	26,557
Maryland.....	59	4,670	12,572	4,113	7,620	9,234	22,377	( <sup>2</sup> )	2,651	10,682
Virginia.....	22	2,911	6,199	2,743	5,356	5,497	9,066	( <sup>2</sup> )	1,530	3,144
West Virginia.....	14	1,824	3,838	1,711	3,034	3,284	4,920	( <sup>2</sup> )	(D)	(D)
North Carolina.....	27	1,910	3,466	1,814	3,154	3,044	5,495	( <sup>2</sup> )	(D)	(D)
South Carolina.....	31	5,430	10,128	5,185	9,893	8,930	17,459	( <sup>2</sup> )	1,341	5,357
Georgia.....	32	1,252	2,601	1,131	1,941	2,010	3,870	( <sup>2</sup> )	886	2,224
Florida.....	100	2,734	6,551	2,469	4,360	5,229	9,975	( <sup>2</sup> )	510	1,705
East South Central.....	45	5,348	11,022	4,998	9,118	9,207	17,686	( <sup>2</sup> )	2,459	6,547
Kentucky.....	11	2,040	4,183	1,916	3,401	3,623	7,079	( <sup>2</sup> )	1,089	3,974
Tennessee.....	19	1,872	4,018	1,764	3,424	3,460	6,948	( <sup>2</sup> )	1,021	2,001
Alabama.....	8	285	464	270	480	411	701	( <sup>2</sup> )	(D)	(D)
Mississippi.....	7	1,150	2,356	1,047	1,812	1,712	2,958	( <sup>2</sup> )	(D)	(D)
West South Central.....	137	8,311	18,923	7,564	14,295	14,962	30,074	( <sup>2</sup> )	5,253	15,347
Arkansas.....	6	1,163	2,342	1,122	2,183	2,142	3,505	( <sup>2</sup> )	(D)	(D)
Oklahoma.....	6	103	201	97	167	178	238	( <sup>2</sup> )	(D)	(D)
Texas.....	122	7,007	16,336	6,310	11,894	12,604	26,315	( <sup>2</sup> )	(D)	(D)
Mountain.....	50	1,322	2,945	1,178	2,153	2,319	5,284	( <sup>2</sup> )	628	1,816
Colorado.....	8	198	514	178	354	437	862	( <sup>2</sup> )	167	440
Arizona.....	19	355	893	311	559	632	1,652	( <sup>2</sup> )	(D)	(D)
Pacific.....	913	25,949	79,634	22,947	39,922	61,735	137,917	1,663	20,296	94,017
Washington.....	29	1,084	3,038	976	1,756	2,412	7,193	( <sup>2</sup> )	624	2,862
Oregon.....	19	772	2,249	640	1,122	1,579	5,183	( <sup>2</sup> )	316	1,520
California.....	865	24,092	74,346	21,330	37,043	57,744	125,540	1,445	19,356	89,635
Women's undergarments (S.I.C. Group 234), total.....	1,843	112,234	284,814	100,609	179,036	219,040	513,256	8,432	94,615	385,296
New England.....	120	12,034	30,637	10,969	20,420	25,235	57,860	695	10,884	40,666
Vermont.....	9	846	1,889	800	1,486	1,712	3,100	( <sup>2</sup> )	286	685
Massachusetts.....	54	6,106	14,813	5,608	10,165	12,085	23,589	( <sup>2</sup> )	4,662	16,505
Rhode Island.....	6	606	1,382	582	1,176	1,262	2,122	( <sup>2</sup> )	(D)	(D)
Connecticut.....	48	4,426	12,448	3,933	7,507	10,090	28,907	( <sup>2</sup> )	(D)	(D)
Middle Atlantic.....	1,321	64,239	169,585	57,214	100,368	127,661	292,724	4,291	60,404	248,255
New York.....	1,007	37,200	104,535	32,501	57,405	74,982	191,118	2,383	35,738	172,998
New Jersey.....	138	10,108	27,937	8,869	15,631	21,050	49,779	714	8,299	31,569
Pennsylvania.....	176	16,929	37,113	15,843	27,331	31,629	51,826	1,193	16,366	43,688
East North Central.....	100	7,729	21,480	6,692	11,307	14,626	43,769	629	9,433	43,564
Ohio.....	7	249	479	233	373	432	739	( <sup>2</sup> )	182	593
Indiana.....	10	1,006	1,840	938	1,538	1,611	5,606	( <sup>2</sup> )	1,113	4,893
Illinois.....	60	4,414	14,693	3,605	6,129	8,723	27,991	( <sup>2</sup> )	5,702	28,955
Michigan.....	17	1,670	3,595	1,534	2,584	3,039	6,416	( <sup>2</sup> )	2,288	8,688
Wisconsin.....	6	389	872	381	680	819	3,016	( <sup>2</sup> )	148	435
West North Central.....	29	2,508	5,749	2,199	3,715	4,221	9,893	( <sup>2</sup> )	2,679	11,029
Missouri.....	17	1,351	3,145	1,201	2,115	2,310	5,668	( <sup>2</sup> )	1,502	6,153

See footnotes at end of table.

## MANUFACTURES—INDUSTRY STATISTICS

Table 2.—GENERAL STATISTICS FOR INDUSTRY GROUPS BY REGIONS AND STATES: 1954 AND 1947—Continued  
(For explanation of column captions see introduction)

Industry group, region, and State <sup>1</sup>	Number of establish- ments	1954							1947	
		All employees		Production workers			Value added by manu- facture	Capital expendi- tures, new	All employees, number	Value added by manu- facture
		Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	(\$1,000)	(\$1,000)		(\$1,000)
Women's undergarments (S.I.C. Group 234)—Continued										
South Atlantic.....	108	13,919	30,574	12,738	23,732	25,648	58,165	1,516	5,753	22,386
Maryland.....	7	809	1,662	743	1,286	1,450	3,203	( <sup>2</sup> )	763	2,412
Virginia.....	11	1,401	2,725	1,322	2,477	2,394	3,525	( <sup>2</sup> )	618	1,522
North Carolina.....	39	4,700	9,705	4,293	7,748	7,827	16,130	500	1,090	3,804
South Carolina.....	11	1,784	3,835	1,674	3,289	3,410	6,372	( <sup>2</sup> )	(D)	(D)
Georgia.....	19	2,712	6,893	2,558	4,904	6,033	10,663	( <sup>2</sup> )	(D)	(D)
Florida.....	9	246	553	206	395	435	871	( <sup>2</sup> )	(D)	(D)
East South Central.....	25	4,438	9,088	4,161	7,524	8,157	20,706	( <sup>2</sup> )	625	2,448
Tennessee.....	4	460	959	438	811	788	2,020	( <sup>2</sup> )	(D)	(D)
Mississippi.....	6	763	1,888	718	1,436	1,669	3,352	( <sup>2</sup> )	(D)	(D)
West South Central.....	43	3,278	6,285	3,057	5,460	5,302	10,796	( <sup>2</sup> )	1,565	4,152
Louisiana.....	8	663	1,409	596	1,085	1,024	2,068	( <sup>2</sup> )	(D)	(D)
Mountain.....	7	552	1,051	525	1,001	966	1,991	( <sup>2</sup> )	216	532
Pacific.....	90	3,534	10,363	3,049	5,505	7,220	17,348	530	3,056	12,264
Millinery (S.I.C. Group 235), total <sup>3</sup> .....	871	20,235	65,809	18,222	33,577	53,667	101,180	( <sup>4</sup> )	20,933	100,863
Children's outerwear (S.I.C. Group 236), total.....	1,983	77,538	196,303	70,086	125,003	155,804	322,052	3,844	48,245	177,777
New England.....	81	4,509	11,508	4,141	7,569	9,507	20,056	( <sup>2</sup> )	2,775	7,735
Maine.....	7	281	480	260	511	513	833	( <sup>2</sup> )	(D)	(D)
Vermont.....	10	305	578	277	491	485	881	( <sup>2</sup> )	(D)	(D)
Massachusetts.....	46	2,002	4,989	1,827	3,371	4,033	9,149	( <sup>2</sup> )	1,162	3,164
Rhode Island.....	4	882	2,382	816	1,588	2,061	5,001	( <sup>2</sup> )	(D)	(D)
Connecticut.....	14	1,038	3,079	959	1,606	2,413	4,191	( <sup>2</sup> )	476	1,382
Middle Atlantic.....	1,469	53,350	143,227	47,841	84,948	111,824	236,276	2,469	36,890	145,710
New York.....	1,032	28,626	83,057	24,965	43,744	61,001	145,038	1,434	20,919	94,353
New Jersey.....	215	9,158	23,572	8,593	15,006	20,020	35,760	( <sup>2</sup> )	5,554	16,249
Pennsylvania.....	222	15,564	36,598	14,282	26,197	30,802	55,478	649	10,417	30,108
East North Central.....	56	2,899	6,669	2,606	4,708	5,262	11,439	( <sup>2</sup> )	1,841	5,927
Indiana.....	7	420	962	385	685	712	1,423	( <sup>2</sup> )	(D)	(D)
Illinois.....	22	1,001	2,109	878	1,423	1,654	4,016	( <sup>2</sup> )	767	3,360
Michigan.....	15	1,025	2,516	930	1,775	2,037	4,012	( <sup>2</sup> )	(D)	(D)
West North Central.....	46	2,617	6,280	2,305	4,313	4,818	9,612	( <sup>2</sup> )	1,406	4,978
Minnesota.....	13	1,057	2,786	934	1,802	2,217	3,900	( <sup>2</sup> )	739	3,242
Iowa.....	7	315	779	245	459	513	1,128	( <sup>2</sup> )	(D)	(D)
Missouri.....	18	867	1,997	770	1,324	1,444	3,663	( <sup>2</sup> )	(D)	(D)
South Atlantic.....	88	6,626	12,853	6,233	11,492	11,150	18,550	593	(D)	(D)
Maryland.....	10	637	1,167	605	1,015	1,032	1,640	( <sup>2</sup> )	377	874
Virginia.....	16	1,715	3,355	1,652	3,245	3,066	4,015	( <sup>2</sup> )	325	439
North Carolina.....	18	1,902	3,488	1,780	3,148	3,057	4,892	( <sup>2</sup> )	(D)	(D)
South Carolina.....	8	822	1,514	792	1,443	1,343	2,935	( <sup>2</sup> )	(D)	(D)
Georgia.....	14	652	1,333	592	1,156	1,080	2,177	( <sup>2</sup> )	(D)	(D)
Florida.....	16	291	745	267	497	589	1,274	( <sup>2</sup> )	142	343
East South Central.....	16	1,175	2,025	1,122	1,711	1,698	3,083	( <sup>2</sup> )	(D)	(D)
Mississippi.....	4	419	898	394	607	728	1,022	( <sup>2</sup> )	(D)	(D)
West South Central.....	74	3,125	5,774	2,901	5,250	4,769	10,135	( <sup>2</sup> )	(D)	(D)
Texas.....	60	2,816	5,291	2,623	4,786	4,386	9,519	( <sup>2</sup> )	1,653	3,845
West.....	153	3,235	7,966	2,934	5,008	6,773	12,897	( <sup>2</sup> )	1,545	5,357
California.....	137	2,903	7,227	2,629	4,480	6,154	11,883	( <sup>2</sup> )	(D)	(D)
Fur goods (S.I.C. Group 237), total <sup>3</sup> .....	1,972	9,783	42,833	7,994	13,935	33,915	74,755	( <sup>2</sup> )	16,190	122,821
Miscellaneous apparel (S.I.C. Group 238), total.....	1,804	64,333	163,381	57,402	100,723	125,202	266,605	4,991	57,793	217,248
New England.....	146	7,265	18,403	6,589	11,317	14,657	29,677	( <sup>2</sup> )	4,834	16,140
New Hampshire.....	5	112	201	96	162	154	272	( <sup>2</sup> )	(D)	(D)
Massachusetts.....	95	5,144	13,182	4,619	7,993	10,465	20,839	( <sup>2</sup> )	3,272	11,100
Rhode Island.....	7	542	1,093	516	856	1,003	1,911	( <sup>2</sup> )	310	1,019
Connecticut.....	14	1,078	2,877	1,001	1,714	2,299	4,779	( <sup>2</sup> )	861	3,424

See footnotes at end of table.



## APPAREL AND RELATED PRODUCTS

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Table 2.—GENERAL STATISTICS FOR INDUSTRY GROUPS BY REGIONS AND STATES: 1954 AND 1947—Continued

(For explanation of column captions see Introduction)

Industry group, region, and State <sup>1</sup>	1954								1947	
	Number of establish- ments	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
		Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
Miscellaneous apparel (S.I.C. Group 238)—Continued										
Middle Atlantic.....	1,186	33,320	89,389	29,628	51,035	67,339	150,974	1,407	29,920	123,839
New York.....	985	24,179	67,686	21,269	36,507	50,112	116,171	976	22,284	98,357
New Jersey.....	110	3,950	9,365	3,691	6,303	7,995	13,775	( <sup>2</sup> )	3,799	13,954
Pennsylvania.....	91	5,190	12,337	4,668	8,224	9,232	21,027	( <sup>2</sup> )	3,837	11,528
East North Central.....	182	9,757	25,289	8,584	15,698	19,201	39,941	( <sup>2</sup> )	10,421	35,104
Ohio.....	33	1,609	3,817	1,445	2,675	3,006	6,230	( <sup>2</sup> )	2,293	6,756
Indiana.....	22	1,683	3,977	1,529	2,767	3,283	6,024	( <sup>2</sup> )	1,399	3,944
Illinois.....	73	3,813	9,375	3,391	6,186	7,249	14,265	( <sup>2</sup> )	3,992	14,800
Michigan.....	26	1,043	3,258	879	1,566	2,206	6,114	( <sup>2</sup> )	968	3,531
Wisconsin.....	28	1,608	4,861	1,337	2,502	3,455	7,307	( <sup>2</sup> )	1,769	6,073
West North Central.....	47	2,262	5,005	1,990	3,423	3,867	7,285	( <sup>2</sup> )	4,274	14,919
Minnesota.....	10	427	1,081	336	536	720	1,631	( <sup>2</sup> )	829	3,117
Missouri.....	23	1,200	2,518	1,109	1,886	2,115	3,739	( <sup>2</sup> )	2,493	9,344
South Atlantic.....	52	4,529	8,803	4,113	7,393	7,249	12,535	1,035	4,141	13,203
Maryland.....	5	188	484	174	342	390	554	( <sup>2</sup> )	272	686
North Carolina.....	11	1,375	2,744	1,275	2,152	2,200	3,951	565	1,044	3,813
South Carolina.....	8	368	623	340	579	527	899	(D)	(D)	(D)
Georgia.....	19	1,650	3,027	1,564	2,774	2,712	4,033	( <sup>2</sup> )	2,119	6,584
East South Central.....	18	2,814	4,927	2,684	4,834	4,418	8,346	514	1,334	3,124
Alabama.....	4	1,103	1,872	1,044	1,888	1,654	2,713	( <sup>2</sup> )	(D)	(D)
Mississippi.....	7	1,032	1,784	1,012	1,933	1,705	3,828	( <sup>2</sup> )	(D)	(D)
West South Central.....	45	1,696	3,888	1,464	2,826	2,691	5,389	( <sup>2</sup> )	619	1,821
Oklahoma.....	6	124	309	98	188	173	537	( <sup>2</sup> )	(D)	(D)
Texas.....	31	1,422	3,325	1,224	2,406	2,293	4,589	( <sup>2</sup> )	597	1,713
Mountain.....	19	384	695	357	524	578	1,727	( <sup>2</sup> )	91	155
Colorado.....	10	219	420	206	356	375	896	( <sup>2</sup> )	(D)	(D)
Pacific.....	109	2,303	6,981	1,989	3,670	5,198	10,727	( <sup>2</sup> )	2,159	8,873
California.....	96	1,872	6,056	1,604	2,996	4,448	9,407	( <sup>2</sup> )	1,546	7,097
Fabricated textiles, n.e.c. (S.I.C. Group 239), total...	7,274	134,560	381,319	116,371	215,490	278,889	626,928	23,586	126,663	528,427
New England.....	450	11,159	29,556	9,703	17,808	21,657	49,791	1,574	9,990	47,147
Massachusetts.....	299	7,784	20,197	6,786	12,266	14,581	34,013	1,234	336	24,206
Rhode Island.....	33	813	2,135	699	1,353	1,522	4,629	( <sup>2</sup> )	(D)	(D)
Connecticut.....	77	1,591	4,431	1,360	2,581	3,232	5,598	( <sup>2</sup> )	1,047	5,039
Middle Atlantic.....	4,112	59,818	171,010	52,644	96,074	127,275	287,113	5,418	53,243	229,707
New York.....	2,766	42,347	119,908	37,226	66,848	88,658	199,399	2,993	38,243	163,144
New Jersey.....	1,003	10,160	31,876	9,016	17,065	24,186	54,660	1,802	8,256	41,674
Pennsylvania.....	343	7,310	19,226	6,402	12,161	14,431	33,054	623	6,744	24,889
East North Central.....	922	18,866	62,516	15,233	29,267	42,485	100,417	8,583	16,182	71,539
Ohio.....	219	4,545	14,160	3,661	6,935	9,595	22,721	777	3,802	15,803
Indiana.....	80	1,696	5,202	1,401	2,718	3,598	7,700	( <sup>2</sup> )	1,342	5,511
Illinois.....	390	7,034	21,603	5,681	10,850	13,922	36,323	1,307	7,120	33,046
Michigan.....	150	4,367	17,931	3,541	6,964	13,111	27,249	5,986	2,649	11,746
Wisconsin.....	83	1,222	3,619	947	1,799	2,257	6,421	( <sup>2</sup> )	1,269	5,428
West North Central.....	284	7,319	21,429	5,980	11,380	14,578	32,661	1,801	7,127	26,297
Minnesota.....	58	1,368	3,994	1,096	2,051	2,687	7,132	( <sup>2</sup> )	1,297	4,458
Iowa.....	31	1,005	2,896	806	1,602	1,895	4,515	( <sup>2</sup> )	796	2,597
Missouri.....	140	3,858	11,383	3,212	6,037	7,846	16,051	1,309	3,943	14,062
Nebraska.....	16	393	1,249	299	596	802	2,260	( <sup>2</sup> )	461	2,341
Kansas.....	35	679	1,881	555	1,072	1,326	2,665	( <sup>2</sup> )	573	2,646
South.....	790	27,110	66,026	24,197	44,893	50,997	108,804	4,233	33,161	122,563
Delaware.....	11	156	339	143	273	259	462	( <sup>2</sup> )	(D)	(D)
District of Columbia...	15	145	354	127	228	245	611	( <sup>2</sup> )	(D)	(D)
Virginia.....	60	2,370	7,084	2,052	3,911	5,178	11,499	( <sup>2</sup> )	3,422	11,628
West Virginia.....	8	237	436	219	283	303	540	( <sup>2</sup> )	(D)	(D)
Kentucky.....	29	874	1,811	783	1,404	1,420	2,274	( <sup>2</sup> )	(D)	(D)
Tennessee.....	51	2,440	5,814	2,139	4,210	4,357	11,388	( <sup>2</sup> )	2,256	9,022
Alabama.....	41	1,509	3,187	1,394	2,592	2,647	6,542	( <sup>2</sup> )	1,952	6,578
Louisiana.....	29	1,177	2,823	976	1,695	1,992	3,654	978	1,378	4,729
Texas.....	138	2,674	6,130	2,303	4,308	4,338	8,915	( <sup>2</sup> )	2,790	12,940
Mountain.....	80	723	1,804	603	1,104	1,297	3,205	( <sup>2</sup> )	585	1,521
Colorado.....	32	446	1,143	384	707	819	1,961	( <sup>2</sup> )	386	1,245
Utah.....	13	112	256	86	153	179	513	( <sup>2</sup> )	23	(D)

See footnotes at end of table.

## MANUFACTURES—INDUSTRY STATISTICS

Table 2.—GENERAL STATISTICS FOR INDUSTRY GROUPS BY REGIONS AND STATES: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Industry group, region, and State <sup>1</sup>	1954								1947	
	Number of establish- ments	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
		Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
Fabricated textiles, n.e.c. (S.I.C. Group 239)—Con.										
Pacific.....	636	9,562	28,976	8,008	14,960	20,597	44,934	1,869	6,375	29,355
Washington.....	58	811	2,417	664	1,243	1,817	3,774	( <sup>2</sup> )	637	2,600
Oregon.....	33	768	2,445	622	1,229	1,708	3,980	( <sup>2</sup> )	463	2,001
California.....	545	7,982	24,113	6,721	12,486	17,071	37,179	1,594	5,275	24,754

NOTE: Detailed figures may not add to the totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>Each producing state not shown separately has been withheld either (a) to avoid disclosing figures for individual companies; or (b) because the state had less than 100 employees in the industry group. Such state figures are included, however, in the appropriate regional and United States totals.<sup>2</sup>Less than \$500 thousand.<sup>3</sup>This industry sub-group consists of a single four-digit industry. Detailed data by state are included in the four-digit industry tables.

Table 3.—DETAILED STATISTICS FOR THE INDUSTRY GROUP: 1954

(For explanation of line captions see Introduction)

Item	Major industry group 23	Item	Major industry group 23
Number of establishments, total.....	31,372	Cost and quantity of purchased fuel and electricity—Con.	
With 1-19 employees.....	18,092	Electric energy:	
With 20-99 employees.....	10,691	Purchased:	
With 100 employees and over.....	2,589	Quantity.....million kwh..	915
All employees:		Cost.....\$1,000..	23,538
Number (average for year).....	1,190,064	Generated.....million kwh..	...
Payroll.....\$1,000..	3,201,795	Sold:	
Production workers:		Quantity.....do....	...
Number (average for year).....	1,069,867	Value.....\$1,000..	...
Man-hours.....1,000..	1,898,999	Manufacturers' inventories:	
Wages.....\$1,000..	2,521,135	Beginning of year, total.....do....	1,555,236
Value added by manufacture.....do....	5,147,371	Finished products.....do....	670,329
Value added by resales.....do....	67,577	Work-in-process.....do....	268,671
Number of employees for selected months:		Materials, supplies, fuel, etc.....do....	616,179
March.....	1,212,203	End of year, total.....do....	1,464,097
May.....	1,136,009	Finished products.....do....	629,437
August.....	1,197,005	Work-in-process.....do....	260,162
November.....	1,214,969	Materials, supplies, fuel, etc.....do....	574,415
Cost and quantity of purchased fuel and electricity:		Expenditures for plant and equipment:	
Fuels consumed, total cost.....\$1,000..	10,703	Capital expenditures, new.....do....	76,552
Bituminous coal and anthracite:		New structures and additions to plant.....do....	22,504
Quantity.....1,000 short tons..	(NA)	New machinery and equipment.....do....	54,048
Value.....\$1,000..	(NA)	Expenditures for used plant and equipment.....do....	14,774
Coke:		Horsepower rating of power equipment at end of 1954:	
Quantity.....1,000 short tons..	(NA)	Total horsepower of prime movers and electric	
Value.....\$1,000..	(NA)	motors driven by purchased energy.....1,000 hp..	(1)
Fuel oil:		Engines, etc., driving electric generators.....do....	(1)
Quantity.....1,000 barrels..	(NA)	Engines, etc., not driving electric	
Value.....\$1,000..	(NA)	generators.....do....	(1)
Gas:		Electric motors driven by purchased energy.....do....	(1)
Quantity.....million cubic feet..	(NA)	Electric motors driven by energy generated at the	
Value.....\$1,000..	(NA)	establishment.....do....	...
Other fuels:			
Value.....do....	(NA)		

Note: Detailed figures may not add to totals because of independent rounding.

NA Not available.

<sup>1</sup>Less than 500.

## Men's and Boys' Suits, Coats, and Overcoats

This report shows 1954 Census of Manufactures statistics for establishments classified in each of the following industries:

<u>Code</u>	<u>Title</u>
2311	Men's and Boys' Suits and Coats
2312	Suit and Coat Findings

**2311 - Men's and Boys' Suits and Coats** (Full Standard Industrial Classification title: Men's, Youths', and Boys' Suits, Coats, and Overcoats)

This industry comprises establishments primarily engaged in manufacturing men's, youths', boys' suits, coats, and overcoats. Establishments primarily engaged in manufacturing uniforms (military, policemen's, firemen's, etc.) and tailored dress and sport coats, including sport and leisure jackets, are also included in this industry. Establishments primarily engaged in manufacturing men's work and sport garments (such as lumber-jackets, ski suits, and riding garments) are classified in Group 232, Men's and Boys' Furnishings, Work Clothing and Allied Garments. For a detailed list of primary products of Industry 2311, refer to Table 6A, product codes 2311111 to 2311375.

The value of products of Industry 2311, Men's and Boys' Suits and Coats, in 1954 totaled \$1,141 million. This included the production of primary products (men's and boys' suits and coats) valued at \$894 million, production of secondary products valued at \$92 million, and miscellaneous receipts (mainly contract work on materials owned by others) of \$155 million.

Industry 2311 output of men's and boys' suits and coats in 1954 represented 91 percent of its total products made (primary and secondary). In 1947, this primary product specialization ratio was 92 percent. Secondary products made by Industry 2311 in 1954 consisted mainly of men's and boys' separate trousers, except work, \$59 million, and men's and boys' apparel, n.e.c. \$11 million.

Industry 2311 output of men's and boys' suits and coats in 1954 represented 96 percent of these products valued at \$927 million, made by all industries. This coverage ratio in 1947 was 97.

The Bureau of the Census publishes current monthly data on the cuttings of men's suits, coats, trousers, and furnishings in Facts for Industry Series M67B, *Men's Apparel*. Annual figures covering the production of boys' apparel and additional items of men's apparel are also published in the annual summaries of

this series. Differences between the 1954 Census production figures shown in Table 6A and the twelve monthly estimates for 1954 shown in the Facts for Industry reports for men's suits and outer coats are due primarily to inconsistent and inadequate reporting by the same respondent manufacturer on the monthly questionnaire and on the 1954 Census questionnaire (see footnote to Table 6A), and to a much lesser extent to the effect of sampling variations in the current monthly estimates. In addition, some of the discrepancy can be attributed to the conceptual differences between the 1954 monthly estimates which are based on reports from the "cutter" of the material (irrespective of ownership) and the 1954 Census figures which are based on reports from the owners of the materials and the finished garments.

### 2312 - Suit and Coat Findings

This industry comprises establishments primarily engaged in manufacturing suit and coat findings such as coat fronts, interlinings, collar linings, trouser waistbands, and shoulder pads, or in making buttonholes for men's, youths', and boys' coats and suits.

The value of products of Industry 2312, Suit and Coat Findings, in 1954 totaled \$28 million. This included the production of primary products (suits and coat findings) valued at \$26 million, negligible output of secondary products, and miscellaneous receipts (mainly contract work on materials owned by others) of \$2 million.

Industry 2312 output of coats and suit findings in 1954 represented 98 percent of its total products made (primary and secondary). In 1947, this primary product specialization ratio was 99 percent.

Industry 2312 output of coat and suit findings in 1954 represented 95 percent of these products, valued at \$27 million, made by all industries. This coverage ratio in 1947 was 99. In this connection it should be noted that the output of coat and suit findings made and used in establishments which are primarily engaged in the manufacture of completed apparel items are not included in the figures shown for this industry.

Separate 1954 Census figures for the Coat and Suit Findings Industry, by type of establishment ("Manufacturers," "Jobbers," and "Contractors") are not shown in the detailed tables of this report since most establishments classified in Industry 2312 operate as "manufacturers."



The general statistics (employment, payrolls, value of shipments, cost of materials, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products, and, for that matter, their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (Tables 1-4) with product statistics (Table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in Table 5A which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry made as secondary products by establishments classified in other industries.

Table 1.—GENERAL STATISTICS FOR THE UNITED STATES: 1954 AND EARLIER YEARS  
(For explanation of column captions see Introduction)

Industry and census year	Establishments, number	All employees		Production workers		Value added by manufacture <sup>2</sup> (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments <sup>3</sup> (\$1,000)
		Number <sup>1</sup>	Payroll (\$1,000)	Number <sup>1</sup>	Wages (\$1,000)			
Men's and boys' suits and coats (S.I.C. 2311)								
1954.....	1,310	119,001	374,795	106,720	301,062	536,880	603,850	1,140,751
1953 <sup>4</sup> .....	(NA)	129,190	407,415	115,695	329,576	585,164	627,314	1,232,478
1952 <sup>4</sup> .....	(NA)	124,326	370,154	110,518	297,881	543,665	621,690	1,165,355
1951 <sup>4</sup> .....	(NA)	135,944	399,323	121,682	323,626	576,894	685,704	1,262,598
1950 <sup>4</sup> .....	(NA)	150,580	418,434	134,472	340,460	572,534	668,670	1,241,204
1948 <sup>4</sup> .....	(NA)	132,459	359,142	117,420	286,759	563,570	597,673	1,161,243
1947.....	1,814	147,099	397,151	133,181	332,007	660,206	752,576	1,412,782
1939 <sup>5</sup> .....	1,848	(NA)	(NA)	116,852	123,326	236,511	309,400	545,911
Suit and coat findings (S.I.C. 2312):								
1954.....	116	2,684	7,685	2,414	6,097	11,288	16,703	27,991
1947.....	156	4,017	9,153	3,681	7,411	16,741	22,531	39,272
1939 <sup>5</sup> .....	112	(NA)	(NA)	2,747	2,217	4,170	5,233	9,403

NA Not available.

<sup>1</sup>For the period 1949-1954, figures are based on employment for the payroll periods ending nearest the 15th of March, May, August and November. For 1947, they represent the average of 12 monthly figures. For earlier years, the production worker average was calculated as in 1947, but the figure for all employees represents the sum of the annual average number of production workers and the number of nonproduction workers reported for one payroll period (usually in October).

<sup>2</sup>Value of products less cost of materials, supplies, fuel, electric energy and contract work. See Introduction, "Value Added by Manufacture."

<sup>3</sup>For 1947 and 1954, value of products made; for all other years, value of shipments. See Introduction, "Value Added by Manufacture."

<sup>4</sup>The figures for 1949-1953 represent estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period. Estimates with a standard error in excess of 15 percent generally have been omitted from this table.

<sup>5</sup>No comparable figures are available for prior years.

## MEN'S AND BOYS' SUITS, COATS, AND OVERCOATS

23A-3

Table 2.—GENERAL STATISTICS BY REGIONS AND STATES: 1964 AND 1947  
(For explanation of column captions see Introduction)

Industry, region, and State <sup>1</sup>	1954											1947	
	Establishments, number		All employees		Production workers			Value added by manufacture	Cost of materials, etc.	Value of shipments <sup>2</sup>	Capital expenditures, new	All employees, number	Value added by manufacture
	Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)		(\$1,000)
Men's and boys' suits and coats (S.I.C. 2311), total <sup>3</sup> .....	1,310	687	119,001	374,795	106,720	187,579	301,062	536,880	603,850	1,140,731	3,466	147,099	660,206
New England.....	104	54	6,766	21,357	6,097	10,683	17,187	28,629	27,840	56,469	(D)	9,453	36,513
Massachusetts.....	96	49	6,499	20,644	5,852	10,222	16,574	27,753	27,551	55,305	252	8,997	(D)
Middle Atlantic.....	797	390	63,588	210,431	57,732	102,711	173,167	304,145	356,110	660,255	1,237	81,309	385,783
New York.....	537	217	33,969	120,142	30,346	54,546	96,468	181,358	226,203	407,562	588	47,788	252,363
New Jersey.....	82	59	7,287	21,330	6,889	11,854	18,960	26,029	15,891	41,921	102	10,675	(D)
Pennsylvania.....	178	114	22,331	68,959	20,497	36,310	57,738	96,757	114,015	210,772	546	22,846	(D)
East North Central.....	143	78	20,212	62,724	17,343	29,016	47,340	84,317	74,047	158,364	(D)	26,456	(D)
Ohio.....	38	32	7,731	24,169	6,776	11,475	18,641	32,080	38,238	70,318	592	10,417	46,975
Indiana.....	4	4	1,493	3,544	1,398	2,453	3,219	4,302	956	5,258	93	1,729	5,675
Illinois.....	89	38	10,642	33,987	8,858	14,513	24,631	46,676	33,853	80,529	(D)	13,266	(D)
Michigan.....	5	...	43	174	42	99	166	215	412	628	5	189	702
Wisconsin.....	7	4	301	849	267	476	682	1,043	587	1,630	5	855	2,960
West North Central.....	36	28	3,622	10,987	3,267	5,913	8,676	17,739	18,875	36,615	118	(D)	(D)
Minnesota.....	13	9	612	2,097	550	1,036	1,584	2,693	3,350	6,043	(D)	815	3,419
Iowa.....	4	3	274	629	246	367	520	710	609	1,319	(D)	(D)	(D)
Missouri.....	19	16	2,735	8,261	2,471	4,510	6,571	14,336	14,916	29,253	67	2,354	(D)
South and West.....	230	137	24,812	69,293	22,278	39,253	54,691	102,048	126,976	229,026	806	26,337	106,005
Maryland.....	97	53	8,053	23,497	6,845	11,859	17,884	38,859	67,659	106,519	203	8,514	37,137
Virginia.....	7	5	1,974	5,262	1,881	3,228	4,664	6,148	4,771	10,920	68	2,534	15,515
Tennessee.....	6	6	1,835	3,580	1,700	2,744	3,009	3,537	6,912	10,450	35	1,861	(D)
Louisiana.....	7	6	1,224	2,863	1,078	1,785	1,893	4,341	4,111	8,453	37	1,706	4,938
"Manufacturers" (S.I.C. 2311 Pt. A) total.....	440	285	67,795	219,556	60,449	109,125	174,429	309,702	300,237	609,940	2,290		
New England.....	53	31	4,903	15,951	4,371	7,579	12,546	22,049	23,121	45,170	203		
Middle Atlantic.....	189	105	27,890	97,888	25,228	47,156	80,365	143,161	140,238	283,400	522		
New York.....	124	63	17,223	62,267	15,492	29,494	51,448	92,115	81,434	173,549	283		
New Jersey.....	14	8	2,189	6,831	2,007	3,683	5,646	7,847	11,116	18,964	26		
Pennsylvania.....	51	34	8,476	28,790	7,728	13,978	23,270	43,199	47,687	90,886	212		
East North Central.....	65	47	16,381	51,759	13,980	23,845	38,737	66,124	58,009	124,134	877		
Ohio.....	26	23	6,805	20,836	5,973	10,130	16,441	25,395	29,629	55,024	524		
Illinois.....	32	21	8,960	29,713	7,432	12,653	21,300	38,945	27,056	66,002	291		
West North Central.....	31	25	3,282	10,142	2,931	5,404	7,843	15,466	15,775	31,242	113		
Iowa.....	4	3	274	629	246	367	520	710	609	1,319	(D)		
South Atlantic.....	33	26	5,547	16,904	5,047	9,263	13,551	24,889	26,539	51,428	208		
Maryland.....	21	18	2,765	8,848	2,412	4,262	6,934	13,201	15,046	28,247	104		
Georgia.....	4	3	1,678	4,757	1,595	3,082	3,799	7,471	6,541	14,013	49		
East South Central.....	11	10	5,107	12,692	4,684	8,379	10,462	18,119	19,932	38,051	194	(NA)	(NA)
West South Central.....	13	10	1,670	4,042	1,486	2,584	2,672	5,914	5,560	11,475	54		
Texas.....	6	4	448	1,180	407	790	796	1,629	1,389	3,018	18		
West.....	45	31	3,012	10,175	2,720	4,913	8,249	13,977	11,060	25,038	116		
California.....	39	27	2,607	9,010	2,352	4,157	7,333	12,228	9,286	21,515	104		
"Jobbers" (S.I.C. 2311 Pt. B) total.....	365	66	7,673	35,507	4,772	8,083	15,791	82,261	278,891	361,153	346		
New England.....	16	1	97	415	51	55	86	715	3,596	4,311	(D)		
Middle Atlantic.....	290	50	4,929	24,848	3,068	5,090	11,095	54,501	197,880	252,382	(D)		
New York.....	243	34	3,506	18,131	2,236	3,681	8,151	38,975	135,556	174,532	145		
North Central.....	19	5	861	3,273	667	1,127	1,902	8,975	17,150	26,125	47		
Ohio.....	4	3	464	2,156	348	649	1,061	5,368	8,569	13,938	34		
South.....	32	9	1,694	6,615	917	1,678	2,479	17,035	57,745	74,780	32		
Maryland.....	30	8	1,614	5,658	885	1,602	2,369	15,213	50,865	66,079	24		
Pacific.....	8	1	91	356	68	135	227	1,033	2,520	3,553	...		

See footnotes at end of table.

## MANUFACTURES - INDUSTRY STATISTICS

Table 2.—GENERAL STATISTICS BY REGIONS AND STATES: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Industry, region, and State <sup>1</sup>	1954											1947	
	Establishments, number		All employees		Production workers			Value added by manufacture	Cost of materials, etc.	Value of shipments <sup>2</sup>	Capital expenditures, new	All employees, number	Value added by manufacture
	Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)		(\$1,000)
"Contractors" (S.I.C. 2311 Pt. C), total.....	491	322	40,723	111,430	39,006	66,083	103,798	130,590	15,978	146,568	829		
New England.....	35	22	1,765	4,990	1,674	3,049	4,553	5,864	1,122	6,987	(D)		
Massachusetts.....	29	18	1,562	4,515	1,484	2,691	4,129	5,315	1,038	6,354	40		
Middle Atlantic.....	308	225	28,555	80,979	27,496	46,708	76,061	95,536	11,095	106,632	(D)		
New York.....	166	116	11,631	34,320	11,168	18,746	32,260	40,828	3,005	43,833	159		
New Jersey.....	62	48	4,862	13,699	4,684	7,835	12,845	16,626	1,927	18,554	(D)	(NA)	(NA)
Pennsylvania.....	80	61	12,061	32,960	11,643	20,126	30,955	38,081	6,162	44,244	228		
North Central, South and West.....	148	75	10,401	25,460	9,834	16,324	23,181	29,188	3,758	32,948	326		
Ohio.....	8	6	462	1,177	455	695	1,139	1,316	39	1,355	33		
Illinois.....	41	14	1,177	2,930	1,018	1,574	2,317	3,578	890	4,469	51		
California.....	21	6	372	1,025	355	569	961	1,347	231	1,578	8		
Suit and coat findings (S.I.C. 2312), total.....	116	52	2,684	7,685	2,414	4,356	6,097	11,288	16,703	27,991	95	4,017	16,741
New England.....	6	2	120	263	115	190	231	458	711	1,170	(D)	187	870
Middle Atlantic.....	83	34	1,925	5,653	1,740	3,058	4,510	8,408	11,841	20,250	59	3,095	12,562
New York.....	59	20	1,064	3,355	933	1,643	2,540	5,513	8,031	13,544	22	1,658	7,943
Pennsylvania.....	20	13	782	2,142	735	1,313	1,830	2,693	3,683	6,376	36	(D)	(D)
East North Central.....	15	7	220	600	188	335	458	888	1,413	2,302	(D)	(D)	(D)
Illinois.....	9	5	159	452	136	255	348	674	1,287	1,962	(D)	(D)	(D)
South and West.....	12	9	418	1,167	370	771	898	1,532	2,736	4,269	27	340	1,356
Maryland.....	5	4	214	550	198	400	454	613	1,114	1,727	9	144	530

Note: Detailed figures may not add to the totals because of independent rounding.

<sup>1</sup> D Withheld to avoid disclosing figures for individual companies.<sup>2</sup> General statistics for some producing States are not shown separately in the table (see INTRODUCTION "Confidentiality of Data for Individual Companies"). Such States are shown below with the number of establishments in each State for 1954 and, in parentheses, the number of employees or the employment-size range for that State for 1954:

S.I.C. 2311, Men's and Boy's Suits and Coats: New England—New Hampshire, 1 (20-99); Rhode Island, 2 (20-99); Connecticut, 5 (100-249); South and West—Delaware, 1 (100-249); North Carolina, 1 (1-19); South Carolina, 2 (100-249); Georgia, 6 (1,000-2,499); Florida, 4 (20-99); Kentucky, 9 (2,500-4,999); Alabama, 1 (100-249); Mississippi, 1 (250-499); Oklahoma, 1 (20-99); Texas, 10 (500-999); Colorado, 2 (20-99); Utah, 2 (100-249); Washington, 5 (100-249); Oregon, 1 (20-99); California, 67 (2,500-4,999).

S.I.C. 2311-A, Manufacturers: New England—Massachusetts, 52 (2,500-4,999); Connecticut, 1 (20-99); East North Central—Indiana, 1 (250-499); Michigan, 3 (20-99); Wisconsin, 3 (100-249); West North Central—Minnesota, 12 (500-999); Missouri, 15 (1,000-2,499); South Atlantic—Virginia, 4 (1,000-2,499); North Carolina, 1 (1-19); South Carolina, 1 (1-19); Florida, 2 (20-99); East South Central—Kentucky, 7 (2,500-4,999); Tennessee, 4 (1,000-2,499); West South Central—Louisiana, 6 (1,000-2,499); Oklahoma, 1 (20-99); West—Colorado, 1 (1-19); Utah, 2 (100-249); Pacific—Washington, 3 (100-249).

S.I.C. 2311-B, Jobbers: New England—Massachusetts, 15 (20-99); Rhode Island, 1 (1-19); Middle Atlantic—New Jersey, 4 (20-99); Pennsylvania, 43 (1,000-2,499); North Central—Illinois, 14 (100-249); Missouri, 1 (250-499); South—Georgia, 1 (20-99); Texas, 1 (1-19); Pacific—Washington, 1 (1-19); California, 7 (20-99).

S.I.C. 2311-C, Contractors: New England—New Hampshire, 1 (20-99); Rhode Island, 1 (20-99); Connecticut, 4 (100-249); North Central, South and West—Indiana, 3 (1,000-2,499); Michigan, 2 (1-19); Wisconsin, 4 (100-249); Minnesota, 1 (1-19); Missouri, 3 (20-99); Delaware, 1 (100-249); Maryland, 45 (2,500-4,999); Virginia, 3 (500-999); South Carolina, 1 (100-249); Georgia, 1 (500-999); Florida, 2 (20-99); Kentucky, 2 (500-999); Tennessee, 2 (100-249); Alabama, 1 (100-249); Mississippi, 1 (250-499); Louisiana, 1 (20-99); Texas, 3 (20-99); Colorado, 1 (20-99); Washington, 1 (1-19).

S.I.C. 2312, Suit and Coat Findings: New England—Massachusetts, 5 (100-249); Connecticut, 1 (1-19); Middle Atlantic—New Jersey, 4 (20-99); East North Central—Ohio, 6 (20-99); South and West—Georgia, 1 (20-99); Kentucky, 1 (20-99); Tennessee, 1 (20-99); Texas, 1 (20-99); Oregon, 1 (1-19); California, 2 (20-99).

<sup>3</sup> For these industries, the figures represent value of products made.<sup>4</sup> Includes 14 establishments with 2,810 employees, \$23,069 thousand value of shipments and \$14,326 thousand value added by manufacture which are not included in the separate totals for manufacturers, jobbers, or contractors.



## MEN'S AND BOYS' SUITS, COATS, AND OVERCOATS

23A-5

Table 3.—DETAILED STATISTICS FOR THE UNITED STATES: 1954

(For explanation of line captions see Introduction)

Item	Men's and boys' suits and coats (S.I.C. 2311)						Men's and boys' suit and coat findings (S.I.C. 2312)	
	Total <sup>1</sup>	"Manufacturers" (S.I.C. 2311 Pt. A)		"Jobbers" (S.I.C. 2311 Pt. B)		"Contractors" (S.I.C. 2311 Pt. C)	All establishments	Establishments with 90% or more primary product specialization
		All establishments	Establishments with 90% or more primary product specialization	All establishments	Establishments with 90% or more primary product specialization			
Primary product specialization ratio <sup>2</sup> .....	91	(NA)	xxx	(NA)	xxx	(NA)	98	xxx
Coverage ratio <sup>3</sup> .....	96	(NA)	xxx	(NA)	xxx	(NA)	95	xxx
Number of establishments, total.....	1,310	440	324	365	295	491	116	90
With 1-19 employees.....	623	155	137	299	245	169	64	49
With 20-99 employees.....	402	148	100	53	41	196	50	40
With 100 employees and over.....	285	137	87	13	9	126	2	1
All employees:								
Number (average for year).....	119,001	67,795	49,328	7,673	5,564	40,723	2,684	1,989
Payroll.....\$1,000...	374,795	219,556	164,552	35,507	26,863	111,430	7,685	6,153
Production workers:								
Number (average for year).....	106,720	60,449	43,883	4,772	3,576	39,006	2,414	1,761
Man-hours.....1,000...	187,579	109,125	79,244	8,083	5,900	66,083	4,356	3,138
Wages.....\$1,000...	301,062	174,429	130,005	15,791	12,087	103,798	6,097	4,723
Value added by manufacture.....do...	536,880	309,702	224,731	82,261	58,299	130,590	11,288	9,431
Cost of materials, etc.....do...	603,850	300,237	218,952	278,891	213,379	15,978	16,703	15,706
Value of shipments.....do...	1,140,731	609,940	443,684	361,153	271,670	146,568	27,991	25,138
Value added by resales.....do...	5,303	3,732	1,731	1,373	873	47	42	42
Cost of products bought and resold.....do...	26,944	21,566	16,206	5,106	3,625	271	255	224
Sales of products bought and resold.....do...	32,248	25,299	17,937	6,479	4,499	319	297	267
Total inventories, beginning of year.....do...	216,763	137,876	93,789	67,013	52,339	6,367	2,831	2,541
Total inventories, end of year.....do...	188,486	118,382	80,589	60,507	48,272	5,407	2,890	2,711
Capital expenditures, new.....do...	3,466	2,290	1,852	( <sup>4</sup> )	( <sup>4</sup> )	829	( <sup>4</sup> )	( <sup>4</sup> )
Number of employees for selected months:								
March.....	125,131	70,537	51,145	8,005	5,760	43,025	2,833	2,064
May.....	115,156	65,866	47,134	7,625	5,506	39,042	2,617	1,971
August.....	119,160	68,373	50,748	7,596	5,587	40,569	2,647	1,973
November.....	116,558	66,404	48,284	7,467	5,402	40,255	2,638	1,946
Cost of materials, fuel, electricity and contract work, total.....\$1,000...	603,850	300,237	218,952	278,891	213,379	15,978	16,703	15,706
Materials, parts, containers, and supplies consumed.....do...	454,353	274,891	202,325	159,551	120,670	10,963	16,106	15,149
Fuels consumed <sup>5</sup> .....do...	178	(NA)	(NA)	(NA)	(NA)	(NA)	18	18
Electric energy: <sup>6</sup>								
Purchased:								
Quantity.....million kwh...	56	35	26	9	8	12	1	1
Cost.....\$1,000...	2,307	1,175	854	579	463	514	61	53
Cost of contract work.....do...	147,012	23,211	15,090	118,638	92,173	4,063	518	486
Manufacturers' inventories:								
Beginning of year, total.....do...	216,763	137,876	93,789	67,013	52,339	6,367	2,831	2,541
Finished products.....do...	86,910	53,381	33,683	30,972	23,429	1,260	789	745
Work-in-process.....do...	43,983	28,372	21,710	12,001	9,319	2,240	546	461
Materials, supplies, fuel, etc.....do...	85,865	56,121	38,396	24,039	19,589	2,866	1,495	1,334
End of year, total.....do...	188,486	118,382	80,589	60,507	48,272	5,407	2,890	2,711
Finished products.....do...	78,148	48,590	30,598	27,051	20,348	1,178	787	741
Work-in-process.....do...	37,796	23,702	17,974	11,587	9,361	1,669	595	566
Materials, supplies, fuel, etc.....do...	72,537	46,088	32,015	21,868	18,561	2,559	1,505	1,402
Expenditures for plant and equipment, total.....do...	3,795	2,523	2,077	( <sup>4</sup> )	( <sup>4</sup> )	921	( <sup>4</sup> )	( <sup>4</sup> )
Capital expenditures, new.....do...	3,466	2,290	1,852	( <sup>4</sup> )	( <sup>4</sup> )	829	( <sup>4</sup> )	( <sup>4</sup> )
New structures and additions to plant.....do...	855	672	571	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
New machinery and equipment.....do...	2,609	1,618	1,281	( <sup>4</sup> )	( <sup>4</sup> )	693	( <sup>4</sup> )	( <sup>4</sup> )
Expenditures for used plant and equipment.....do...	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )

Note: Data for establishments with 90% or more specialization are not shown for Industry 2311 as a whole since specialization ratios for contractors were not computed. Such ratios would not be meaningful since they could relate to only a minor portion of the contractors' total activity, that is, production on own account from materials owned by them, and would not be representative of the activity of those establishments as a whole.

xxx Not applicable.

NA Not available.

<sup>1</sup>Includes 14 establishments with 2,810 employees, \$23,069 thousand value of shipments and \$14,326 thousand value added by manufacture which are not included in the separate totals for manufacturers, jobbers, or contractors.

<sup>2</sup>The specialization ratio compares the given industry's shipments of its primary products to its total shipments of all products. (The primary products are listed in Tables 5B and 6A; the first 4-digits of the product code represent the industry code to which the product is primary.)

<sup>3</sup>The coverage ratio measures the extent to which the total shipments of products primary to the given industry are shipped by establishments classified in that industry.

<sup>4</sup>Less than \$500 thousand.

<sup>5</sup>Detail on consumption by type of fuel was not collected for these industries.

<sup>6</sup>Information on the amount of electric energy generated and/or sold was not collected for these industries.

## MANUFACTURES - INDUSTRY STATISTICS

Table 4.—SELECTED STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR THE UNITED STATES: 1954

(Value figures in thousands of dollars. For explanation of line captions see Introduction. Data which cannot be shown without disclosing information for individual companies have been combined with figures for other size classes. A (D) appears in the column where the figure has been omitted and the combined figure is underlined and shown in the size-class to the left)

Ind. code	Industry and item	Total, all establishments	Establishments with an average of—									
			1-4 em-employees	5-9 em-employees	10-19 em-employees	20-49 em-employees	50-99 em-employees	100-249 employees	250-499 employees	500-999 employees	1,000-2,499 employees	2,500 employees and over
2311	Men's & boys' suits & coats <sup>1</sup>											
	Number of establishments..	1,310	296	175	152	206	196	172	69	30	13	1
	Number of employees.....	119,001	747	1,227	2,164	6,789	14,177	26,307	23,831	19,769	23,988	(D)
	Value added by manufacture	536,880	5,999	9,586	16,808	33,854	61,707	108,071	108,831	86,614	105,407	(D)
2311	"Manufacturers":											
Pt. A	Number of establishments..	440	85	34	36	73	75	71	36	18	11	1
	Number of employees.....	67,795	186	237	497	2,545	5,433	11,394	13,327	12,548	21,624	(D)
	Value added by manufacture	309,702	1,099	1,382	2,598	11,608	22,062	50,441	62,955	61,948	95,605	(D)
2311	"Jobbers":											
Pt. B	Number of establishments..	365	141	89	69	34	19	6	6	1	...	...
	Number of employees.....	7,673	384	624	1,007	1,049	1,289	3,318	(D)	(D)	...	...
	Value added by manufacture	82,261	4,282	6,928	12,297	12,335	12,648	33,769	(D)	(D)	...	...
2311	"Contractors":											
Pt. C	Number of establishments..	491	70	52	47	99	97	89	25	11	1	...
	Number of employees.....	40,723	176	365	659	3,194	7,040	13,138	8,148	8,000	(D)	...
	Value added by manufacture	130,590	617	1,275	1,913	9,910	24,700	43,803	24,729	23,639	(D)	...
2312	Suit and coat findings:											
	Number of establishments..	116	33	8	23	39	11	2	...	...	...	...
	Number of employees.....	2,684	80	58	313	1,307	925	(D)	...	...	...	...
	Value added by manufacture	11,288	363	195	1,421	5,432	3,875	(D)	...	...	...	...

Note: Detailed figures may not add to the totals because of independent rounding.

<sup>1</sup>Includes 14 establishments with 2,810 employees, \$23,069 thousand value of shipments and \$14,326 thousand value added by manufacture which are not included in the separate totals for manufacturers, jobbers, or contractors.

Table 5A.—INDUSTRY-PRODUCT ANALYSIS—SUMMARY OF INDUSTRY AND PRIMARY PRODUCT SHIPMENTS, SPECIALIZATION RATIOS AND COVERAGE RATIOS FOR THE UNITED STATES: 1954 AND 1947

Industry code	Industry and census year	Value of shipments					Value of primary products shipped			
		Total	Primary products	Secondary products	Miscel- laneous receipts	Primary product speciali- zation ratio <sup>1</sup>  Col. B Col. E Col. B+C (Percent)	Total (made in all industries)	Made in this industry	Made in other industries	Coverage ratio <sup>2</sup>  Col. G Col. F (Percent)
		(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)		(\$1,000)	(\$1,000)	(\$1,000)	
		(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)
2311	Men's & boys' suits & coats...1954..	1,140,731	893,744	92,326	154,661	91	927,149	893,744	33,405	96
	1947..	1,412,782	1,116,080	102,763	193,939	92	1,151,438	1,116,080	35,358	97
2312	Suit and coat findings.....1954..	27,991	25,699	478	1,814	98	27,098	25,699	1,399	95
	1947..	39,272	36,819	390	2,063	99	37,314	36,819	495	99

<sup>1</sup>The specialization ratio compares the given industry's shipments of its primary products to its total shipments of all products. (The primary products are listed in Tables 5B and 6A; the first 4 digits of the product code represent the industry code to which the product is primary.)

<sup>2</sup>The coverage ratio measures the extent to which the total shipments of products primary to the given industry are shipped by establishments classified in that industry.

## MEN'S AND BOYS' SUITS, COATS, AND OVERCOATS

23A-7

Table 5B.—INDUSTRY-PRODUCT ANALYSIS—SHIPMENTS BY PRODUCT CLASS AND INDUSTRY, FOR THE UNITED STATES: 1954

(In thousands of dollars. Each column shows for the industry listed in the column heading, the value of shipments divided among men's and boys' suits, coats and overcoats, other products, and miscellaneous receipts. Each figure represents the amount of the product class shown at the left shipped by the industry listed at the top of the column. The first four digits of the product class codes at the left represent the codes of the industries to which they are primary. All other product classes in a column represent products secondary to the specified industry.)

Prod. class code	Class of products and miscellaneous receipts	Men's and boys' suits and coats (S.I.C. 2311)	Suit and coat findings (S.I.C. 2312)	Separate trousers (S.I.C. 2327)	Men's and boys' clothing, n.e.c. (S.I.C. 2329)	Other industries	All industries
	Value of production.....	1,140,731	27,991	xxx	xxx	xxx	xxx
231--	Men's and boys' suits, coats, and overcoats; and suit and coat findings.....	894,001	25,860	11,902	9,286	13,198	954,247
23111	Men's and boys' tailored suits.....	628,358	125	6,377	1,010	3,291	639,161
23112	Men's and boys' overcoats and topcoats.....	134,893	...	350	1,574	2,465	139,282
23113	Men's and boys' separate tailored jackets.....	106,883	( <sup>1</sup> )	5,145	6,702	6,209	124,975
23110	Men's and boys' suits and coats, not specified by kind.	23,610	...	( <sup>1</sup> )	...	( <sup>1</sup> )	23,731
23120	Men's and boys' suit and coat findings.....	257	25,699	...	...	1,142	27,098
	Other products.....	92,069	317	xxx	xxx	xxx	xxx
23270	Men's and boys' separate trousers, except work.....	59,411	...	xxx	xxx	xxx	xxx
23292	Men's and boys' heavy outerwear coats and jackets.....	7,534	...	xxx	xxx	xxx	xxx
23293	Men's and boys' outerwear, n.e.c.....	3,824	...	xxx	xxx	xxx	xxx
23372	Women's, misses' and juniors' suits.....	3,233	...	xxx	xxx	xxx	xxx
23850	Raincoats and other waterproof clothing.....	3,662	...	xxx	xxx	xxx	xxx
	All other products.....	14,405	317	xxx	xxx	xxx	xxx
	Miscellaneous receipts.....	154,661	1,814	xxx	xxx	xxx	xxx
	Contract and commission work.....	153,515	1,806	xxx	xxx	xxx	xxx
	Scrap and salable refuse.....	1,038	( <sup>1</sup> )	xxx	xxx	xxx	xxx
	Repair work.....	108	...	xxx	xxx	xxx	xxx

<sup>1</sup>Less than \$100 thousand.



## MANUFACTURES - INDUSTRY STATISTICS

Table 6A.--QUANTITY AND VALUE OF PRODUCTS SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, FOR THE UNITED STATES: 1954 AND 1947

Product code	Product	Garments cut							
		1954						1947	
		Total <sup>1</sup>		From materials owned by establishments classified as--			Cuttings of garments on contract <sup>2</sup>	Quantity	Sales value
		Quantity	Sales value	"Manufacturers"	"Jobbers"	"Contractors"			
		(1,000 units)	(\$1,000)	(1,000 units)	(1,000 units)	(1,000 units)	(1,000 units)	(1,000 units)	(\$1,000)
2311---	Men's and boys' suits and coats, total <sup>3</sup> .....	xxx	927,149	xxx	xxx	xxx	xxx	xxx	1,151,438
23111	Men's and boys' suits, excluding ski, snow, slack, and wash.....	xxx	639,161	xxx	xxx	xxx	xxx	29,321	839,708
2311111	Suits, excluding ski, snow, slack, and wash:								
	Men's regular-weight one-trouser suits, 50 percent or more wool.....	11,288	387,214	6,330	4,651	35	1,752	419,541	4613,718
2311115	Men's regular-weight two-trouser suits, 50 percent or more wool.....	1,198	44,435	1,033	162	3	339	52,191	577,805
2311121	Other regular-weight men's one-trouser suits, including man-made fibers.....	587	12,406	192	390	3	294	(4)	(4)
2311125	Other regular-weight men's two-trouser suits, including man-made fibers.....	211	4,818	126	85	xxx	25	(5)	(5)
2311131	Men's summer-weight suits:								
	50 percent or more wool.....	1,723	59,444	1,112	553	3	258	3,991	92,279
2311135	Rayon and other man-made fibers.....	2,939	69,845	1,517	1,164	6	524		
2311137	Other summer-weight suits.....	206	4,583	114	81	xxx	21		
2311141	Students' (sizes 32-40):								
	Regular-weight.....	398	6,809	86	305	(6)	50	7632	712,609
2311145	Summer-weight.....	38	726	(8)	838	xxx	xxx	773	71,156
2311151	Cadets' (sizes 8-18):								
	Regular-weight.....	1,061	12,656	244	802	1	58	91,130	914,813
2311155	Summer-weight.....	99	1,319	47	52	xxx	6	933	9405
2311161	Junior boys', excluding wash suits (sizes 4-12):								
	Regular-weight.....	1,293	12,689	784	504	...	17	101,082	109,913
2311165	Summer-weight.....	428	3,074	290	138	xxx	-	18209	101,481
2311171	Suits, tailored uniform:								
	Men's military uniform suits: <sup>6</sup>								
	Regular-weight.....	139	5,073	113	12	(11)	89	12109	122,854
2311173	Summer-weight.....	89	1,184	81	7	xxx	(11)		
2311175	Men's non-military uniform suits.....	297	6,509	237	56	4	2	330	12,675
2311177	Boys' uniform suits.....	103	1,372	(8)	883	xxx	xxx		
2311100	Men's and boys' suits, excluding ski, snow, slack, and wash, not specified by kind.....	xxx	5,005	xxx	xxx	xxx	xxx	xxx	xxx
23112	Men's and boys' overcoats and topcoats <sup>3</sup> .....	xxx	139,282	xxx	xxx	xxx	xxx	8,028	209,466
2311211	Coats, excluding uniform:								
	Men's:								
	Overcoats (outer fabric over 22 oz. per yard 54" wide).....	573	21,322	292	269	3	152	7,233	196,371
2311213	Topcoats, including reversibles, zipper-lined fingertip and water-repellent wool topcoats (22 oz. or less).....	3,889	102,967	2,683	1,157	7	362		
2311215	Stormcoats.....	37	917	136	(13)	xxx	2		
2311221	Students' overcoats, topcoats, and stormcoats (sizes 32-40).....	100	1,641	10	88	2	11	14150	142,309
2311231	Cadets' overcoats, topcoats, and stormcoats (sizes 8-18).....	476	4,974	129	345	xxx	74	9165	92,170
2311241	Junior boys' overcoats, topcoats, and stormcoats (sizes 4-12).....	646	5,016	332	308	xxx	241	15282	152,980
2311271	Men's and boys' uniform overcoats and topcoats:								
	Military <sup>6</sup> .....	8	394	4	3	1	114	12160	123,614
2311275	Non-military.....	38	1,442	28	8	(11)	...	38	2,022
2311200	Men's and boys' overcoats and topcoats, not specified by kind.....	xxx	609	xxx	xxx	xxx	xxx	xxx	xxx
23113	Men's and boys' tailored dress and sport coats and jackets, including leisure jackets, separate tailored uniform coats and jackets.....	xxx	124,975	xxx	xxx	xxx	xxx	5,631	80,345
2311311	Tailored dress and sport coats, including sport and leisure jackets, excluding uniform:								
	Men's.....	5,743	95,346	3,299	2,376	31	1,811	4,458	64,442
2311321	Students' (sizes 32-40).....	406	5,642	258	147	xxx	101	3302	33,634
2311331	Cadets' (sizes 8-18).....	730	5,023	148	280	xxx	224	7308	73,360
2311341	Junior boys' (sizes 4-12).....	1,073	6,158	414	658	xxx	245	9218	92,030

See footnotes at end of table.

## MEN'S AND BOYS' SUITS, COATS, AND OVERCOATS

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Table 6A--QUANTITY AND VALUE OF PRODUCTS SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, FOR THE UNITED STATES: 1954 AND 1947--Continued

Product code	Product	Garments cut						
		1954					1947	
		Total <sup>1</sup>		From materials owned by establishments classified as--			Quantity of garments on contract <sup>2</sup>	Sales value
		Quantity	Sales value	"Manufacturer"	"Jobbers"	"Contractors"		
		(1,000 units)	(\$1,000)	(1,000 units)	(1,000 units)	(1,000 units)	(1,000 units)	(\$1,000)
2311---	Men's and boys' suits and coats--Continued							
23113	Men's and boys' tailored dress and sport coats and jackets, including leisure jackets, separate tailored uniform coats and jackets--Continued							
	Men's and boys' separate tailored uniform coats and jackets:							
2311371	Military <sup>6</sup> .....	164	4,052	102	57	6	453	1,550
2311375	Non-military.....	289	6,311	232	52	3	10,258	105,329
2311300	Men's and boys' tailored dress and sport coats and jackets, including leisure jackets, separate tailored uniform coats and jackets, not specified by kind.....	xxx	2,443	xxx	xxx	xxx	xxx	xxx
2311000	Suits and coats, not specified by kind.....	xxx	23,731	xxx	xxx	xxx	xxx	21,919
2312---	Suit and coat findings, total.....	xxx	27,098	xxx	xxx	xxx	xxx	37,314
2312011	Men's and boys' coat, suit, and trouser findings.....	xxx	27,098	xxx	xxx	xxx	xxx	37,314

xxx Not applicable.

<sup>1</sup>Includes the output of small number of establishments in industries which were not sub-classified into manufacturer, jobber, and contractor categories. See also footnote 3, table 2 for other exclusions from these categories.<sup>2</sup>Cuttings of garments on contract accounting for contract receipts of about \$12.0 million were not specified by kind of product.<sup>3</sup>The detailed quantity and value figures shown for 1954 are somewhat understated since nearly \$32.0 million value of products were not specified by kind of product. It is estimated that this value of products represents the following quantities: men's suits, 645 thousand; boys' suits, 90 thousand; men's overcoats and topcoats, 165 thousand; men's tailored dress and sport coats and jackets, .275 thousand; boys' tailored dress and sport coats and jackets, 110 thousand.<sup>4</sup>Includes product codes 2311111 and 2311121.<sup>5</sup>Includes product codes 2311115 and 2311125.<sup>6</sup>Excludes uniforms made from government-owned materials except for quantities shown for cuttings of garments on contract.<sup>7</sup>Includes sizes 32-38 only.<sup>8</sup>Included with "Jobbers" to avoid disclosing operations of individual firms.<sup>9</sup>Includes sizes 8-16 only.<sup>10</sup>Includes junior boys' size 3.<sup>11</sup>Less than 1 thousand.<sup>12</sup>In addition to the figures shown above for military garments, the following cuttings were reported as cut on contract for the United States Government (all figures are in thousands): Uniform suits, 59; uniform separate coats, 1,247; and uniform overcoats, 634. The census figures do not include the value of these garments nor the value of the piece goods used in the garments.<sup>13</sup>Included with manufacturers to avoid disclosing figures for individual companies.<sup>14</sup>Represent students' sizes 10-24 only.<sup>15</sup>Represent junior boys' sizes 4-14.

## MANUFACTURES - INDUSTRY STATISTICS

Table 6B.—VALUE OF PRODUCT CLASSES SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, BY DIVISIONS AND STATES FOR 1954, AND UNITED STATES TOTALS FOR EARLIER YEARS

(In thousands of dollars. Statistics are shown for selected product classes which are economically significant and production of which is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (Table 2) and they are not miscellaneous or "not specified by type" classes. For each product class, States are listed only if the value of shipments is more than \$1 million and the figure does not disclose individual company information. Additional States which had shipments of more than \$1 million of the individual product classes are listed in footnote 1)

Product class, region, and State <sup>1</sup>	Value of shipments	Product class, region, and State <sup>1</sup>	Value of shipments	Product class, region, and State <sup>1</sup>	Value of shipments
Men's and boys' tailored suits (23111)		Men's and boys' overcoats and topcoats (23112)		Men's and boys' separate tailored jackets (23113)—Continued	
1954 United States, total.....	639,161	1954 United States, total.....	139,282		
1947 United States, total <sup>2</sup> .....	839,708	1947 United States, total.....	209,466	Middle Atlantic.....	68,558
1954		1954		New York.....	43,592
New England.....	24,431	New England.....	16,908	New Jersey.....	4,527
Middle Atlantic.....	360,245	Middle Atlantic.....	74,117	Pennsylvania.....	20,439
New York.....	236,543	New York.....	56,509	North Central.....	18,861
New Jersey.....	13,327	Pennsylvania.....	17,115	East North Central.....	14,801
Pennsylvania.....	110,374	North Central.....	37,432	Ohio.....	7,834
East North Central.....	94,956	East North Central.....	26,179	Illinois.....	6,129
Ohio.....	41,044	Ohio.....	15,164	West North Central.....	4,060
Illinois.....	51,089	Illinois.....	10,606	Missouri.....	2,504
West North Central.....	13,090	West North Central.....	11,252	South Atlantic.....	11,836
South Atlantic.....	96,779	Missouri.....	6,319	Maryland.....	7,488
Maryland.....	71,391	South Atlantic.....	5,844	Georgia.....	2,997
Virginia.....	7,489	Maryland.....	5,073	Florida.....	628
Georgia.....	17,788	East South Central.....	4,054	East South Central.....	3,935
East South Central.....	31,453	West South Central.....	166	Kentucky.....	2,585
Kentucky.....	20,889	West.....	883	Tennessee.....	1,350
West South Central.....	8,522	Men's and boys' separate tailored jackets (23113)		West South Central.....	771
Louisiana.....	7,276	1954 United States, total.....	124,975	West.....	16,725
West.....	10,572	1947 United States, total.....	80,345	Washington.....	2,874
California.....	9,264	1954		California.....	13,724
		New England.....	4,970		
		Massachusetts.....	4,487		

<sup>1</sup>For the specified product classes, shipments of over \$1 million were reported for the States listed but the exact figures are withheld to avoid disclosure of individual company figures: 23111, Indiana, Virginia, Alabama, Missouri, Massachusetts, Tennessee, and Texas; 23112, Massachusetts, Minnesota, and Kentucky; 23113, Minnesota.

<sup>2</sup>In addition to the value shown by product class for Industry 2311, Men's and Boys' Suits and Coats, not specified by kind, in the value of \$21,919 thousand were reported for 1947 and of \$23,731 thousand for 1954. For the intervening years only combined totals are available for product classes 23111, 23112, and 23113: 1953, \$1,073,433 thousand; 1952, \$1,000,404 thousand; 1951, \$1,075,645 thousand; and 1950, \$1,021,469 thousand.

TABLE 7 NOT APPLICABLE TO THIS BULLETIN



## MEN'S AND BOYS' SUITS, COATS, AND OVERCOATS

23A-11

Table 8.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY INDUSTRY SPECIALIZATION AND PRIMARY PRODUCT CLASS SPECIALIZATION, FOR THE UNITED STATES: 1954

(This table presents selected statistics for establishments classified according to their degree of specialization in products primary to the industry. The establishments are classified in two ways: (1) by industry specialization—the degree of specialization in all primary products of the industry; and (2) by product-class specialization—the degree of specialization in the largest product class of the establishment. The degree of "industry specialization" for an establishment represents the ratio of its primary product shipments to its total product shipments, primary and secondary. The degree of "product-class specialization" for an establishment represents the ratio of its largest product class shipments to its total product shipments, primary and secondary. Data are not shown for some industries, product classes, and specialization ranges for a variety of reasons, consequently, detailed figures frequently do not add to the totals. See Introduction for detailed explanation)

Ind. or product class No.	Industry or product class by percent of specialization	Establishments, number	All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
2311 Pt. A	"MANUFACTURERS"—MEN'S AND BOYS' SUITS AND COATS (all establishments).....	440	67,795	219,556	60,449	109,125	174,429	309,702	300,237	609,940
	Establishments with:									
	90% or more specialization.....	324	49,328	164,552	43,883	79,244	130,005	224,731	218,952	443,684
	75-89% specialization.....	53	10,659	33,081	9,581	17,323	27,124	51,473	48,934	100,407
	50-74% specialization.....	43	3,334	9,801	2,853	5,169	7,596	17,055	13,691	30,747
	All other <sup>1</sup> .....	20	4,473	12,121	4,130	7,388	9,703	16,442	18,659	35,102
23111	"Manufacturers"—men's and boys' tailored suits: All establishments specializing in product class	181	47,144	151,225	42,156	76,297	120,666	217,767	211,698	429,466
	Establishments with:									
	90% or more specialization.....	54	7,204	21,009	6,575	11,461	17,127	29,372	33,485	62,858
	75-89% specialization.....	50	15,359	49,840	13,929	25,644	40,265	70,802	74,594	145,397
	50-74% specialization.....	66	22,853	75,846	20,127	36,673	60,010	108,325	94,774	203,099
	Less than 50% specialization.....	11	1,728	4,530	1,524	2,517	3,262	9,267	8,843	18,111
23112	"Manufacturers"—men's & boys' overcoats & topcoats" All establishments specializing in product class	50	7,515	25,991	6,568	11,751	19,346	36,111	32,367	68,479
	Establishments with:									
	90% or more specialization.....	23	1,907	6,845	1,708	2,990	5,449	9,281	7,963	17,244
	75-89% specialization.....	12	2,494	9,022	2,076	3,660	6,476	12,572	13,151	25,728
	50-74% specialization.....	10	2,437	8,239	2,168	4,022	5,942	11,517	8,212	19,729
	Less than 50% specialization.....	5	676	1,884	615	1,078	1,478	2,741	3,036	5,777
23113	"Manufacturers"—men's and boys' separate tailored jackets: All establishments specializing in product class	78	9,682	32,367	8,589	15,548	26,507	43,189	41,285	84,474
	Establishments with:									
	90% or more specialization.....	35	1,270	3,935	1,144	2,183	3,158	6,232	4,175	10,408
	75-89% specialization.....	10	1,011	3,500	918	1,722	3,084	4,174	5,585	9,760
	50-74% specialization.....	21	4,319	14,796	3,780	6,791	12,320	19,949	16,953	36,903
	Less than 50% specialization.....	12	3,081	10,136	2,746	4,851	7,944	12,832	14,570	27,402
2311 Pt. B	"JOBBERS"—MEN'S AND BOYS' SUITS AND COATS (all establishments).....	365	7,673	35,507	4,772	8,083	15,791	82,261	278,891	361,153
	Establishments with:									
	90% or more specialization.....	294	5,547	26,790	3,565	5,878	12,041	57,974	212,016	269,991
	75-89% specialization.....	37	1,181	4,866	566	1,098	1,640	13,092	38,822	51,914
	50-74% specialization.....	25	823	3,287	578	997	1,859	9,638	22,104	31,743
	All other <sup>1</sup> .....	9	121	563	63	109	251	1,555	5,948	7,504
23111	"Jobbers"—men's and boys' tailored suits: All establishments specializing in product class	242	5,191	24,741	3,132	5,422	10,504	55,428	188,986	244,414
	Establishments with:									
	90% or more specialization.....	109	1,121	5,082	675	1,004	2,234	10,919	41,900	52,819
	75-89% specialization.....	56	2,273	9,700	1,341	2,396	4,203	24,190	82,530	106,720
	50-74% specialization.....	62	1,567	7,123	991	1,814	3,644	14,970	53,815	68,785
	Less than 50% specialization.....	15	229	2,837	124	207	422	5,349	10,740	16,089
23112	"Jobbers"—men's and boys' overcoats and topcoats: All establishments specializing in product class	43	625	2,840	430	664	1,423	6,582	23,395	29,978
	Establishments with:									
	90% or more specialization.....	19	380	1,644	265	439	851	3,815	11,261	15,076
	75-89% specialization.....	5	98	369	72	63	163	739	2,463	3,202
	50-74% specialization.....	13	97	563	60	103	266	1,554	6,596	8,151
	Less than 50% specialization.....	6	48	263	32	58	142	473	3,073	3,547
23113	"Jobbers"—men's & boys' separate tailored jackets: All establishments specializing in product class	45	1,398	6,467	839	1,429	2,833	16,018	55,481	71,500
	Establishments with:									
	90% or more specialization.....	14	201	812	123	141	278	1,584	6,388	7,972

Note: Plant specialization data are not shown for Industry 2311 as a whole since specialization ratios for contractors were not completed. Such ratios would not be meaningful since they could relate to only a minor portion of the contractors' total activity, that is production on own account from materials owned by them, and might not be representative of the activity of the establishments as a whole.

<sup>1</sup>This class includes data for establishments with less than 50 percent specialization in the primary products of the industry. Miscellaneous small statistical adjustments are also included.



## Men's and Boys' Furnishings, Work Clothing, and Allied Garments

This report shows 1954 Census of Manufactures statistics for establishments classified in each of the following industries:

Code	Title
2321--Men's	Dress Shirts and Nightwear
2322--Men's and Boys'	Underwear
2323--Men's and Boys'	Neckwear
2325--Men's and Boys'	Cloth Hats
2326--Hat and Cap Materials	
2327--Separate Trousers	
2328--Work Shirts	
2329--Men's and Boys'	Clothing, Not Elsewhere Classified

Establishments classified in these industries are primarily engaged in the manufacture of men's and boys' furnishings, work clothing and allied garments on a cut-and-sew basis from woven materials or from fabrics knit in other establishments. Establishments primarily engaged in manufacturing men's and boys' knitted apparel items from fabrics knit in the same establishments are classified in Industry group 225, Knitting Mills. Therefore, some of the primary products of Industry group 232 are also primary to Industry group 225. Because knit products are classified in two or more industries, a somewhat lower than usual coverage ratio exists for these industries (the coverage ratio measures the extent to which the total shipments of products primary to the given industry are shipped by establishments classified in that industry).

**2321--Men's Dress Shirts and Nightwear** (Full Standard Industrial Classification Title: Men's Youths', and Boys' Shirts (Except Work Shirts), Collars, and Nightwear)

This industry comprises establishments primarily engaged in manufacturing men's, youth's, and boys' shirts, collars, and nightwear cut and sewed from purchased woven or knit fabric. Establishments primarily engaged in manufacturing knit outerwear sport shirts, including polo, tennis, basque, and T-shirts, from purchased knit fabric are also classified in Industry 2321. Establishments primarily engaged in manufacturing work shirts are classified in Industry 2328, Work Shirts. Knitting mills primarily engaged in manufacturing nightwear are classified in Industry 2254, Knit Underwear Mills, and knit sport shirts in Industry 2253, Knit Outerwear Mills. For a detailed list of primary products of Industry 2321, refer to Table 6A, product codes 2321111 to 2321271 and 2253211 to 2253227.

The value of products of Industry 2321, Men's Dress Shirts and Nightwear, in 1954 totaled \$894 million. This included output of primary products (men's dress shirts and nightwear and knit outerwear sport shirts) valued at \$700 million, production of secondary products valued at \$73 million, and miscellaneous receipts (mainly contract work on materials owned by others) of \$121 million.

Industry 2321 output of primary products in 1954 represented 90 percent of its total products (primary and secondary). In 1947, this primary product specialization ratio was 94 percent. Secondary products made by Industry 2321 in 1954 consisted mainly of men's and boys' separate trousers, except work, \$9 million, men's and boys' work shirts, \$9 million; and men's and boys' heavy outerwear coats and jackets, \$15 million.

Industry 2321 production of primary products in 1954 represented 85 percent of these products, valued at \$827 million, made by all industries. This coverage ratio in 1947 was 87 percent. Industry 2321 accounted for 94 percent of the men's and boys' woven dress and sport shirts and nightwear, valued at \$710 million, and 27 percent of the men's and boys' knit outerwear sport shirts, valued at \$110 million made by all industries in 1954. As indicated above, men's and boys' knit outerwear sport shirts

are also classified in Industry 2253, Knit Outerwear Mills. This accounts for the relatively low coverage ratio for the output of this product by Industry 2321.

**2322--Men's and Boys' Underwear** (Full Standard Industrial Classification Title: Men's, Youths', and Boys' Underwear)

This industry comprises establishments primarily engaged in manufacturing men's, youths', and boys' underwear cut and sewed from purchased woven or knit fabric. Knitting mills primarily engaged in manufacturing underwear are classified in Industry 2254, Knit Underwear Mills. For a detailed list of primary products of Industry 2322, refer to Table 6A, product codes 2322011 to 2322071.

The value of products of Industry 2322, Men's and Boys' Underwear, in 1954 totaled \$74 million. This included output of primary products (men's and boys' underwear) valued at \$60 million, production of secondary products valued at \$8 million, and miscellaneous receipts (mainly contract work on materials owned by others) of \$6 million.

Industry 2322 output of men's and boys' underwear in 1954 represented 88 percent of its total products (primary and secondary). In 1947, the primary product specialization ratio was 95 percent. Secondary products made by Industry 2322 in 1954 consisted principally of men's dress shirts and nightwear, \$3 million and knit outerwear sport shirts, \$2 million. The men's and boys' underwear produced by Industry 2322 was made principally of woven fabrics.

Industry 2322 production of men's and boys' underwear in 1954 represented 28 percent of these products, valued at \$214 million, made by all industries. This coverage ratio in 1947 was 21 percent. Other industries making men's and boys' underwear consisted mainly of Industry 2254, Knit Underwear Mills, \$133 million; Industry 2253, Knit Outerwear Mills, \$7 million; and Industry 2321, Men's Dress Shirts and Nightwear, \$6 million. As indicated above, men's and boys' knit underwear are also classified in Industry 2254, Knit Underwear Mills. This accounts for the relatively low coverage ratio for the output of this product by Industry 2322.

**2323--Men's and Boys' Neckwear** (Full Standard Industrial Classification Title: Men's, Youths', and Boys' Neckwear)

This industry comprises establishments primarily engaged in manufacturing men's, youths', and boys' neckties, scarfs, and mufflers cut and sewed from purchased woven or knit fabric. Knitting mills primarily engaged in manufacturing neckties, scarfs, and mufflers are classified in Industry 2253, Knit Outerwear Mills. For a detailed list of primary products of Industry 2323, refer to Table 6A, product codes 2323011 to 2323019.

The value of products of Industry 2323, Men's and Boys' Neckwear, in 1954 totaled \$100 million. This included output of primary products (men's and boys' neckwear) valued at \$93 million, production of secondary products valued at \$2 million, and miscellaneous receipts (mainly contract work on materials owned by others) of \$5 million.

Industry 2323 output of men's and boys' neckwear in 1954 represented 98 percent of its total products (primary and secondary). In 1947, this primary product specialization ratio was 97 percent.

Industry 2323 production of men's and boys' neckwear in 1954 represented 92 percent of these products, valued at \$101 million, made by all industries. This coverage ratio in 1947 was 91 percent. The principal other industry making men's and boys' neckwear in 1954 was Industry 2253, Knit Outerwear Mill, \$2 million.



**2325—Men's and Boys' Cloth Hats** (Full Standard Industrial Classification Title: Men's, Youths', and Boys' Cloth Hats and Caps)

This industry comprises establishments primarily engaged in manufacturing men's, youths', and boys' hats and caps from purchased knit or woven fabric, such as baseball and other cloth sport hats; chauffeurs', policemen's, and other uniform hats (including women's civilian and military uniform hats and caps) and miscellaneous cloth hats and caps. Establishments primarily engaged in manufacturing fur-felt hats are classified in Industry 2281, Fur-Felt Hats and Hat Bodies; wool-felt hats in Industry 2282, Wool-Felt Hats and Hats Bodies; and straw hats in Industry 2283, Straw Hats. Knitting mills primarily engaged in manufacturing caps are classified in Industry 2253, Knit Outerwear Mills. For a detailed list of primary products of Industry 2325, refer to Table 6A, product codes 2325011 to 2325035.

The value of shipments of Industry 2325, Men's and Boys' Cloth Hats, in 1954 totaled \$58 million. This included shipments of primary products (men's and boys' cloth hats) valued at \$55 million, shipments of secondary products valued at \$1 million, and miscellaneous receipts (mainly contract work on materials owned by others) of \$2 million.

Industry 2325 shipments of men's and boys' cloth hats in 1954 represented 97 percent of its total product shipments (primary and secondary). In 1947, this primary product specialization ratio was 96 percent.

Industry 2325 shipments of men's and boys' cloth hats in 1954 represented 87 percent of these products, valued at \$63 million, shipped by all industries. This coverage ratio in 1947 was 82 percent. The principal other industry shipping men's and boys' cloth hats in 1954 was Industry 2253, Knit Outerwear Mills, \$5 million.

Separate 1954 Census figures for the Men's and Boys' Cloth Hats Industry, by type of establishment ("Manufacturers," "Jobbers," and "Contractors") are not shown in the detailed tables of this report since practically all establishments classified in Industry 2325 operate as "manufacturers."

#### **2326—Hat and Cap Materials**

This industry comprises establishments primarily engaged in manufacturing hat and cap findings such as cap visors, sweatbands, and trimmings from purchased materials. Establishments primarily engaged in tip printing or stamping are also included in this industry. Establishments primarily engaged in manufacturing hatters' fur are classified in Industry 2284, Hatters' Fur.

The value of shipments of Industry 2326, Hat and Cap Materials, in 1954 totaled \$10 million. This included shipments of primary products (hat and cap materials) valued at \$9 million, a negligible amount of secondary products, and miscellaneous receipts (mainly contract work or materials owned by others) of \$1 million.

Industry 2326 shipments of hat and cap materials in 1954 represented 99 percent of its total product shipments (primary and secondary). In 1947, the primary product specialization ratio was 97 percent.

Industry 2326 shipments of hat and cap materials in 1954 represented 94 percent of these products, valued at \$10 million, shipped by all industries. This coverage ratio in 1947 was 99 percent. In this connection it should be noted that the output of hat and cap materials made and used in establishments which are primarily engaged in the manufacture of completed hats and caps are not included in the figures shown for this industry.

Separate 1954 Census figures for the Hat and Cap Materials Industry, by type of establishment ("Manufactures," "Jobbers," and "Contractors") are not shown in the detailed tables of this report since practically all establishments classified in Industry 2326 operate as "manufacturers."

**2327—Separate Trousers** (Full Standard Industrial Classification Title: Men's, Youths', and Boys' Separate Trousers)

This industry comprises establishments primarily engaged in manufacturing men's, youths', and boys' separate trousers. Establishments primarily engaged in manufacturing trousers as a part of complete suits are classified in Industry 2311, Men's and Boys' Suits and Coats, and work pants and washable service slacks in Industry 2329, Men's and Boys' Clothing, Not Elsewhere Classified. For a detailed list of products of Industry 2327, refer to Table 6A, product codes 2327011 to 2327065.

The value of products of Industry 2327, Separate Trousers, in 1954 totaled \$398 million. This included output of primary products (separate trousers) valued at \$275 million, production of secondary products valued at \$32 million, and miscellaneous receipts (mainly contract work on materials owned by others) of \$90 million.

Industry 2327 output of separate trousers in 1954 represented 89 percent of its total products (primary and secondary). In 1947, this primary product specialization ratio was 86 percent. Secondary products made by this industry in 1954 consisted mainly of men's and boys' work, sport and other apparel, \$12 million, and men's and boys' suits, coats and overcoats, \$12 million.

Industry 2327 production of separate trousers in 1954 represented 74 percent of these products, valued at \$369 million, made by all industries. This coverage ratio in 1947 was 70 percent. Other industries making separate trousers consisted mainly of Industry 2311, Men's and Boys' Suits and Coats, \$59 million; Industry 2321, Men's Dress Shirts and Nightwear, \$9 million; and Industry 2329, Men's and Boys' Clothing, \$16 million.

#### **2328—Work Shirts**

This industry comprises establishments primarily engaged in manufacturing work shirts. Establishments primarily engaged in manufacturing men's, youths', and boys' dress and sport shirts from purchased fabric are classified in Industry 2321, Men's Dress Shirts and Nightwear. Knitting mills primarily engaged in manufacturing knit sport shirts (polo, T-shirts, etc.) are classified in Industry 2253, Knit Outerwear Mills. For a detailed list of primary products of Industry 2328, refer to Table 6A, product codes 2328011 and 2328051.

The value of products of Industry 2328, Work Shirts, in 1954 totaled \$38 million. This included output of primary products (work shirts) valued at \$32 million, production of secondary products valued at \$1 million, and miscellaneous receipts (mainly contract work on materials owned by others) of \$6 million.

Industry 2328 output of work shirts in 1954 represented 97 percent of its total products (primary and secondary). In 1947, this primary product specialization ratio was 77 percent. This increase of 20 percentage points in the specialization ratio reflects the shift to other industries of a number of establishments which had produced a multi-line of men's furnishings in 1947. In 1954, their primary production was other than work shirts and they were classified in other industries, principally Industry 2329, Men's and Boys' Clothing, N.E.C. The plants included in Industry 2328 for 1954 for the most part make only work shirts.

Industry 2328 production of work shirts in 1954 represented 35 percent of these products valued at \$90 million, made by all industries. This coverage ratio in 1947 was 67 percent. Other industries making work shirts in 1954 consisted mainly of Industry 2321, Men's Dress Shirts and Nightwear, \$9 million, and Industry 2329, Men's and Boys' Clothing, \$47 million.

Separate 1954 Census figures for the Work Shirt Industry, by type of establishment ("Manufacturers," "Jobbers," and "Contractors") are not shown in the detailed tables of this report except for Table 3. This was done to prevent disclosing the operations of individual companies. It should be noted, however, that there is a significant amount of contract operations in this industry, as well as the usual type of manufacturing establishment.

**2329—Men's and Boys' Clothing, Not Elsewhere Classified** (Full Standard Industrial Classification Title: Men's, Youths', and Boys' Work, Sport, and Other Clothing, Not Elsewhere Classified)

This industry comprises establishments primarily engaged in manufacturing men's, youths', and boys' work, sport, and other clothing not elsewhere classified. Important products of this industry include overalls, work pants, industrial garments, washable service apparel, oiled-fabric work garments, mackinaws, lumberjackets, blanket-lined coats, ski and snow suits, and hunting and riding garments. Establishments primarily engaged in manufacturing separate trousers are classified in Industry 2327, Separate Trousers, and leather and sheep-lined garments in Industry 2386, Leather and Sheep-Lined Clothing. Knitting mills primarily engaged in manufacturing outerwear are classified in Industry 2253, Knit Outerwear Mills. For a detailed list of products of Industry 2329, refer to Table 6A, product codes 2329111 to 2329371, 2253111 to 2253127, and 2253311 to 2253325.

The value of products of Industry 2329, Men's and Boys' Clothing, Not Elsewhere Classified, in 1954 totaled \$793 million. This included output of primary products (men's and boys' clothing, not elsewhere classified, including sweaters and swimwear and athletic shorts) valued at \$564 million, production of secondary products valued at \$153 million, and miscellaneous receipts (mainly contract work on materials owned by others) of \$76 million.

Industry 2329 output of men's and boys' clothing, not elsewhere classified, in 1954 represented 79 percent of its total products made (primary and secondary). In 1947, this primary product specialization ratio was 82 percent. Secondary products made by this industry in 1954 consisted mainly of work shirts, \$47 million; men's and boys' woven dress and sport shirts, \$19 million; children's outerwear, n.e.c., \$17 million; men's and boys' separate trousers, except work, \$16 million; and women's, misses', and juniors' outerwear, n.e.c., \$16 million.

Industry 2329 production of primary products (men's and boys' clothing, not elsewhere classified, including sweaters and swimwear and athletic trunks) in 1954 represented 78 percent of these products, valued at \$721 million, made by all industries.

This coverage ratio in 1947 was 76 percent. Other industries shipping men's and boys' clothing, not elsewhere classified, in 1954 consisted mainly of Industry 2311, Men's and Boys' Suits and Coats, \$12 million; Industry 2321, Men's Dress Shirts and Nightwear, \$25 million; and Industry 2327, Separate Trousers, \$14 million.

#### Relationship of Census of Manufactures and Facts For Industry Data

The Bureau of the Census publishes current monthly data on the cuttings of men's selected woven furnishings, work clothing items and sweaters in the Facts For Industry Series M67B, Men's Apparel, and quarterly figures on the output of men's and boys' knit cotton and wool underwear and nightwear in Facts For Industry Series M67C, Knit Underwear and Nightwear. Annual figures covering the production of boys' apparel and additional items of men's apparel are also published in the annual summaries of these series. The 1954 Census figures shown in Table 6A may differ from the sum of the twelve monthly or four quarterly estimates shown in the Facts For Industry reports primarily due to differences in reporting by the same respondents on the current and census questionnaires, and to some extent to the effect of sampling variations in the current estimates. In addition, some of the discrepancy in figures for men's woven furnishings and work clothing can be attributed to the conceptual differences between the 1954 monthly estimates which are based on reports from the "cutter" of the material (irrespective of ownership) and the 1954 Census figures which are based on reports from the owners of the materials and the finished garments. Regarding the differences in reporting by the same respondents, it should be noted that some manufacturers in reporting for the 1954 Census did not adequately describe the specific garments which they made or reported value only. The value of such output is shown in Table 6A under the several categories for "Not specified by kind". The 1954 Census statistics on number of garments cut do not, of course, include the output represented by such values.

The general statistics (employment, payrolls, value of shipments, cost of materials, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products, and, for that matter, their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (Tables 1-4) with product statistics (Table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in Table 5A which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry made as secondary products by establishments classified in other industries.



## MANUFACTURES—INDUSTRY STATISTICS

Table 1.—GENERAL STATISTICS FOR THE UNITED STATES: 1954 AND EARLIER YEARS

(For explanation of column captions see Introduction)

Industry and census year	Establishments, number	All employees		Production workers		Value added by manufacture <sup>2</sup> (\$1,000)	Cost of materials, etc. <sup>3</sup> (\$1,000)	Value of shipments <sup>4</sup> (\$1,000)
		Number <sup>1</sup>	Payroll (\$1,000)	Number <sup>1</sup>	Wages (\$1,000)			
Men's dress shirts and nightwear (S.I.C. 2321):								
1954.....	971	108,304	236,726	100,262	196,683	372,941	521,036	893,980
1953 <sup>5</sup> .....	(NA)	108,670	242,891	101,966	207,704	384,608	425,482	810,090
1953 <sup>5</sup> .....	(NA)	103,574	223,172	96,180	187,140	325,459	413,143	738,602
1951 <sup>5</sup> .....	(NA)	96,880	204,194	90,372	171,552	307,692	394,057	701,749
1947.....	1,064	94,182	163,751	88,052	137,487	292,426	438,851	731,277
1939.....	590	75,008	53,666	70,453	44,942	83,727	108,640	192,367
1937.....	529	71,089	47,362	67,594	41,055	80,179	104,049	184,228
1935.....	555	64,097	44,336	60,777	38,059	65,716	94,053	159,769
1933 <sup>6</sup> .....	596	57,528	30,196	55,029	26,906	52,713	70,240	122,953
Men's and boys' underwear (S.I.C. 2322):								
1954.....	82	9,385	18,923	8,827	16,289	29,952	44,371	74,324
1947.....	103	7,269	11,330	6,929	9,847	20,348	29,405	49,753
1939.....	54	6,901	4,313	6,543	3,728	6,415	10,278	16,693
1937.....	59	9,718	5,617	9,312	4,836	7,340	13,855	21,195
1935 <sup>7</sup> .....	65	8,019	4,688	7,655	4,021	7,314	11,654	18,968
Men's and boys' neckwear (S.I.C. 2323):								
1954.....	403	9,483	27,797	8,051	19,056	48,237	51,798	100,036
1947.....	413	10,744	25,367	9,246	18,485	50,708	62,980	113,688
1939.....	381	11,367	10,955	9,603	7,346	19,795	26,598	46,393
1937 <sup>8</sup> .....	320	(NA)	(NA)	10,958	8,729	20,466	30,306	50,772
Men's and boys' cloth hats (S.I.C. 2325):								
1954.....	415	8,079	21,457	7,451	17,977	33,030	25,257	58,287
1947.....	313	5,541	12,379	5,063	10,455	20,685	16,850	37,535
1939.....	270	3,909	3,766	3,383	2,877	5,894	5,711	11,605
1937 <sup>9</sup> .....	258	3,892	3,704	3,460	2,934	5,802	5,928	11,730
1935.....	315	4,342	4,576	3,796	3,518	7,205	7,052	14,257
1933.....	299	4,435	3,473	4,053	2,968	6,478	6,181	12,659
1931.....	379	(NA)	(NA)	3,459	3,662	8,694	8,173	16,867
1929.....	576	6,715	10,009	5,826	7,694	18,993	16,908	35,901
1927.....	568	7,314	11,562	6,300	9,126	20,512	20,702	41,214
1925.....	579	7,571	11,516	6,552	9,243	21,124	22,699	43,823
1923.....	351	8,623	12,136	7,313	9,594	20,561	22,250	42,811
1921.....	584	7,396	10,835	6,505	8,701	18,450	18,537	36,987
1919.....	709	8,821	12,205	7,539	9,439	20,363	24,177	44,540
1914.....	580	8,145	5,432	7,322	4,508	9,325	9,268	18,593
1909.....	494	6,921	4,204	6,201	3,421	6,999	6,690	13,689
1904 <sup>10</sup> .....	415	7,012	3,790	6,594	3,354	6,647	6,308	12,955
Hat and cap materials (S.I.C. 2326):								
1954.....	63	936	2,941	796	2,145	4,579	5,090	9,669
1947.....	70	1,111	3,002	943	2,100	5,620	6,709	12,329
1939.....	55	940	1,057	796	743	1,747	2,940	4,687
1937 <sup>11</sup> .....	41	(NA)	(NA)	739	637	1,424	2,718	4,142
Separate trousers (S.I.C. 2327):								
1954 <sup>12</sup> .....	798	51,652	118,688	48,315	99,562	181,309	216,376	397,685
1947.....	973	47,279	91,400	44,006	75,620	159,439	174,600	334,039
1939 <sup>13</sup> .....	659	(NA)	(NA)	31,327	22,201	39,528	43,240	82,768
Work shirts (S.I.C. 2328):								
1954.....	52	6,992	11,468	6,789	10,632	16,652	21,648	38,300
1947.....	85	12,601	16,609	11,169	13,858	33,212	62,166	95,378
1939.....	87	14,269	8,476	13,449	7,269	14,253	21,419	35,672
1937 <sup>14</sup> .....	115	(NA)	(NA)	14,824	7,181	11,930	24,081	36,011
Men's and boys' clothing, nec. (S.I.C. 2329):								
1954.....	1,117	90,759	200,730	82,510	160,573	321,655	471,231	792,886
1953 <sup>5</sup> .....	(NA)	102,312	227,479	93,112	183,538	334,612	534,813	869,425
1952 <sup>5</sup> .....	(NA)	104,709	234,097	95,534	187,765	363,825	605,136	968,961



## MEN'S AND BOYS' FURNISHINGS, WORK CLOTHING, AND ALLIED GARMENTS

23B-5

Table 1.—GENERAL STATISTICS FOR THE UNITED STATES: 1954 AND EARLIER YEARS—Continued

(For explanation of column captions see Introduction)

Industry and census year	Establishments, number	All employees		Production workers		Value added by manufacture <sup>2</sup> (\$1,000)	Cost of materials, etc. <sup>3</sup> (\$1,000)	Value of shipments <sup>4</sup> (\$1,000)
		Number <sup>1</sup>	Payroll (\$1,000)	Number <sup>1</sup>	Wages (\$1,000)			
Men's and boys' clothing, nec.—Continued:								
1950 <sup>5</sup> .....	(NA)	97,601	195,688	88,250	160,133	309,254	538,092	847,346
1949 <sup>5</sup> .....	(NA)	84,983	168,443	77,581	128,941	258,479	437,660	696,139
1947.....	1,007	74,833	131,600	68,698	106,089	219,195	338,280	557,475
1939 <sup>13</sup> .....	779	(NA)	(NA)	60,704	39,848	77,524	119,961	197,485

NA Not available.

<sup>1</sup>The number of "All employees" and the number of "production and related workers" were obtained as follows: For the period 1949-1954, figures are based on employment for the payroll periods ended nearest the 15th of March, May, August and November. For 1947, they represent the average of 12 monthly figures. For earlier years, the production worker average was calculated as in 1947, but the figure for all employees represents the sum of the annual average number of production workers and the number of nonproduction workers reported for one payroll period (usually in October).

<sup>2</sup>Value of products less cost of materials, supplies, fuel, electric energy and contract work. See Introduction, "Value Added by Manufacture."

<sup>3</sup>Figures for years prior to 1935 do not include cost of contract work, except in the case of "Men's dress shirts and nightwear."

<sup>4</sup>For 1929 and 1949-1953, value of shipments; for all other years, value of production. See Introduction, "Value of Shipments."

<sup>5</sup>The figures for 1949-1953 represent estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period. Estimates with a standard error in excess of 15 percent generally have been omitted from this table.

<sup>6</sup>The figures for "Men's dress shirts and nightwear" prior to 1933 are not sufficiently comparable with those for later years to be shown in this table because they include data for work shirts and exclude data for men's and boys' nightwear.

<sup>7</sup>"Men's and boys' underwear" was not shown as a separate industry prior to 1935, but was included with the former industry "Furnishing goods, men's n.e.c."

<sup>8</sup>"Men's and boys' neckwear" was formerly included with the discontinued industry "Furnishing goods, n.e.c." Separate figures are, therefore, not available prior to 1937.

<sup>9</sup>Coverage of "Men's and boys' cloth hats and caps" was incomplete in 1937.

<sup>10</sup>The figures for "Men's and boys' cloth hats and caps" for 1899 are not sufficiently comparable with those for later years to be shown in this table because they include data for straw hats.

<sup>11</sup>The figures for "Hats and cap materials" prior to 1937 are not sufficiently comparable with those for later years to be shown in this table because they include data for hatters fur.

<sup>12</sup>This industry contain a large number of very small establishments some of which may have been misclassified into other industries. This would not affect the statistics other than the number of establishments.

<sup>13</sup>No comparable figures available for earlier years.

<sup>14</sup>"Work shirts" was formerly a part of the discontinued industry "Work clothing (including work shirts)." Separate figures prior to 1937 are not available.

## MANUFACTURES—INDUSTRY STATISTICS

Table 2.—GENERAL STATISTICS BY REGIONS AND STATES: 1954 AND 1947

(For explanation of column captions see Introduction)

Industry, region, and State <sup>1</sup>	1954										1947		
	Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
	Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
Men's dress shirts and nightwear (S.I.C. 2321), total.	971	676	108,304	236,726	100,262	181,083	196,683	372,941	521,036	893,980	6,370	94,182	292,426
New England.....	48	38	5,472	12,517	5,236	9,095	11,102	17,473	21,225	38,700	135	6,525	20,308
New Hampshire.....	3	3	325	827	313	551	692	1,022	94	1,116	8	(D)	(D)
Massachusetts.....	23	15	2,795	6,068	2,713	4,811	5,754	8,647	11,218	19,866	54	3,238	9,071
Connecticut.....	17	15	1,395	3,293	1,317	2,127	2,826	3,777	3,299	7,077	40	2,342	7,703
Middle Atlantic.....	478	275	39,121	96,367	35,251	61,179	75,872	155,249	287,054	442,305	1,618	43,403	151,292
New York.....	288	117	12,421	35,751	10,303	17,069	22,570	61,226	181,368	242,595	471	11,164	57,868
New Jersey.....	37	31	4,083	10,871	3,597	6,909	8,832	19,140	27,497	46,637	240	4,978	16,292
Pennsylvania.....	153	127	22,616	49,744	21,351	37,200	44,469	74,882	78,189	153,072	906	27,261	77,132
East North Central.....	37	19	3,846	10,648	3,257	6,106	7,554	15,676	35,437	51,114	168	4,788	15,177
Ohio.....	13	8	1,747	5,539	1,391	2,739	3,489	9,045	29,020	38,065	74	1,935	6,651
Illinois.....	15	5	627	1,354	567	979	1,063	1,861	1,979	3,841	23	494	1,409
West North Central.....	30	26	3,446	7,451	3,247	5,704	6,412	11,406	12,673	24,080	179	4,543	11,072
Minnesota.....	5	4	532	1,277	499	847	1,144	2,729	2,370	5,100	11	389	1,184
Missouri.....	19	17	2,619	5,602	2,470	4,384	4,775	7,923	9,722	17,645	163	3,755	8,578
South Atlantic.....	167	149	27,213	52,825	25,664	46,826	46,568	87,127	74,691	161,819	2,516	19,215	54,861
Maryland.....	28	24	3,743	8,222	3,403	6,302	6,636	15,149	12,846	27,996	330	4,861	20,594
Virginia.....	18	17	3,387	5,845	3,256	6,138	5,314	8,633	7,934	16,568	122	1,322	2,393
North Carolina.....	26	22	3,763	6,507	3,580	6,116	5,701	10,126	7,944	18,071	311	2,475	5,118
South Carolina.....	39	37	6,923	13,505	6,498	12,141	11,884	18,765	16,416	35,181	(D)	4,786	12,797
Georgia.....	37	36	7,846	15,966	7,435	13,494	14,552	29,807	26,450	56,257	1,198	4,448	11,581
Florida.....	14	8	728	1,113	707	1,245	1,043	1,555	728	2,284	29	248	662
East South Central.....	81	78	21,311	37,674	20,440	39,532	33,807	56,848	57,646	114,494	1,074	10,015	21,215
Kentucky.....	9	7	1,673	3,967	1,543	2,707	2,963	5,601	5,415	11,017	49	1,063	3,021
Tennessee.....	27	27	8,445	13,748	8,183	14,705	12,824	19,287	20,837	40,125	320	2,165	4,216
Alabama.....	25	24	6,107	11,114	5,850	10,792	10,141	18,533	17,227	35,760	380	3,090	5,972
Mississippi.....	20	20	5,085	8,844	4,863	11,327	7,877	13,425	14,165	27,591	324	3,697	8,006
West South Central.....	20	16	2,023	3,950	1,882	3,384	3,140	5,604	7,102	12,706	174	1,823	4,955
Arkansas.....	6	6	1,081	1,801	1,057	1,864	1,700	2,707	3,636	6,344	89	(D)	(D)
Mountain.....	5	3	403	1,033	273	485	494	1,108	1,335	2,443	19	3,870	13,546
Pacific.....	105	72	5,467	14,260	5,009	8,768	11,731	22,447	23,870	46,318	490		
"Manufacturers" (S.I.C. 2321, Pt. A), total.	389	274	50,752	117,025	46,370	83,943	96,808	196,318	233,754	430,072	3,368	}	(NA)
New England.....	17	10	1,227	2,909	1,165	2,063	2,686	6,161	5,527	11,688	40		
Connecticut.....	5	5	358	927	333	561	796	1,257	1,862	3,119	13		
Middle Atlantic.....	157	99	18,613	46,047	16,563	29,666	37,425	68,325	81,791	150,117	1,022		
New York.....	79	42	5,774	16,338	4,870	8,911	11,692	23,205	24,174	47,379	(D)		
New Jersey.....	11	8	1,093	3,064	766	1,499	2,005	1,883	4,618	6,502	(D)		
Pennsylvania.....	67	49	11,745	26,644	10,927	19,255	23,727	43,236	52,998	96,235	679		
East North Central.....	31	14	2,430	6,190	2,149	4,033	4,814	8,330	9,817	18,148	124		
West North Central.....	19	16	2,709	5,958	2,555	4,476	5,164	9,660	11,403	21,064	167		
Missouri.....	13	12	2,252	4,858	2,132	3,775	4,205	7,037	8,922	15,959	156		
South Atlantic.....	62	50	11,179	24,491	10,414	19,036	20,786	50,078	53,725	103,804	1,137		
Maryland.....	12	10	1,935	4,940	1,678	3,075	3,550	10,536	11,376	21,913	38		
Virginia.....	7	6	1,410	2,474	1,346	2,749	2,188	3,595	5,949	9,544	62		
South Carolina.....	10	9	2,231	4,796	2,099	3,978	4,014	8,520	12,801	21,321	146		
Georgia.....	12	12	3,619	8,381	3,467	6,061	7,862	19,392	14,971	34,364	794		
Florida.....	9	4	155	350	143	299	307	630	648	1,278	16		
East South Central.....	23	21	8,806	16,921	8,370	15,569	14,755	31,777	46,624	78,401	385		
Tennessee.....	7	7	3,496	5,893	3,383	6,340	5,582	10,246	19,744	29,991	67		
Alabama.....	8	7	3,079	6,176	2,922	5,366	5,481	12,467	16,753	29,221	199		
West South Central.....	13	11	1,613	3,319	1,481	2,645	2,554	4,892	6,948	11,841	154		
Texas.....	9	7	602	1,428	525	1,012	947	1,952	1,982	3,935	66		
West.....	67	52	4,173	11,189	3,669	6,452	8,623	17,092	17,915	35,008	335		
California.....	61	48	3,483	9,078	3,164	5,574	7,480	13,911	13,436	27,348	317		

See footnotes at end of table.

## MEN'S AND BOYS' FURNISHINGS, WORK CLOTHING, AND ALLIED GARMENTS

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Table 2.—GENERAL STATISTICS BY REGIONS AND STATES: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Industry, region, and State <sup>1</sup>	1954											1947	
	Establishments, number		All employees		Production workers			Value added by manufacture	Cost of materials, etc.	Value of shipments	Capital expenditures, new	All employees, number	Value added by manufacture
	Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)		(\$1,000)
"Jobbers" (S.I.C. 2321, Pt. B), total..	193	58	6,434	20,436	4,846	7,054	9,062	52,969	235,555	288,525	357		
New England.....	5	2	1,115	2,706	1,029	1,715	2,136	2,678	14,969	17,649	(D)		
Middle Atlantic.....	161	40	3,346	12,051	2,280	2,733	3,761	38,508	182,608	221,117	157		
New York.....	149	32	2,279	8,725	1,348	1,031	1,520	24,344	150,268	174,613	129		
North Central.....	5	4	633	2,542	462	887	1,187	3,029	8,450	11,480	(D)		
South.....	10	8	1,019	2,026	804	1,221	1,212	6,105	22,873	28,979	131		
Pacific.....	12	4	319	1,110	270	497	766	2,647	6,652	9,300	14		
California.....	12	4	319	1,110	270	497	766	2,647	6,652	9,300	14		
"Contractors" (S.I.C. 2321, Pt. C), total..	389	345	49,287	94,548	47,467	86,940	86,929	111,279	15,444	126,724	2,350	(NA)	(NA)
New England.....	26	26	3,130	6,901	3,042	5,316	6,280	8,633	729	9,363	(D)		
New Hampshire.....	3	3	325	827	313	551	692	1,022	94	1,116	8		
Massachusetts.....	10	10	1,369	2,945	1,342	2,479	2,788	3,735	316	4,052	29		
Middle Atlantic.....	160	135	16,237	35,462	15,573	27,229	32,365	41,378	5,592	46,972	392		
New York.....	60	43	3,999	9,192	3,795	6,527	8,320	10,712	1,002	11,715	(D)		
North Central.....	12	11	1,261	2,562	1,202	2,076	2,295	2,854	258	3,113	(D)		
South.....	160	154	27,335	46,751	26,356	50,088	43,244	54,776	8,445	63,221	1,727		
North Carolina.....	15	14	2,260	3,667	2,204	3,756	3,395	4,349	581	4,930	212		
Florida.....	5	4	572	762	563	946	735	925	80	1,005	13		
Tennessee.....	20	20	4,811	7,545	4,668	8,104	6,968	8,597	1,044	9,642	251		
Alabama.....	17	17	3,027	4,937	2,927	5,425	4,659	6,065	473	6,539	180		
Mississippi.....	15	15	3,513	6,191	3,383	8,721	5,657	7,324	1,086	8,410	216		
West.....	31	19	1,323	2,872	1,293	2,230	2,744	3,635	418	4,054	159		
Men's and boys' underwear (S.I.C. 2322), total.....	82	60	9,385	18,923	8,827	15,325	16,289	29,952	44,371	74,324	1,168	7,269	20,348
Northeast.....	38	21	1,590	3,442	1,466	2,322	2,594	4,385	8,855	13,241	65	2,109	6,368
Pennsylvania.....	14	9	704	1,338	668	1,140	1,203	1,919	3,298	5,218	53	1,254	3,939
East North Central.....	5	3	583	1,168	529	981	1,020	1,651	1,990	3,641	(D)		
West North Central.....	4	4	453	946	435	756	870	2,966	2,082	5,049	(D)		
South and West.....	35	32	6,758	13,366	6,395	11,265	11,803	20,949	31,443	52,393	1,093	5,160	13,980
North Carolina.....	6	6	1,056	1,670	1,029	1,792	1,544	2,338	3,126	5,465	22		
South Carolina.....	5	5	866	1,582	843	1,539	1,488	1,978	4,612	6,590	(D)		
Kentucky.....	5	5	2,342	5,529	2,145	3,467	4,652	8,803	12,905	21,708	(D)		
"Manufacturers" (S.I.C. 2322, Pt. A), total.....	49	34	6,456	13,406	6,070	10,508	11,710	23,329	36,090	59,420	982		
Northeast.....	21	11	784	1,500	746	1,116	1,309	1,795	3,321	5,117	10		
All other regions.....	28	23	5,671	11,905	5,322	9,390	10,400	21,533	32,768	54,302	971		
"Jobbers" (S.I.C. 2322, Pt. B), total..	7	3	415	1,239	343	591	630	1,814	7,087	8,902	9	(NA)	(NA)
"Contractors" (S.I.C. 2322, Pt. C), total..	26	23	2,513	4,277	2,413	4,226	3,948	4,808	1,193	6,002	176		
All other States.....	20	17	1,999	3,374	1,921	3,396	3,117	3,759	900	4,660	121		
Pennsylvania.....	6	6	511	900	489	827	828	1,048	290	1,339	53		
Men's and boys' neckwear (S.I.C. 2323), total.....	403	127	9,483	27,797	8,051	13,789	19,056	48,237	51,798	100,036	423	10,744	50,708
New England.....	34	9	797	2,009	694	1,121	1,486	3,643	3,149	6,793	19	1,031	4,294
Massachusetts.....	21	6	421	1,181	337	565	722	1,947	1,743	3,691	(D)	540	(D)
Connecticut.....	8	3	356	806	338	528	744	1,653	1,376	3,029	(D)	(D)	(D)
Middle Atlantic.....	260	86	5,624	17,694	4,831	8,448	12,470	30,165	35,418	65,584	232	6,546	34,451
New York.....	215	66	4,443	14,913	3,721	6,526	10,135	25,288	31,648	56,936	105	5,403	30,731
New Jersey.....	21	8	454	1,029	428	716	866	1,533	931	2,465	104	413	1,381
Pennsylvania.....	24	12	726	1,751	681	1,205	1,467	3,343	2,839	6,182	22	730	2,339
East North Central.....	35	9	881	2,342	722	1,093	1,417	3,505	3,845	7,350	(D)	997	4,425
Ohio.....	10	3	464	1,245	395	607	749	1,925	2,362	4,288	9	471	2,370

See footnotes at end of table.



## MANUFACTURES—INDUSTRY STATISTICS

Table 2.—GENERAL STATISTICS BY REGIONS AND STATES: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Industry, region, and State <sup>1</sup>	1954											1947	
	Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
	Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
Men's and boys' neckwear (S.I.C. 2323)—Continued													
West North Central.....	9	4	399	995	264	510	572	1,630	2,021	3,652	(D)	434	1,903
South.....	24	11	1,329	3,283	1,105	1,842	2,057	6,792	4,838	11,630	36	1,184	3,631
Maryland.....	11	5	245	562	194	316	342	1,038	1,016	2,055	(D)	332	1,019
Mountain.....	6	...	35	61	32	52	59	148	94	243	(D)	189	464
Pacific.....	35	8	475	1,412	401	719	993	2,351	2,430	4,782	18	363	1,540
"Manufacturers" (S.I.C. 2323, Pt. A), total.....	301	103	7,913	24,049	6,610	11,361	16,019	42,051	46,012	88,064	379		
New England.....	28	5	613	1,582	519	807	1,110	3,097	3,086	6,183	13		
Middle Atlantic.....	177	67	4,493	14,850	3,806	6,756	10,236	25,309	30,058	55,367	196		
New York.....	153	56	3,844	13,141	3,212	5,696	8,905	22,013	26,742	48,756	86		
New Jersey.....	7	2	164	376	149	230	269	525	582	1,107	(D)		
Pennsylvania.....	17	9	484	1,332	445	830	1,061	2,770	2,733	5,504	(D)		
North Central.....	40	13	1,175	3,231	946	1,540	1,903	4,840	5,545	10,385	102		
Missouri.....	4	2	238	709	183	355	362	1,089	1,505	2,595	(D)		
South and West.....	56	18	1,631	4,385	1,337	2,256	2,768	8,804	7,322	16,127	67		
California.....	26	7	408	1,192	345	619	882	2,060	2,234	4,295	16		
"Jobbers" (S.I.C. 2323, Pt. B), total..	27	2	197	754	113	161	239	1,995	4,928	6,924	13	(NA)	(NA)
Middle Atlantic.....	23	2	158	669	80	112	175	1,729	4,634	6,363	(D)		
All other divisions.....	4	...	38	84	32	48	63	265	294	560	(D)		
"Contractors" (S.I.C. 2323, Pt. C), total..	75	22	1,372	2,993	1,327	2,266	2,796	4,190	857	5,047	30		
New England.....	6	4	184	427	175	314	376	546	63	610	6		
Middle Atlantic.....	60	17	972	2,174	944	1,580	2,058	3,126	726	3,853	(D)		
Pennsylvania.....	7	3	242	418	236	375	406	573	105	678	(D)		
All other divisions.....	9	1	215	391	207	370	361	516	66	583	(D)		
Men's and boys' cloth hats (S.I.C. 2325), total.....	415	111	8,079	21,457	7,451	14,011	17,977	33,030	25,257	58,287	263	5,541	20,685
Northeast.....	267	53	3,725	10,554	3,426	6,471	9,029	16,134	12,480	28,615	106	2,295	10,649
New York.....	194	38	2,669	7,739	2,482	4,707	6,740	11,796	8,731	20,528	68	1,625	7,934
Pennsylvania.....	24	5	364	976	312	591	764	1,635	1,643	3,279	17	324	(D)
East North Central.....	52	15	1,321	3,589	1,187	2,102	2,710	6,044	4,102	10,147	19	1,415	4,397
Ohio.....	14	1	145	343	126	241	264	463	517	981	...	140	467
Illinois.....	24	11	954	2,678	871	1,510	2,018	4,637	2,999	7,637	(D)	999	3,071
West North Central.....	37	25	1,779	4,370	1,674	3,219	3,731	6,141	4,799	10,941	48	1,290	3,695
Missouri.....	25	21	1,523	3,520	1,458	2,784	3,127	5,071	4,192	9,264	(D)	1,122	3,143
South and West.....	59	18	1,252	2,943	1,161	2,218	2,504	4,709	3,874	8,583	88	541	1,944
Maryland.....	6	3	159	303	150	274	270	451	273	725	3	58	(D)
Kentucky.....	4	3	173	495	161	324	437	832	627	1,459	15	75	(D)
Texas.....	8	3	190	382	182	343	355	669	522	1,192	21	(D)	(D)
California.....	19	...	145	414	136	268	371	593	650	1,244	1	(D)	(D)
Hat and cap materials (S.I.C. 2326), total..	63	12	936	2,941	796	1,424	2,145	4,579	5,090	9,669	28	1,111	5,620
New York.....	53	10	802	2,527	679	1,191	1,833	4,007	4,350	8,358	19	925	4,580
Pennsylvania.....	4	2	103	316	94	195	268	404	483	888	(D)	(D)	(D)
All other States.....	6	...	31	98	23	36	44	171	257	423	1	24	126
Separate trousers (S.I.C. 2327), total..	798	410	51,652	118,688	48,315	86,421	99,562	181,309	216,376	397,685	2,776	47,279	159,439
New England.....	54	26	1,712	4,114	1,546	2,533	3,193	5,886	6,726	12,613	40	2,054	6,559
Maine.....	5	3	189	388	177	310	325	478	128	606	4	216	(D)
Massachusetts.....	36	16	1,097	2,712	973	1,596	2,003	4,176	5,755	9,932	31	1,134	4,025
Connecticut.....	13	7	426	1,013	394	625	864	1,232	842	2,074	4	599	1,698

See footnotes at end of table.

## MEN'S AND BOYS' FURNISHINGS, WORK CLOTHING, AND ALLIED GARMENTS

23B-9

Table 2.—GENERAL STATISTICS BY REGIONS AND STATES: 1954 AND 1947—Continued

(For explanation of column captions see Introduction)

Industry, region, and State <sup>1</sup>	1954										1947		
	Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
	Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
Separate trousers (S.I.C. 2327)—Continued													
Middle Atlantic.....	393	171	15,727	41,154	14,649	25,224	35,010	62,000	74,300	136,301	436	20,488	72,813
New York.....	250	79	5,037	14,616	4,529	7,407	11,372	25,886	47,996	73,883	183	7,299	34,689
New Jersey.....	24	16	1,060	2,654	1,012	1,604	2,411	3,214	1,073	4,288	11	2,138	7,419
Pennsylvania.....	119	76	9,629	23,884	9,107	16,213	21,226	32,899	25,229	58,129	241	11,051	30,705
East North Central.....	91	41	4,864	11,845	4,450	7,512	9,376	19,842	20,904	40,747	259	5,696	22,024
Ohio.....	22	13	2,052	4,895	1,839	3,096	3,799	7,623	7,958	15,581	117	2,116	8,014
Indiana.....	9	9	1,069	3,003	964	1,613	2,085	6,174	6,778	12,953	87	1,170	4,830
Illinois.....	48	13	1,251	2,861	1,191	2,000	2,579	4,460	4,952	9,413	28	1,894	7,123
Michigan.....	7	2	200	444	181	272	345	601	472	1,074	(D)	243	1,000
Wisconsin.....	5	4	289	641	274	530	566	983	743	1,726	(D)	273	1,057
West North Central.....	37	27	3,391	6,984	3,185	5,940	5,811	10,752	11,869	22,621	97	3,144	9,092
Missouri.....	31	24	3,239	6,686	3,041	5,683	5,539	10,076	11,274	21,351	88	2,226	6,783
South Atlantic.....	81	59	9,506	19,184	8,979	16,605	16,155	26,968	31,768	58,737	865	6,226	17,195
Maryland.....	40	22	1,691	4,129	1,530	2,735	3,204	6,763	9,697	16,461	114	1,640	6,323
Virginia.....	5	5	1,698	3,004	1,661	3,101	2,856	3,981	3,716	7,697	20	1,356	2,502
Georgia.....	27	26	5,381	10,700	5,096	9,478	8,920	14,378	17,001	31,379	682	2,801	7,612
Florida.....	4	2	237	503	207	433	378	808	893	1,702	16	(D)	(D)
East South Central.....	45	40	10,116	20,179	9,672	17,983	17,698	31,310	32,444	63,755	622	5,070	11,687
Kentucky.....	5	4	760	1,442	727	1,329	1,305	1,803	2,683	4,486	14	911	2,123
Tennessee.....	12	12	2,685	5,050	2,595	4,772	4,677	6,759	6,870	13,630	129	1,547	(D)
Alabama.....	13	12	2,646	5,540	2,471	4,651	4,491	10,276	9,869	20,145	193	631	1,543
Mississippi.....	15	12	4,024	8,146	3,879	7,230	7,225	12,470	13,022	25,493	285	1,981	(D)
West South Central.....	34	30	3,683	7,472	3,527	6,423	6,659	12,734	23,585	36,320	301	2,424	10,922
Louisiana.....	10	8	750	1,321	686	1,191	1,080	1,814	2,539	4,353	(D)	(D)	(D)
Texas.....	19	18	2,198	4,802	2,127	3,920	4,306	8,539	12,878	21,417	(D)	1,750	9,437
West.....	63	16	2,651	7,753	2,303	4,197	5,658	11,813	14,777	26,590	153	2,177	9,147
California.....	55	11	1,912	5,750	1,699	3,067	4,376	8,631	10,204	18,835	73	1,817	7,776
"Manufacturers" (S.I.C. 2327, Pt. A), total.....	212	139	21,938	51,749	20,197	36,826	41,333	81,435	103,513	184,948	1,240		
New England.....	17	11	690	1,915	610	985	1,362	2,808	3,531	6,339	16		
Middle Atlantic.....	69	29	3,812	9,920	3,482	6,378	8,100	14,812	19,635	34,448	97		
New York.....	45	8	918	2,842	814	1,438	2,206	5,090	5,682	10,773	22		
New Jersey.....	4	3	149	413	141	270	347	363	560	924	...		
Pennsylvania.....	20	18	2,744	6,665	2,527	4,669	5,546	9,358	13,392	22,751	74		
East North Central.....	31	24	3,331	8,071	3,016	5,172	6,267	14,173	16,713	30,887	177		
Ohio.....	11	10	1,716	4,145	1,513	2,610	3,081	6,703	7,801	14,505	108		
Illinois.....	7	5	528	1,204	509	888	1,111	2,335	3,300	5,635	10		
West North Central.....	14	11	1,146	2,489	1,058	1,937	2,054	4,389	5,386	9,775	22		
Minnesota.....	3	3	139	273	132	240	250	628	583	1,212	7		
South Atlantic.....	27	24	5,452	11,657	5,105	9,420	9,402	17,076	24,166	41,243	608		
Maryland.....	8	6	627	1,834	558	1,121	1,313	3,273	3,550	6,823	28		
Georgia.....	12	12	3,415	7,339	3,198	5,912	5,827	10,276	15,674	25,951	559		
East South Central.....	14	14	4,426	9,389	4,198	7,935	7,945	15,460	19,585	35,045	163		
Tennessee.....	5	5	1,599	3,028	1,556	3,046	2,838	4,186	6,226	10,412	88		
Alabama.....	5	5	1,112	2,601	1,000	1,867	1,824	5,273	4,509	9,782	33	(NA)	(NA)
West South Central.....	15	14	1,020	1,889	948	1,656	1,597	3,145	3,041	6,186	51		
Texas.....	7	7	393	871	364	644	697	1,651	1,434	3,085	14		
West.....	25	12	2,061	6,416	1,776	3,339	4,603	9,569	11,453	21,022	103		
California.....	20	8	1,385	4,563	1,223	2,302	3,428	6,785	8,150	14,935	35		
"Jobbers" (S.I.C. 2327, Pt. B), total..	169	23	2,826	8,983	2,086	3,453	4,501	22,978	85,290	108,269	298		
New England.....	14	1	194	451	144	250	254	955	2,825	3,781	(D)		
Massachusetts.....	10	1	176	404	134	235	237	814	2,236	3,051	(D)		
Middle Atlantic.....	117	12	1,250	4,711	846	1,285	2,014	12,597	49,852	62,449	142		
New York.....	93	10	803	3,510	470	612	1,215	9,479	39,453	48,933	120		
Pennsylvania.....	19	2	437	1,169	372	666	789	3,012	10,113	13,126	22		
East North Central.....	9	1	160	738	108	204	287	1,985	3,407	5,393	(D)		
West North Central.....	5	2	124	462	70	64	80	1,232	4,848	6,081	16		
Missouri.....	5	2	124	462	70	64	80	1,232	4,848	6,081	16		
South.....	17	6	1,000	2,364	858	1,537	1,724	5,516	21,777	27,293	56		
Pacific.....	7	1	97	255	59	112	141	691	2,579	3,271	23		

See footnotes at end of table.

## MANUFACTURES--INDUSTRY STATISTICS

Table 2.—GENERAL STATISTICS BY REGIONS AND STATES: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Industry, region, and State <sup>1</sup>	1954											1947	
	Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
	Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
"Contractors" (S.I.C. 2327, Pt. C), total..	417	248	26,050	56,220	25,265	44,728	52,258	72,327	13,723	86,051	1,199	(NA)	(NA)
New England.....	23	14	828	1,747	791	1,297	1,576	2,123	369	2,492	(D)		
Connecticut.....	8	6	367	860	350	547	775	937	131	1,068	3		
Middle Atlantic.....	208	131	10,347	25,868	10,029	16,977	24,277	33,568	2,809	36,378	188		
New York.....	112	62	3,310	8,235	3,245	5,356	7,950	11,031	877	11,909	41		
New Jersey.....	15	13	901	2,209	867	1,328	2,055	2,746	228	2,974	10		
Pennsylvania.....	80	55	6,135	15,423	5,917	10,292	14,271	19,791	1,702	21,494	136		
East North Central.....	51	16	1,372	3,035	1,325	2,136	2,821	3,683	783	4,467	(D)		
West North Central.....	18	14	2,121	4,033	2,056	3,938	3,676	5,130	1,634	6,765	58		
South.....	87	70	11,076	20,883	10,766	19,922	19,291	26,933	7,970	34,903	897		
Tennessee.....	7	7	1,085	2,021	1,038	1,725	1,838	2,573	644	3,217	41		
Mississippi.....	10	10	2,779	5,295	2,702	5,095	4,855	7,400	4,190	11,590	246		
Texas.....	12	11	1,794	3,880	1,762	3,275	3,608	4,740	443	5,183	(D)		
Pacific.....	31	3	304	653	295	457	616	887	157	1,045	7		
Work shirts (S.I.C. 2328), total.....	52	44	6,992	11,468	6,789	11,425	10,632	16,652	21,648	38,300	176	12,061	33,212
Northeast and North Central.....	12	8	1,125	1,858	1,082	1,633	1,650	2,596	3,605	6,201	9	2,767	8,918
Pennsylvania.....	7	3	387	597	370	554	539	962	1,011	1,974	(D)	(D)	(D)
South Atlantic.....	11	9	542	922	517	944	904	1,178	2,505	3,683	(D)	(D)	(D)
East South Central.....	26	24	5,137	8,385	5,009	8,535	7,797	12,541	15,252	27,792	122	7,202	(D)
Tennessee.....	12	11	2,782	4,400	2,716	4,551	4,122	7,330	10,050	17,380	65	4,444	10,965
West South Central.....	3	3	187	301	179	311	278	336	285	622	(D)	(D)	(D)
Men's and boys' clothing, n.e.c. (S.I.C. 2329), total.....	1,117	721	90,759	200,730	82,510	146,446	160,573	321,655	471,231	792,886	5,473	74,833	219,195
New England.....	101	52	4,045	10,350	3,619	6,596	8,174	15,521	18,869	34,391	217	4,163	13,812
Maine.....	5	3	263	696	230	401	491	1,321	1,211	2,533	(D)	277	950
Massachusetts.....	79	39	2,883	7,315	2,612	4,798	5,937	10,408	13,176	23,585	145	2,899	9,678
Connecticut.....	7	3	259	617	235	429	511	857	996	1,854	20	197	664
Middle Atlantic.....	413	215	19,401	50,459	17,456	31,378	39,546	74,910	93,150	168,060	1,185	16,675	54,505
New York.....	247	106	8,356	24,270	7,336	12,665	17,851	37,314	57,854	95,169	502	6,582	25,134
New Jersey.....	41	24	2,296	5,936	2,067	3,496	4,909	8,557	7,580	16,138	56	2,316	8,220
Pennsylvania.....	125	85	8,748	20,252	8,051	15,217	16,785	29,038	27,715	56,753	625	7,777	21,151
East North Central.....	148	92	9,859	24,285	8,745	15,556	18,144	37,372	54,982	92,355	497	10,785	33,630
Ohio.....	23	11	1,422	3,442	1,249	2,114	2,327	4,787	10,715	15,502	106	1,937	6,338
Indiana.....	34	25	3,946	8,810	3,506	6,224	6,829	15,865	20,577	36,443	121	3,915	10,885
Illinois.....	55	32	2,356	6,545	2,102	3,884	4,913	8,850	13,289	22,139	175	2,596	8,895
Michigan.....	22	14	939	2,200	835	1,497	1,738	3,156	3,934	7,090	60	1,075	3,171
Wisconsin.....	14	10	1,194	3,287	1,051	1,835	2,335	4,713	6,465	11,179	33	1,262	4,341
West North Central.....	76	63	8,236	19,642	7,222	12,658	14,811	26,896	39,873	66,770	355	8,540	23,226
Minnesota.....	14	13	1,479	4,300	1,254	2,363	3,019	5,695	6,137	11,833	74	1,446	5,276
Missouri.....	39	33	5,111	11,937	4,520	7,859	9,114	16,099	25,933	42,032	231	5,290	13,149
South Atlantic.....	125	106	15,998	30,031	14,645	25,323	24,493	44,768	80,952	125,721	1,294	12,839	35,254
Maryland.....	26	20	1,037	2,107	975	1,729	1,746	3,272	3,983	7,255	31	1,572	4,781
Virginia.....	20	20	3,472	5,967	3,305	5,418	5,255	10,302	24,017	34,320	152	2,906	8,894
North Carolina.....	17	15	3,125	5,838	2,842	4,659	4,658	9,191	14,524	23,716	233	2,419	7,263
Georgia.....	46	40	7,463	14,301	6,712	12,060	11,397	19,216	34,164	53,381	830	4,873	11,451
East South Central.....	81	76	15,702	28,241	14,783	26,010	24,732	48,079	99,152	147,231	858	8,786	19,467
Kentucky.....	22	22	3,605	6,329	3,495	5,883	5,824	9,445	10,690	20,136	108	1,145	2,440
Tennessee.....	31	28	5,803	10,883	5,288	9,645	9,344	20,321	48,807	69,128	402	4,648	9,808
Alabama.....	15	13	2,232	3,671	2,160	3,543	3,255	7,411	17,167	24,579	168	589	1,727
Mississippi.....	13	13	4,061	7,357	3,839	6,938	6,308	10,901	22,487	33,388	180	2,404	5,492
West South Central.....	73	63	12,586	24,793	11,603	21,138	20,528	40,382	56,555	96,938	625	8,904	24,261
Arkansas.....	8	8	1,885	3,817	1,774	2,923	3,109	5,199	4,236	9,436	48	1,221	2,913
Texas.....	52	43	9,026	17,728	8,272	15,308	14,703	29,877	44,322	74,200	502	6,772	19,106
Mountain.....	5	3	502	1,223	442	871	961	1,210	3,136	4,346	16	535	1,708
Pacific.....	95	51	4,426	11,703	3,992	6,913	9,180	32,512	24,558	57,071	423	3,606	13,332
California.....	82	43	3,672	9,573	3,336	5,771	7,561	28,717	19,736	48,453	233	2,649	10,009

See footnotes at end of table.



## MEN'S AND BOYS' FURNISHINGS, WORK CLOTHING, AND ALLIED GARMENTS

23B-11

Table 2.—GENERAL STATISTICS BY REGIONS AND STATES: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Industry, region, and State <sup>1</sup>	1954											1947	
	Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
	Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
"Manufacturers" (S.I.C. 2329, Pt. A), total.....	694	459	61,999	140,340	55,821	99,586	110,137	217,421	329,281	540,702	3,893		
New England.....	76	40	2,989	7,832	2,646	4,869	6,101	11,797	16,100	27,898	187		
Maine.....	5	3	149	321	142	250	305	784	723	1,508	(D)		
Massachusetts.....	57	28	2,004	5,314	1,783	3,310	4,171	7,438	10,969	18,408	125		
Middle Atlantic.....	196	105	9,499	26,064	8,326	15,288	19,610	39,418	49,019	88,437	482		
New York.....	119	55	4,487	13,677	3,837	6,937	9,662	20,824	27,099	47,923	257		
New Jersey.....	19	10	1,170	3,449	982	1,753	2,614	4,960	7,029	11,989	42		
Pennsylvania.....	58	40	3,842	8,937	3,506	6,598	7,333	13,633	14,891	28,524	181		
East North Central.....	121	72	8,902	22,144	7,847	13,962	16,455	34,500	50,470	84,970	442		
Illinois.....	40	23	1,794	5,420	1,566	2,917	3,901	7,551	13,087	20,639	147		
Michigan.....	17	10	774	1,892	677	1,227	1,468	2,798	3,893	6,692	(D)		
Wisconsin.....	14	10	1,194	3,287	1,051	1,835	2,335	4,713	6,465	11,179	33		
West North Central.....	56	47	6,719	16,186	5,894	10,338	12,306	22,466	34,762	57,229	285		
Missouri.....	27	23	3,871	8,948	3,458	5,959	7,029	12,216	20,928	33,144	164		
South Atlantic.....	81	71	11,312	21,808	10,162	17,824	17,209	30,864	57,125	87,990	1,164		
Maryland.....	10	7	328	668	285	488	489	1,176	1,440	2,616	2		
Virginia.....	9	9	1,237	2,428	1,121	1,986	1,943	3,485	5,693	9,178	111		
North Carolina.....	14	12	2,677	5,053	2,408	3,819	3,932	7,958	14,320	22,279	212		
Georgia.....	37	33	6,269	12,070	5,617	10,198	9,525	15,869	32,556	48,426	795		
Florida.....	7	7	617	1,226	560	1,049	1,008	1,779	2,095	3,874	39		
East South Central.....	44	41	9,701	17,953	9,242	16,317	15,838	32,360	55,734	88,095	437		
Kentucky.....	8	8	1,305	2,747	1,251	2,206	2,472	5,061	10,262	15,324	38		
Tennessee.....	20	18	3,849	7,311	3,673	6,659	6,565	13,802	20,079	33,881	161		
Alabama.....	8	7	1,330	2,146	1,291	1,994	1,932	5,121	9,186	14,308	100		
Mississippi.....	8	8	3,217	5,749	3,027	5,457	4,868	8,375	16,207	24,582	137		
West South Central.....	51	43	8,918	18,058	8,134	14,761	14,332	29,228	44,314	73,542	500		
Texas.....	37	30	6,646	13,405	6,063	11,147	10,807	21,357	32,139	53,497	422		
Mountain.....	5	3	502	1,223	442	871	961	1,210	3,136	4,346	16		
Pacific.....	64	37	3,452	9,070	3,124	5,353	7,322	15,574	18,618	34,193	377		
"Jobbers" (S.I.C. 2329, Pt. B), total..	96	30	4,532	12,357	3,515	6,121	6,965	43,676	130,496	174,172	312		
New England.....	6	1	54	224	31	51	94	682	1,972	2,654	...		
Middle Atlantic.....	60	15	1,138	4,346	813	1,371	2,000	9,741	39,144	48,886	158		
New York.....	46	13	1,000	3,705	738	1,230	1,812	7,902	29,795	37,698	141		
North Central.....	7	3	282	1,308	118	225	332	2,129	8,909	11,038	16		
South.....	16	9	2,892	5,655	2,454	4,290	4,260	16,774	75,538	92,313	128		
Pacific.....	7	2	165	823	98	182	277	14,349	4,931	19,281	9		
California.....	7	2	165	823	98	182	277	14,349	4,931	19,281	9		
"Contractors" (S.I.C. 2329, Pt. C), total..	327	232	24,112	47,657	23,085	40,588	43,284	60,021	10,964	70,986	1,267		
New England.....	19	11	887	1,918	853	1,526	1,793	2,505	308	2,813	29		
Middle Atlantic.....	157	99	8,762	20,049	8,316	14,718	17,935	25,751	4,986	30,737	544		
New York.....	82	42	2,868	6,888	2,759	4,496	6,376	8,587	959	9,547	104		
North Central.....	40	29	2,191	4,288	2,106	3,687	3,861	5,173	714	5,888	109		
Michigan.....	5	4	164	307	157	269	270	357	40	398	(D)		
South.....	87	81	11,463	19,591	11,038	19,279	18,114	24,002	3,948	27,950	548		
North Carolina.....	3	3	448	785	434	840	726	1,233	203	1,436	21		
Kentucky.....	14	14	2,300	3,582	2,244	3,677	3,352	4,383	428	4,812	69		
Pacific.....	24	12	808	1,810	769	1,376	1,580	2,589	1,008	3,597	35		

Note: Detailed figures may not add to the totals because of independent rounding. Data for industries 2321, 2327, 2328, and 2329 include a total of 24 establishments with 3,242 employees, \$70,317 thousand, value of shipments and \$18,506 thousand value added by manufacture which are not included in the separate totals for manufacturers, jobbers, or contractors.

D Withheld to avoid disclosing figures for individual companies.

NA Not available.

<sup>1</sup>General statistics for some producing States are not shown separately in the table (see INTRODUCTION "Confidentiality of Data for Individual Companies"). Such States are shown below with the number of establishments in each State for 1954 and, in parentheses, the number of employees or the employment-size range for that State for 1954:

S.I.C. 2321, Men's Dress Shirts and Nightwear: New England—Maine, 4 (500-999); Vermont, 1 (20-99); East North Central—Indiana, 4 (1,325); Michigan, 3 (1-19); Wisconsin, 2 (100-249); West North Central—Nebraska, 4 (100-249); Kansas, 2 (100-249); South Atlantic—Delaware, 4 (500-999); West Virginia, 1 (20-99); West South Central—Louisiana, 1 (100-249); Texas, 13 (500-999); Mountain—Colorado, 2 (250-499); Arizona, 3 (20-99); Pacific—Washington, 1 (1-19); Oregon, 1 (250-499); California, 103 (5,000-9,999).

Footnotes continued on next page

S.I.C. 2321, Pt. A, Manufacturers: New England—Maine, 1 (20-99); Massachusetts, 11 (500-999); East North Central—Ohio, 10 (500-999); Indiana, 2 (500-999); Illinois, 14 (500-999); Michigan, 3 (1-19); Wisconsin, 1 (20-99); West North Central—Minnesota, 4 (250-499); Nebraska, 1 (20-99); Kansas, 1 (1-19); South Atlantic—Delaware, 2 (500-999); North Carolina, 10 (1,000-2,499); East South Central—Kentucky, 5 (500-999); Mississippi, 3 (1,000-2,499); West South Central—Arkansas, 3 (500-999); Louisiana, 1 (100-249); West—Colorado, 2 (250-499); Arizona, 2 (20-99); Washington, 1 (1-19); Oregon, 1 (250-499).

S.I.C. 2321, Pt. B, Jobbers: New England—Maine, 1 (250-499); Massachusetts, 2 (500-999); Connecticut, 2 (1-19); Middle Atlantic—New Jersey, 1 (500-999); Pennsylvania, 11 (250-499); North Central—Ohio, 2 (500-999); Illinois, 1 (1-19); Missouri, 1 (20-99); Nebraska, 1 (20-99); South—Maryland, 1 (1-19); Virginia, 1 (100-249); North Carolina, 1 (100-249); South Carolina, 2 (20-99); Georgia, 3 (100-249); Mississippi, 2 (250-499).

S.I.C. 2321, Pt. C, Contractors: New England—Maine, 2 (250-499); Vermont, 1 (20-99); Connecticut, 10 (1,000-2,499); Middle Atlantic—New Jersey, 25 (1,000-2,499); Pennsylvania, 75 (5,000-9,999); North Central—Indiana, 2 (500-999); Wisconsin, 1 (20-99); Minnesota, 1 (100-249); Missouri, 5 (250-499); Nebraska, 2 (100-249); Kansas, 1 (100-249); South—Delaware, 2 (250-499); Maryland, 15 (1,000-2,499); Virginia, 10 (1,000-2,499); West Virginia, 1 (20-99); South Carolina, 27 (2,500-4,999); Georgia, 22 (4,027); Kentucky, 4 (500-999); Arkansas, 3 (250-499); Texas, 4 (20-99); West—Arizona, 1 (1-19); California, 30 (1,000-2,499).

S.I.C. 2322, Men's and Boys' Underwear: Northeast—Massachusetts, 1 (20-99); New York, 19 (500-999); New Jersey, 4 (20-99); East North Central—Indiana, 3 (250-499); Illinois, 2 (100-249); West North Central—Minnesota, 2 (250-449); Missouri, 1 (20-99); Nebraska, 1 (20-99); South and West—Maryland, 3 (100-249); Virginia, 2 (100-249); Georgia, 4 (500-999); Tennessee, 3 (250-499); Alabama, 3 (250-499); Mississippi, 2 (250-499); Oklahoma, 1 (100-249); California, 1 (1-19).

S.I.C. 2322, Pt. A, Manufacturers: Northeast—Massachusetts, 1 (20-99); New York, 13 (500-999); New Jersey, 2 (20-99); Pennsylvania, 5 (20-99); All Other Regions—Indiana, 2 (100-249); Illinois, 2 (100-249); Minnesota, 2 (250-499); Missouri, 1 (20-99); Maryland, 2 (20-99); North Carolina, 4 (500-999); South Carolina, 2 (500-999); Georgia, 2 (500-999); Kentucky, 3 (1,000-2,499); Tennessee, 2 (250-499); Alabama, 2 (100-249); Mississippi, 2 (250-499); Oklahoma, 1 (100-249); California, 1 (1-19).

S.I.C. 2322, Pt. B, Jobbers: All Other States—New York, 2 (20-99); New Jersey, 1 (1-19); Pennsylvania, 3 (100-249); South Atlantic—South Carolina, 1 (100-249).

S.I.C. 2322, Pt. C, Contractors: All Other States—New York, 4 (100-249); New Jersey, 1 (1-19); Indiana, 1 (100-249); West North Central—Nebraska, 1 (20-99); Maryland, 1 (20-99); Virginia, 2 (100-249); North Carolina, 2 (250-499); South Carolina, 2 (20-99); Georgia, 2 (100-249); Kentucky, 2 (250-499); Tennessee, 1 (20-99); Alabama, 1 (100-249).

S.I.C. 2323, Men's and Boys' Neckwear: New England—Maine, 1 (1-19); New Hampshire, 1 (1-19); Vermont, 1 (1-19); Rhode Island, 2 (1-19); East North Central—Illinois, 22 (250-499); Michigan, 3 (20-99); West North Central—Minnesota, 2 (20-99); Missouri, 6 (250-499); Nebraska, 1 (1-19); South—North Carolina, 3 (100-249); South Carolina, 1 (1-19); Kentucky, 3 (100-249); Arkansas, 1 (1-19); Louisiana, 2 (500-999); Texas, 3 (20-99); Mountain—Colorado, 2 (1-19); New Mexico, 2 (1-19); Arizona, 1 (1-19); Utah, 1 (1-19); Pacific—Washington, 2 (20-99); Oregon, 1 (1-19); California, 32 (250-499).

S.I.C. 2323, Pt. A, Manufacturers: New England—Maine, 1 (1-19); Vermont, 1 (1-19); Massachusetts, 19 (250-499); Rhode Island, 2 (1-19); Connecticut, 5 (250-499); North Central—Ohio, 9 (250-499); Illinois, 21 (250-499); Michigan, 3 (20-99); Minnesota, 2 (20-99); Nebraska, 1 (1-19); South and West—Maryland, 10 (100-249); North Carolina, 2 (20-99); South Carolina, 1 (1-19); Kentucky, 2 (100-249); Arkansas, 1 (1-19); Louisiana, 2 (500-999); Texas, 3 (20-99); Colorado, 2 (1-19); New Mexico, 2 (1-19); Arizona, 1 (1-19); Utah, 1 (1-19); Washington, 2 (20-99); Oregon, 1 (1-19).

S.I.C. 2323, Pt. B, Jobbers: Middle Atlantic—New Jersey, 22 (100-249); Pennsylvania, 1 (1-19); All Other Divisions—Ohio, 1 (1-19); Missouri, 2 (20-99); California, 1 (1-19).

S.I.C. 2323, Pt. C, Contractors: New England—New Hampshire, 1 (1-19); Massachusetts, 2 (20-99); Connecticut, 3 (20-99); Middle Atlantic—New York, 40 (250-499); New Jersey, 13 (250-499); All Other Divisions—Illinois, 1 (1-19); Maryland, 1 (1-19); North Carolina, 1 (100-249); Kentucky, 1 (1-19); California, 5 (1-19).

S.I.C. 2325, Men's and Boys' Cloth Hats: Northeast—Maine, 2 (1-19); Massachusetts, 24 (100-249); Connecticut, 6 (20-99); New Jersey, 17 (250-499); East North Central—Indiana, 2 (20-99); Michigan, 4 (20-99); Wisconsin, 8 (100-249); West North Central—Minnesota, 9 (100-249); Iowa, 3 (20-99); South and West—Virginia, 2 (20-99); North Carolina, 1 (1-19); Georgia, 1 (20-99); Florida, 7 (100-249); Tennessee, 3 (20-99); Alabama, 3 (100-249); Colorado, 3 (100-249); Washington, 1 (1-19); Oregon, 1 (1-19).

S.I.C. 2326, Hat and Cap Materials: All Other States—New Jersey, 1 (1-19); Illinois, 3 (20-99); Missouri, 2 (1-19).

S.I.C. 2327, Separate Trousers: West North Central—Minnesota, 4 (100-249); Iowa, 1 (1-19); Nebraska, 1 (1-19); South Atlantic—West Virginia, 2 (100-249); North Carolina, 2 (250-499); South Carolina, 1 (20-99); West South Central—Arkansas, 3 (500-999); Oklahoma, 2 (100-249); West—Colorado, 2 (100-249); Washington, 6 (500-999).

S.I.C. 2327, Pt. A, Manufacturers: New England—Maine, 1 (1-19); Massachusetts, 14 (500-999); Connecticut, 2 (20-99); East North Central—Indiana, 6 (500-999); Michigan, 5 (100-249); Wisconsin, 2 (100-249); West North Central—Missouri, 10 (1,000-2,499); Nebraska, 1 (1-19); South Atlantic—Virginia, 2 (1,000-2,499); West Virginia, 1 (100-249); South Carolina, 1 (20-99); Florida, 3 (100-249); East South Central—Kentucky, 2 (250-499); Mississippi, 2 (1,000-2,499); West South Central—Arkansas, 1 (20-74); Louisiana, 6 (500-999); Oklahoma, 1 (1-19); West—Colorado, 2 (100-249); Washington, 3 (250-499).

S.I.C. 2327, Pt. B, Jobbers: New England—Maine, 1 (1-19); Connecticut, 3 (1-19); Middle Atlantic—New Jersey, 5 (1-19); East North Central—Ohio, 2 (1-19); Indiana, 1 (100-249); Illinois, 6 (20-99); South—Maryland, 10 (100-249); Georgia, 1 (1-19); Alabama, 1 (250-499); Mississippi, 3 (1-19); West South Central—Arkansas, 1 (250-499); Louisiana, 1 (20-99); Pacific—Washington, 1 (20-99); California, 6 (20-99).

S.I.C. 2327, Pt. C, Contractors: New England—Maine, 3 (100-249); Massachusetts, 12 (250-499); East North Central—Ohio, 9 (250-499); Indiana, 2 (100-249); Illinois, 35 (500-999); Michigan, 2 (20-99); Wisconsin, 3 (100-249); West North Central—Minnesota, 1 (1-19); Iowa, 1 (1-19); Missouri, 16 (1,000-2,499); South—Maryland, 22 (500-999); Virginia, 3 (500-999); West Virginia, 1 (100-249); North Carolina, 2 (250-499); Georgia, 14 (1,000-2,499); Florida, 1 (1-19); Kentucky, 3 (250-499); Alabama, 6 (500-999); Arkansas, 1 (100-249); Louisiana, 3 (100-249); Oklahoma, 1 (100-249); Pacific—Washington, 2 (1-19); California, 28 (250-499).

S.I.C. 2328, Work Shirts: Northeast and North Central—New York, 2 (20-99); Indiana, 1 (250-499); Missouri, 2 (250-499); South Atlantic—Maryland, 2 (20-99); Virginia, 1 (20-99); North Carolina, 7 (250-499); Georgia, 1 (20-99); East South Central—Kentucky, 2 (500-999); Alabama, 2 (100-249); Mississippi, 10 (1,000-2,499); West South Central—Arkansas, 1 (20-99); Louisiana, 1 (20-99); Texas, 1 (20-99).

S.I.C. 2329, Men's and Boys' Clothing, N.E.C.: New England—New Hampshire, 4 (100-249); Vermont, 5 (20-99); Rhode Island, 3 (250-499); West North Central—Iowa, 17 (1,013); Nebraska, 1 (20-99); Kansas, 5 (500-999); South Atlantic—Delaware, 1 (20-99); West Virginia, 3 (100-249); South Carolina, 2 (20-99); Florida, 10 (500-999); West South Central—Louisiana, 5 (1,151); Oklahoma, 8 (500-999); Mountain—Wyoming, 1 (1-19); Colorado, 1 (250-499); Arizona, 2 (20-99); Utah, 1 (100-249); Pacific—Washington, 11 (250-499); Oregon, 2 (250-499).

S.I.C. 2329, Pt. A, Manufacturers: New England—New Hampshire, 3 (100-249); Vermont, 3 (20-99); Rhode Island, 3 (250-499); Connecticut, 5 (100-249); East North Central—Ohio, 17 (1,000-2,499); Indiana, 33 (2,500-4,999); West North Central—Minnesota, 13 (1,000-2,499); Iowa, 11 (500-999); Nebraska, 1 (20-99); Kansas, 4 (500-999); South Atlantic—Delaware, 1 (20-99); West Virginia, 2 (100-249); South Carolina, 1 (1-19); Florida, 7 (500-999); West South Central—Arkansas, 3 (500-999); Louisiana, 4 (1,000-2,499); Oklahoma, 7 (250-499); Mountain—Wyoming, 1 (1-19); Colorado, 1 (250-499); Arizona, 2 (20-99); Utah, 1 (100-249); Pacific—Washington, 10 (250-499); Oregon, 2 (250-499); California, 52 (1,000-2,499).

S.I.C. 2329, Pt. B, Jobbers: New England—Massachusetts, 5 (20-99); Connecticut, 1 (1-19); Middle Atlantic—New Jersey, 1 (1-19); Pennsylvania, 13 (100-249); North Central—Ohio, 2 (100-249); Illinois, 1 (1-19); Missouri, 4 (100-249); South—Maryland, 2 (20-99); Virginia, 2 (1,000-2,499); South Carolina, 1 (1-19); Georgia, 2 (1-19); Tennessee, 2 (500-999); Alabama, 2 (250-499); Mississippi, 1 (250-499); Texas, 4 (100-249).

S.I.C. 2329, Pt. C, Contractors: New England—New Hampshire, 1 (20-99); Massachusetts, 17 (500-999); Connecticut, 1 (1-19); Middle Atlantic—New Jersey, 21 (1,000-2,499); Pennsylvania, 54 (2,500-4,999); North Central—Ohio, 4 (20-99); Indiana, 1 (20-99); Illinois, 14 (500-999); Minnesota, 2 (20-99); Iowa, 6 (1,078); Nebraska, 1 (1,078); Kansas, 1 (1-19); South—Maryland, 14 (500-999); Virginia, 9 (1,000-2,499); West Virginia, 1 (1-19); Georgia, 7 (1,000-2,499); Florida, 3 (20-99); Tennessee, 9 (1,000-2,499); Alabama, 5 (250-499); Mississippi, 4 (250-499); Arkansas, 5 (1,000-2,400); Louisiana, 1 (100-249); Oklahoma, 1 (20-99); Texas, 11 (2,140); Pacific—Washington, 1 (20-99); California, 23 (500-999).

## MEN'S AND BOYS' FURNISHINGS, WORK CLOTHING, AND ALLIED GARMENTS

23B-13

Table 3.—DETAILED STATISTICS FOR THE UNITED STATES: 1954

(For explanation of line captions see Introduction)

Item	Men's dress shirts and nightwear (S.I.C. 2321)			
	Total <sup>1</sup>	"Manufacturers" Part A	"Jobbers" Part B	"Contractors" Part C
Primary product specialization ratio <sup>2</sup> .....	90	(NA)	(NA)	(NA)
Coverage ratio <sup>3</sup> .....	85	(NA)	(NA)	(NA)
Number of establishments, total.....	971	389	193	389
With 1-19 employees.....	295	116	135	44
With 20-99 employees.....	335	134	46	155
With 100 employees and over.....	341	139	12	190
All employees:				
Number (average for year).....	108,304	50,752	6,434	49,287
Payroll.....\$1,000..	236,726	117,025	20,436	94,548
Production workers:				
Number (average for year).....	100,262	46,370	4,846	47,467
Man-hours.....1,000..	181,083	83,943	7,054	86,940
Wages.....\$1,000..	196,683	96,809	9,062	86,929
Value added by manufacture.....do....	372,941	196,318	52,969	111,279
Cost of materials, etc.....do....	521,036	233,754	235,555	15,444
Value of shipments.....do....	893,980	430,072	288,525	126,724
Value added by resales.....do....	6,568	3,408	3,110	50
Cost of products bought and resold.....do....	23,028	11,766	10,523	738
Sales of products bought and resold.....do....	29,597	15,174	13,633	788
Total inventories, beginning of year.....do....	134,146	60,085	57,920	3,956
Total inventories, end of year.....do....	123,102	53,803	53,294	3,726
Capital expenditures, new.....do....	6,370	3,368	( <sup>4</sup> )	2,350
Number of employees for selected months:				
March.....	107,491	51,042	6,493	48,105
May.....	105,674	49,502	6,350	47,983
August.....	108,922	51,099	6,427	49,585
November.....	111,129	51,365	6,466	51,474
Cost of materials, fuel, electricity and contract work, total.....\$1,000..	521,036	233,754	235,555	15,444
Materials, parts, containers, and supplies consumed.....do....	396,857	216,276	146,181	11,888
Fuels consumed, total.....do....	91	(NA)	(NA)	(NA)
Electric energy:				
Purchased:				
Quantity.....million kwh..	62	27	12	23
Cost.....\$1,000..	1,853	839	285	704
Cost of contract work.....do....	122,235	16,639	89,089	2,852
Manufacturers' inventories:				
Beginning of year, total.....do....	134,146	60,085	57,920	3,956
Finished products.....do....	66,234	27,372	31,215	900
Work-in-process.....do....	25,008	12,307	8,610	1,359
Materials, supplies, fuel, etc.....do....	42,904	20,405	18,095	1,696
End of year, total.....do....	123,102	53,803	53,294	3,726
Finished products.....do....	57,706	24,802	25,783	764
Work-in-process.....do....	24,156	10,790	8,949	1,324
Materials, supplies, fuel, etc.....do....	41,239	18,210	18,560	1,638
Expenditures for plant and equipment, total.....do....	6,788	3,541	( <sup>4</sup> )	2,580
Capital expenditures, new.....do....	6,370	3,368	( <sup>4</sup> )	2,350
New structures and additions to plant.....do....	1,478	1,030	( <sup>4</sup> )	( <sup>4</sup> )
New machinery and equipment.....do....	4,892	2,338	( <sup>4</sup> )	2,060
Expenditures for used plant and equipment.....do....	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )

See footnotes at end of table.



## MANUFACTURES--INDUSTRY STATISTICS

Table 3.—DETAILED STATISTICS FOR THE UNITED STATES: 1954—Continued

Item	Men's and boys' underwear (S.I.C. 2322)				
	Total	"Manufacturers" Part A		"Jobbers" Part B all estab- lishments	"Contractors" Part C all estab- lishments
		All estab- lishments	Establish- ments with 90% or more primary prod- uct special- ization		
Primary product specialization ratio <sup>2</sup> .....	88	(NA)	xxx	(NA)	(NA)
Coverage ratio <sup>3</sup> .....	28	(NA)	xxx	(NA)	(NA)
Number of establishments, total.....	82	49	30	7	26
With 1-19 employees.....	22	15	13	4	3
With 20-99 employees.....	29	15	4	1	13
With 100 employees and over.....	31	19	13	2	10
All employees:					
Number (average for year).....	9,385	6,457	4,417	415	2,513
Payroll.....\$1,000..	18,923	13,406	9,538	1,239	4,277
Production workers:					
Number (average for year).....	8,827	6,070	4,121	343	2,413
Man-hours.....1,000..	15,325	10,508	7,183	591	4,226
Wages.....\$1,000..	16,289	11,710	8,309	630	3,948
Value added by manufacture.....do...	29,952	23,329	17,361	1,814	4,808
Cost of materials, etc.....do...	44,371	36,090	25,066	7,087	1,193
Value of shipments.....do...	74,324	59,420	42,428	8,902	6,002
Value added by resales.....do...	1,172	1,122	1,051	50	...
Cost of products bought and resold.....do...	10,786	10,605	10,307	181	...
Sales of products bought and resold.....do...	11,958	11,727	11,358	231	...
Total inventories, beginning of year.....do...	11,618	10,150	8,204	1,125	( <sup>4</sup> )
Total inventories, end of year.....do...	11,701	10,241	8,088	1,108	( <sup>4</sup> )
Capital expenditures, new.....do...	1,168	982	920	( <sup>4</sup> )	( <sup>4</sup> )
Number of employees for selected months:					
March.....	9,192	6,313	4,308	368	2,511
May.....	9,185	6,383	4,523	399	2,403
August.....	9,522	6,550	4,455	433	2,539
November.....	9,641	6,581	4,381	461	2,599
Cost of materials, fuel, electricity and contract work, total.....\$1,000..	44,371	36,090	25,066	7,087	1,193
Materials, parts, containers, and supplies consumed.....do...	39,906	35,131	24,531	3,622	1,153
Fuels consumed, total.....do...	4	(NA)	(NA)	(NA)	(NA)
Electric energy:					
Purchased:					
Quantity.....million kwh..	4	3	2	( <sup>5</sup> )	1
Cost.....\$1,000..	149	101	74	11	37
Cost of contract work.....do...	4,312	858	461	3,454	...
Manufacturers' inventories:					
Beginning of year, total.....do...	11,618	10,150	8,204	1,125	( <sup>4</sup> )
Finished products.....do...	6,046	5,484	4,398	( <sup>4</sup> )	( <sup>4</sup> )
Work-in-process.....do...	2,099	1,734	1,346	( <sup>4</sup> )	( <sup>4</sup> )
Materials, supplies, fuel, etc.....do...	3,470	2,931	2,459	( <sup>4</sup> )	( <sup>4</sup> )
End of year, total.....do...	11,701	10,241	8,088	1,108	( <sup>4</sup> )
Finished products.....do...	6,230	5,664	4,526	( <sup>4</sup> )	( <sup>4</sup> )
Work-in-process.....do...	2,244	1,904	1,446	( <sup>4</sup> )	( <sup>4</sup> )
Materials, supplies, fuel, etc.....do...	3,223	2,671	2,115	( <sup>4</sup> )	( <sup>4</sup> )
Expenditures for plant and equipment, total.....do...	1,189	1,004	923	( <sup>4</sup> )	( <sup>4</sup> )
Capital expenditures, new.....do...	1,168	982	920	( <sup>4</sup> )	( <sup>4</sup> )
New structures and additions to plant.....do...	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
New machinery and equipment.....do...	1,038	928	870	( <sup>4</sup> )	( <sup>4</sup> )
Expenditures for used plant and equipment.....do...	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )

See footnotes at end of table.

## MEN'S AND BOYS' FURNISHINGS, WORK CLOTHING, AND ALLIED GARMENTS

23B-15

Table 3.—DETAILED STATISTICS FOR THE UNITED STATES: 1954—Continued

Item	Men's and boys' neckwear (S.I.C. 2323)				Men's and boys' cloth hats and caps (S.I.C. 2325)	Men's and boys' hat and cap materials (S.I.C. 2326)
	Total	"Manufacturers" Part A	"Jobbers" Part B	"Contractors" Part C		
Primary product specialization ratio <sup>2</sup> .....	98	(NA)	(NA)	(NA)	97	99
Coverage ratio <sup>3</sup> .....	92	(NA)	(NA)	(NA)	87	94
Number of establishments, total.....	403	301	27	75	415	63
With 1-19 employees.....	276	198	25	53	304	51
With 20-99 employees.....	112	90	2	20	101	12
With 100 employees and over.....	15	13	...	2	10	...
All employees:						
Number (average for year).....	9,483	7,913	197	1,372	8,079	936
Payroll.....\$1,000..	27,797	24,049	754	2,993	21,457	2,941
Production workers:						
Number (average for year).....	8,051	6,610	113	1,327	7,451	796
Man-hours.....1,000..	13,789	11,361	161	2,266	14,011	1,424
Wages.....\$1,000..	19,056	16,019	239	2,796	17,977	2,145
Value added by manufacture.....do....	48,237	42,051	1,995	4,190	33,030	4,579
Cost of materials, etc.....do....	51,798	46,012	4,928	857	25,257	5,090
Value of shipments.....do....	100,036	88,064	6,924	5,047	58,287	9,669
Value added by resales.....do....	1,990	1,929	52	9	720	117
Cost of products bought and resold.....do....	5,529	5,251	197	80	2,801	537
Sales of products bought and resold.....do....	7,520	7,180	249	89	3,521	654
Total inventories, beginning of year.....do....	12,455	11,230	998	( <sup>4</sup> )	8,755	1,089
Total inventories, end of year.....do....	11,722	10,626	892	( <sup>4</sup> )	7,844	1,102
Capital expenditures, new.....do....	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
Number of employees for selected months:						
March.....	9,745	8,113	197	1,435	8,166	951
May.....	8,581	7,232	188	1,161	8,087	896
August.....	9,236	7,755	201	1,280	8,037	938
November.....	10,370	8,556	201	1,613	8,024	957
Cost of materials, fuel, electricity and contract work, total..\$1,000..	51,798	46,012	4,928	857	25,257	5,090
Materials, parts, containers, and supplies consumed.....do....	47,063	43,133	3,146	789	23,849	4,894
Fuels consumed, total.....do....	6	(NA)	(NA)	(NA)	73	13
Electric energy:						
Purchased:						
Quantity.....million kwh..	4	3	( <sup>5</sup> )	( <sup>5</sup> )	5	( <sup>5</sup> )
Cost.....\$1,000..	163	135	15	13	118	18
Cost of contract work.....do....	4,566	2,744	1,767	55	1,217	165
Manufacturers' inventories:						
Beginning of year, total.....do....	12,455	11,230	998	( <sup>4</sup> )	8,755	1,089
Finished products.....do....	6,372	5,638	658	( <sup>4</sup> )	3,759	724
Work-in-process.....do....	1,496	1,403	( <sup>4</sup> )	( <sup>4</sup> )	1,121	( <sup>4</sup> )
Materials, supplies, fuel, etc.....do....	4,586	4,189	( <sup>4</sup> )	( <sup>4</sup> )	3,874	( <sup>4</sup> )
End of year, total.....do....	11,722	10,626	892	( <sup>4</sup> )	7,844	1,102
Finished products.....do....	5,564	4,938	565	( <sup>4</sup> )	3,337	731
Work-in-process.....do....	1,428	1,353	( <sup>4</sup> )	( <sup>4</sup> )	1,022	( <sup>4</sup> )
Materials, supplies, fuel, etc.....do....	4,729	4,335	( <sup>4</sup> )	( <sup>4</sup> )	3,484	( <sup>4</sup> )
Expenditures for plant and equipment, total.....do....	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
Capital expenditures, new.....do....	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
New structures and additions to plant.....do....	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
New machinery and equipment.....do....	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
Expenditures for used plant and equipment.....do....	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )

See footnotes at end of table.

Table 3.—DETAILED STATISTICS FOR THE UNITED STATES: 1954—Continued

Item	Separate trousers (S.I.C. 2327)					
	Total <sup>1</sup>	"Manufacturers" Part A		"Jobbers" Part B		"Contractors" Part C all estab- lishments
		All estab- lishments	Establish- ments with 90% or more primary prod- uct special- ization	All estab- lishments	Establish- ments with 90% or more primary prod- uct special- ization	
Primary product specialization ratio <sup>2</sup> .....	89	(NA)	xxx	(NA)	xxx	(NA)
Coverage ratio <sup>3</sup> .....	74	(NA)	xxx	(NA)	xxx	(NA)
Number of establishments, total.....	798	212	155	169	136	417
With 1-19 employees.....	388	73	60	146	119	169
With 20-99 employees.....	255	74	49	18	14	163
With 100 employees and over.....	155	65	46	5	3	85
All employees:						
Number (average for year).....	51,652	21,938	14,852	2,826	1,705	26,050
Payroll.....\$1,000..	118,688	51,749	34,810	8,983	6,238	56,220
Production workers:						
Number (average for year).....	48,315	20,197	13,838	2,086	1,098	25,265
Man-hours.....1,000..	86,421	36,826	25,200	3,453	1,756	44,728
Wages.....\$1,000..	99,562	41,333	28,266	4,501	2,466	52,258
Value added by manufacture.....do....	181,309	81,435	57,418	22,978	16,271	72,327
Cost of materials, etc.....do....	216,376	103,513	73,531	85,290	64,225	13,723
Value of shipments.....do....	397,685	184,948	130,950	108,269	80,497	86,051
Value added by resales.....do....	899	475	89	383	322	40
Cost of products bought and resold.....do....	3,470	1,700	902	1,675	1,429	94
Sales of products bought and resold.....do....	4,370	2,175	991	2,059	1,752	135
Total inventories, beginning of year.....do....	71,965	36,936	25,712	25,818	16,626	4,278
Total inventories, end of year.....do....	68,940	36,310	24,933	24,023	16,263	4,263
Capital expenditures, new.....do....	2,776	1,240	941	( <sup>4</sup> )	( <sup>4</sup> )	1,199
Number of employees for selected months:						
March.....	53,293	22,358	(NA)	2,831	(NA)	26,919
May.....	51,039	21,491	(NA)	2,934	(NA)	25,825
August.....	50,852	21,873	(NA)	2,833	(NA)	25,450
November.....	51,422	22,028	(NA)	2,706	(NA)	26,004
Cost of materials, fuel, electricity and contract work, total...\$1,000..	216,376	103,513	73,531	85,290	64,225	13,723
Materials, parts, containers, and supplies consumed.....do....	176,575	100,164	71,320	52,515	38,024	11,958
Fuels consumed, total.....do....	80	(NA)	(NA)	(NA)	(NA)	(NA)
Electric energy:						
Purchased:						
Quantity.....million kwh..	27	11	7	5	4	11
Cost.....\$1,000..	894	314	216	107	87	366
Cost of contract work.....do....	38,827	3,035	1,995	32,668	26,114	1,399
Manufacturers' inventories:						
Beginning of year, total.....do....	71,965	36,936	25,712	25,818	16,626	4,278
Finished products.....do....	36,105	16,548	11,945	15,613	8,860	1,752
Work-in-process.....do....	8,889	4,346	3,058	3,193	2,511	679
Materials, supplies, fuel, etc.....do....	26,968	16,042	10,708	7,012	5,254	1,846
End of year, total.....do....	68,940	36,310	24,933	24,023	16,263	4,263
Finished products.....do....	34,891	16,140	11,334	15,162	9,215	1,619
Work-in-process.....do....	8,279	4,402	3,076	2,550	2,146	724
Materials, supplies, fuel, etc.....do....	25,766	15,768	10,523	6,309	4,900	1,919
Expenditures for plant and equipment, total.....do....	3,067	1,252	949	( <sup>4</sup> )	( <sup>4</sup> )	1,480
Capital expenditures, new.....do....	2,776	1,240	941	( <sup>4</sup> )	( <sup>4</sup> )	1,199
New structures and additions to plant.....do....	666	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
New machinery and equipment.....do....	2,110	954	762	( <sup>4</sup> )	( <sup>4</sup> )	906
Expenditures for used plant and equipment.....do....	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )

See footnotes at end of table.



Table 3.—DETAILED STATISTICS FOR THE UNITED STATES: 1954—Continued

Item	Work shirts (S.I.C. 2328)		
	Total <sup>1</sup>	"Manufacturers" <sup>6</sup> Part A	"Contractors" Part C
Primary product specialization ratio <sup>2</sup> .....	97	(NA)	(NA)
Coverage ratio <sup>3</sup> .....	35	(NA)	(NA)
Number of establishments, total.....	52	30	22
With 1-19 employees.....	8	5	3
With 20-99 employees.....	21	10	11
With 100 employees and over.....	23	15	8
All employees:			
Number (average for year).....	6,992	4,095	2,440
Payroll.....\$1,000..	11,468	6,612	4,136
Production workers:			
Number (average for year).....	6,789	3,967	2,375
Man-hours.....1,000..	11,425	6,636	4,122
Wages.....\$1,000..	10,632	6,117	3,870
Value added by manufacture.....do...	16,652	10,696	4,931
Cost of materials, etc.....do...	21,648	19,947	510
Value of shipments.....do...	38,300	30,644	5,441
Value added by resales.....do...	1	1	...
Cost of products bought and resold.....do...	30	9	20
Sales of products bought and resold.....do...	31	10	20
Total inventories, beginning of year.....do...	6,090	5,494	( <sup>4</sup> )
Total inventories, end of year...do...	6,106	5,516	( <sup>4</sup> )
Capital expenditures, new.....do...	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
Number of employees for selected months:			
March.....	6,908	4,062	2,398
May.....	6,795	4,124	2,235
August.....	7,169	4,184	2,511
November.....	7,095	4,008	2,615
Cost of materials, fuel, electricity and contract work, total.....\$1,000..	21,648	19,947	510
Materials, parts, containers, and supplies consumed.....do...	20,736	19,087	480
Fuels consumed, total.....do...	3	(NA)	(NA)
Electric energy:			
Purchased:			
Quantity.....million kwh..	5	3	2
Cost.....\$1,000..	99	60	30
Cost of contract work.....do...	810	800	...
Manufacturers' inventories:			
Beginning of year, total.....do...	6,090	5,494	( <sup>4</sup> )
Finished products.....do...	3,328	3,028	( <sup>4</sup> )
Work-in-process.....do...	726	629	( <sup>4</sup> )
Materials, supplies, fuel, etc.....do...	2,033	1,837	( <sup>4</sup> )
End of year, total.....do...	6,106	5,516	( <sup>4</sup> )
Finished products.....do...	3,467	3,164	( <sup>4</sup> )
Work-in-process.....do...	532	( <sup>4</sup> )	( <sup>4</sup> )
Materials, supplies, fuel, etc.....do...	2,102	1,909	( <sup>4</sup> )
Expenditures for plant and equipment, total.....do...	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
Capital expenditures, new.....do...	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
New structures and additions to plant.....do...	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
New machinery and equipment.....do...	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
Expenditures for used plant and equipment.....do...	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )

See footnotes at end of table.

## MANUFACTURES--INDUSTRY STATISTICS

Table 3.--DETAILED STATISTICS FOR THE UNITED STATES: 1954--Continued

Item	Men's and boys' clothing, n.e.c. (S.I.C. 2329)					
	Total <sup>1</sup>	"Manufacturers" Part A		"Jobbers" Part B		"Contractors" Part C all estab- lishments
		All estab- lishments	Establish- ments with 90% or more primary prod- uct special- ization	All estab- lishments	Establish- ments with 90% or more primary prod- uct special- ization	
Primary product specialization ratio <sup>2</sup> .....	79	(NA)	xxx	(NA)	xxx	(NA)
Coverage ratio <sup>3</sup> .....	78	(NA)	xxx	(NA)	xxx	(NA)
Number of establishments, total.....	1,117	694	421	96	49	327
With 1-19 employees.....	396	235	184	66	39	95
With 20-99 employees.....	441	263	153	20	10	158
With 100 employees and over.....	280	196	84	10	...	74
All employees:						
Number (average for year).....	90,759	61,999	27,047	4,532	675	24,112
Payroll.....\$1,000..	200,730	140,340	61,095	12,357	2,687	47,657
Production workers:						
Number (average for year).....	82,510	55,821	24,659	3,515	457	23,085
Man-hours.....1,000..	146,446	99,586	43,610	6,121	812	40,588
Wages.....\$1,000..	160,573	110,137	49,476	6,965	1,211	43,284
Value added by manufacture.....do...	321,655	217,421	99,508	43,676	5,407	60,021
Cost of materials, etc.....do...	471,231	329,281	143,752	130,496	23,242	10,964
Value of shipments.....do...	792,886	546,702	243,261	174,172	28,650	10,966
Value added by resales.....do...	7,850	7,011	2,872	693	71	145
Cost of products bought and resold.....do...	33,647	27,190	9,136	6,005	261	452
Sales of products bought and resold.....do...	41,498	34,202	12,009	6,698	333	597
Total inventories, beginning of year.....do...	147,745	119,710	47,810	23,734	5,406	4,109
Total inventories, end of year.....do...	136,450	110,658	45,097	22,727	4,359	2,978
Capital expenditures, new.....do...	5,473	3,893	1,493	( <sup>4</sup> )	( <sup>4</sup> )	1,267
Number of employees for selected months:						
March.....	91,267	61,844	(NA)	4,470	(NA)	24,848
May.....	88,644	60,319	(NA)	4,381	(NA)	23,824
August.....	90,677	62,318	(NA)	4,554	(NA)	23,687
November.....	92,446	63,514	(NA)	4,721	(NA)	24,087
Cost of materials, fuel, electricity and contract work, total..\$1,000..	471,231	329,281	143,752	130,496	23,242	10,964
Materials, parts, containers, and supplies consumed.....do...	418,870	315,967	138,946	92,940	14,386	9,636
Fuels consumed, total.....do...	162	(NA)	(NA)	(NA)	(NA)	(NA)
Electric energy:						
Purchased:						
Quantity.....million kwh..	50	33	15	5	( <sup>5</sup> )	12
Cost.....\$1,000..	1,557	1,067	453	137	28	352
Cost of contract work.....do...	50,642	12,247	4,353	37,419	8,828	976
Manufacturers' inventories:						
Beginning of year, total.....do...	147,745	119,710	47,810	23,734	5,406	4,109
Finished products.....do...	82,717	68,378	25,310	12,556	2,941	1,671
Work-in-process.....do...	16,257	11,396	5,384	3,859	520	1,002
Materials, supplies, fuel, etc.....do...	48,767	39,935	17,116	7,318	1,944	1,435
End of year, total.....do...	136,450	110,658	45,097	22,727	4,359	2,978
Finished products.....do...	75,007	61,429	23,621	12,391	2,333	1,150
Work-in-process.....do...	14,986	10,904	5,085	3,345	( <sup>4</sup> )	737
Materials, supplies, fuel, etc.....do...	46,452	38,324	16,390	6,989	1,584	1,090
Expenditures for plant and equipment, total.....do...	5,722	4,040	1,564	( <sup>4</sup> )	( <sup>4</sup> )	1,364
Capital expenditures, new.....do...	5,473	3,893	1,493	( <sup>4</sup> )	( <sup>4</sup> )	1,267
New structures and additions to plant.....do...	1,804	1,381	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
New machinery and equipment.....do...	3,669	2,512	1,123	( <sup>4</sup> )	( <sup>4</sup> )	962
Expenditures for used plant and equipment.....do...	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )

Note: Detailed figures may not add to the totals because of independent rounding.

xxx Not applicable.

NA Not available.

<sup>1</sup>Industries 2321, 2327, 2328 and 2329 include a total of 24 establishments with 3,242 employees, \$70,317 thousand value of shipments and \$18,506 thousand value added by manufacture which are not included in the separate totals for "manufacturers", "jobbers" or "contractors".<sup>2</sup>The specialization ratio compares the given industry's shipments of its primary products to its total shipments of all products. (The primary products are listed in Tables 5B and 6A.) Columns containing totals for establishments with 90% or more primary product specialization are shown only for those industries having a primary product specialization of less than 90% such as Industries 2322, 2327 and 2329. In these cases, however, the columns are shown for manufacturers and jobbers only, since specialization ratios for contractors were not computed. Such ratios would not be meaningful since they could relate to only a minor portion of the contractors' total activity, that is, production on own account from materials owned by them, and would not be representative of the activity of these establishments as a whole.<sup>3</sup>The coverage ratio measures the extent to which the total shipments of products primary to the given industry are shipped by establishments classified in that industry.<sup>4</sup>Less than \$500 thousand.<sup>5</sup>Less than 500 thousand kwh.<sup>6</sup>Includes one jobber to avoid disclosure of individual company figures.

Table 4.—SELECTED STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR THE UNITED STATES: 1954

(Value figures in thousands of dollars. For explanation of line captions see Introduction. Data which cannot be shown without disclosing information for individual companies have been combined with figures for other size classes. A (D) appears in the column where the figure has been omitted and the combined figure is underlined and shown in the size-class to the left)

Ind. code	Industry and item	Total, all establishments	Establishments with an average of—									
			1-4 employees	5-9 employees	10-19 employees	20-49 employees	50-99 employees	100-249 employees	250-499 employees	500-999 employees	1,000-2,499 employees	2,500 employees and over
2321	Men's dress shirts & nightwear: <sup>1</sup>											
	Number of establishments...	971	143	70	82	160	175	227	81	27	6	...
	Number of employees.....	108,304	384	488	1,222	5,473	12,753	35,454	26,991	17,567	7,968	...
	Value added by manufacture.	372,941	4,125	3,770	6,002	24,046	42,433	104,936	88,471	69,777	29,377	...
2321	"Manufacturers:"											
Pt.A	Number of establishments...	389	50	31	35	72	62	74	42	18	5	...
	Number of employees.....	50,752	114	213	498	2,264	4,440	11,186	13,154	<u>18,880</u>	(D)	...
	Value added by manufacture.	196,318	414	747	1,878	7,577	16,331	41,925	50,429	<u>77,014</u>	(D)	...
2321	"Jobbers:"											
Pt.B	Number of establishments...	193	80	33	22	28	18	8	2	2	...	...
	Number of employees.....	6,434	236	228	333	913	1,314	1,279	<u>2,129</u>	(D)	...	...
	Value added by manufacture.	52,969	3,535	2,872	3,239	9,946	8,360	10,111	<u>14,903</u>	(D)	...	...
2321	"Contractors:"											
Pt.C	Number of establishments...	389	13	6	25	60	95	145	37	7	1	...
	Number of employees.....	49,287	34	46	390	2,166	6,847	22,490	<u>17,310</u>	(D)	(D)	...
	Value added by manufacture.	111,279	176	151	884	5,025	16,678	51,469	<u>36,894</u>	(D)	(D)	...
2322	Men's and boys' underwear:											
	Number of establishments...	82	10	4	8	14	15	24	5	1	1	...
	Number of employees.....	9,385	19	32	127	474	1,077	4,361	<u>3,293</u>	(D)	(D)	...
	Value added by manufacture.	29,952	98	158	750	1,330	2,585	11,839	<u>13,190</u>	(D)	(D)	...
2322	"Manufacturers:"											
Pt.A	Number of establishments...	49	7	3	5	10	5	12	5	1	1	...
	Number of employees.....	6,456	<u>114</u>	(D)	(D)	332	389	<u>5,318</u>	(D)	(D)	(D)	...
	Value added by manufacture.	23,329	<u>343</u>	(D)	(D)	964	1,227	<u>20,792</u>	(D)	(D)	(D)	...
2322	"Jobbers:"											
Pt.B	Number of establishments...	7	2	1	1	1	...	2	...	...	...	...
	Number of employees.....	415	<u>27</u>	(D)	(D)	387	...	(D)	...	...	...	...
	Value added by manufacture.	1,814	<u>589</u>	(D)	(D)	<u>1,224</u>	...	(D)	...	...	...	...
2322	"Contractors:"											
Pt.C	Number of establishments...	26	1	...	2	3	10	10	...	...	...	...
	Number of employees.....	2,513	<u>140</u>	...	(D)	(D)	688	1,684	...	...	...	...
	Value added by manufacture.	4,808	<u>293</u>	...	(D)	(D)	1,358	3,157	...	...	...	...
2323	Men's and boys' neckwear:											
	Number of establishments...	403	142	67	67	77	35	13	1	1	...	...
	Number of employees.....	9,483	365	483	977	2,347	2,398	<u>2,910</u>	(D)	(D)	...	...
	Value added by manufacture.	48,237	1,856	2,083	4,730	11,358	12,860	<u>15,346</u>	(D)	(D)	...	...
2323	"Manufacturers:"											
Pt.A	Number of establishments...	301	101	49	48	58	32	11	1	1	...	...
	Number of employees.....	7,913	258	357	707	1,754	<u>4,834</u>	(D)	(D)	(D)	...	...
	Value added by manufacture.	42,051	1,254	1,527	3,165	9,137	<u>26,964</u>	(D)	(D)	(D)	...	...
2323	"Jobbers:"											
Pt.B	Number of establishments...	27	17	4	4	2	...	...	...	...	...	...
	Number of employees.....	197	43	25	129	(D)	...	...	...	...	...	...
	Value added by manufacture.	1,995	391	231	<u>1,372</u>	(D)	...	...	...	...	...	...
2323	"Contractors:"											
Pt.C	Number of establishments...	75	24	14	15	17	3	2	...	...	...	...
	Number of employees.....	1,372	63	101	<u>733</u>	(D)	<u>474</u>	(D)	...	...	...	...
	Value added by manufacture.	4,190	210	324	<u>2,413</u>	(D)	<u>1,241</u>	(D)	...	...	...	...
2325	Men's and boys' cloth hats:											
	Number of establishments...	415	128	79	97	73	28	9	1	...	...	...
	Number of employees.....	8,079	326	547	1,361	2,407	1,938	<u>1,498</u>	(D)	...	...	...
	Value added by manufacture.	33,030	1,499	2,479	5,381	9,458	8,401	<u>5,810</u>	(D)	...	...	...
2326	Hat and cap materials:											
	Number of establishments...	63	23	16	12	5	7	...	...	...	...	...
	Number of employees.....	936	63	117	161	148	445	...	...	...	...	...
	Value added by manufacture.	4,579	444	675	761	739	1,959	...	...	...	...	...
2327	Separate trousers: <sup>1</sup>											
	Number of establishments...	798	204	100	84	126	129	101	46	8	...	...
	Number of employees.....	51,652	533	730	1,248	4,172	9,252	15,647	15,105	<u>4,963</u>	...	...
	Value added by manufacture.	181,309	4,406	4,881	7,297	15,450	31,702	49,987	49,684	17,898	...	...
2327	"Manufacturers:"											
Pt.A	Number of establishments...	212	38	17	18	39	35	36	22	7	...	...
	Number of employees.....	21,938	91	125	268	1,260	2,556	5,730	<u>11,906</u>	(D)	...	...
	Value added by manufacture.	81,435	512	677	1,242	4,464	9,891	21,183	<u>43,463</u>	(D)	...	...

See footnotes at end of table.



Table 4.—SELECTED STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR THE UNITED STATES: 1954—Continued

Ind. code	Industry and item	Total, all establishments	Establishments with an average of—									
			1-4 em- ployees	5-9 em- ployees	10-19 em- ployees	20-49 em- ployees	50-99 em- ployees	100-249 employees	250-499 employees	500-999 employees	1,000-2,499 employees	2,500 employees and over
2327	Separate Trousers, <sup>1</sup> "Jobbers:"											
Pt.B	Number of establishments...	169	96	40	10	12	6	2	3	...	...	...
	Number of employees.....	2,826	251	288	152	418	354	<u>1,362</u>	(D)	...	...	...
	Value added by manufacture.	22,978	3,274	2,767	1,666	3,485	3,793	<u>7,990</u>	(D)	...	...	...
2327	"Contractors:"											
Pt.C	Number of establishments...	417	70	43	56	75	88	63	21	1	...	...
	Number of employees.....	26,050	191	311	816	2,493	6,099	<u>16,137</u>	(D)	(D)	...	...
	Value added by manufacture.	72,327	619	1,151	2,240	7,501	17,523	<u>43,292</u>	(D)	(D)	...	...
2328	Work shirts: <sup>1</sup>											
	Number of establishments...	52	3	...	5	4	17	15	7	1	...	...
	Number of employees.....	6,992	87	...	(D)	130	1,165	2,676	<u>2,931</u>	(D)	...	...
	Value added by manufacture.	16,652	<u>681</u>	...	(D)	309	2,516	5,758	<u>7,386</u>	(D)	...	...
2329	Men's & boys' clothing, nec: <sup>1</sup>											
	Number of establishments...	1,117	172	101	123	249	192	193	65	22	...	...
	Number of employees.....	90,759	438	727	1,870	8,159	13,806	30,332	21,413	14,011	...	...
	Value added by manufacture.	321,655	3,394	4,525	20,602	29,242	49,852	98,775	66,485	48,777	...	...
2329	"Manufacturers:"											
Pt.A	Number of establishments...	694	101	56	78	151	112	129	51	16	...	...
	Number of employees.....	61,999	246	419	1,172	4,903	8,160	20,272	16,894	9,931	...	...
	Value added by manufacture.	217,421	977	1,547	4,660	18,737	30,879	70,283	55,874	34,461	...	...
2329	"Jobbers:"											
Pt.B	Number of establishments...	96	37	18	11	10	10	6	2	2	...	...
	Number of employees.....	4,532	104	120	171	308	718	943	<u>2,167</u>	(D)	...	...
	Value added by manufacture.	43,676	2,124	2,424	14,536	2,675	6,461	6,000	<u>9,453</u>	(D)	...	...
2329	"Contractors:"											
Pt.C	Number of establishments...	327	34	27	34	88	70	58	12	4	...	...
	Number of employees.....	24,112	87	188	527	2,948	4,927	9,003	<u>6,432</u>	(D)	...	...
	Value added by manufacture.	60,021	292	554	1,405	7,829	12,511	21,955	<u>15,473</u>	(D)	...	...

Note: Detailed figures may not add to the totals because of independent rounding.

<sup>1</sup>Data for these industries include a total of 24 establishments with 4,583 employees, \$82,427 thousand value of shipments and \$21,741 thousand value added by manufacture which are not included in the separate totals for "manufacturers", "jobbers", or "contractors."

## MEN'S AND BOYS' FURNISHINGS, WORK CLOTHING, AND ALLIED GARMENTS

23B-21

Table 5A.—INDUSTRY-PRODUCT ANALYSIS—SUMMARY OF INDUSTRY AND PRIMARY PRODUCT SHIPMENTS, SPECIALIZATION RATIOS AND COVERAGE RATIOS FOR THE UNITED STATES: 1954 AND 1947

Industry code	Industry and census year	Value of shipments					Value of primary products shipped			
		Total	Primary products	Secondary products	Miscellaneous receipts	Primary product specialization ratio <sup>1</sup>	Total (made in all industries)	Made in this industry	Made in other industries	Coverage ratio <sup>2</sup>
		(\$1,000) (A)	(\$1,000) (B)	(\$1,000) (C)	(\$1,000) (D)	Col. B Col. B+C (Percent) (E)	(\$1,000) (F)	(\$1,000) (G)	(\$1,000) (H)	Col. G Col. F (Percent) (I)
2321	Men's dress shirts and nightwear.....1954..	893,980	699,850	72,636	121,494	90	827,416	699,850	127,566	85
	1947..	731,277	594,213	40,970	96,094	94	680,548	594,213	86,335	87
2322	Men's and boys' underwear...1954..	74,324	60,011	7,837	6,476	83	214,315	60,011	154,304	28
	1947..	49,753	40,632	2,281	6,840	95	193,711	40,632	153,079	21
2323	Men's and boys' neckwear...1954..	100,036	92,959	2,024	5,053	98	101,280	92,959	8,321	92
	1947..	113,688	105,595	2,787	5,306	97	116,670	105,595	11,075	91
2325	Men's and boys' cloth hats..1954..	58,287	54,623	1,550	2,114	97	62,877	54,623	8,254	87
	1947..	37,535	33,626	1,522	2,387	96	41,087	33,626	7,461	82
2326	Hat and cap materials.....1954..	9,669	9,029	112	528	99	9,610	9,029	581	94
	1947..	12,329	11,528	321	480	97	11,679	11,528	151	99
2327	Separate trousers.....1954..	397,685	275,049	32,341	90,295	89	369,082	275,049	94,033	74
	1947..	334,039	227,486	37,636	68,917	86	326,254	227,486	98,768	70
2328	Work shirts.....1954..	38,300	31,585	822	5,893	97	90,450	31,585	58,865	35
	1947..	95,378	65,933	19,160	10,285	77	98,483	65,933	32,550	67
2329	Men's and boys' clothing, n.e.c.....1954..	792,886	563,946	152,990	75,950	79	720,623	563,946	156,677	78
	1947..	557,475	419,973	94,697	42,805	82	551,915	419,973	131,942	76

<sup>1</sup>The specialization ratio compares the given industry's shipments of its primary products to its total shipments of all products. (The primary products are listed in Tables 5B and 6A.)

<sup>2</sup>The coverage ratio measures the extent to which the total shipments of products primary to the given industry are shipped by establishments classified in that industry.

## MANUFACTURES--INDUSTRY STATISTICS

Table 5B.—INDUSTRY-PRODUCT ANALYSIS--SHIPMENTS BY PRODUCT CLASS AND INDUSTRY, FOR THE UNITED STATES: 1954

(In thousands of dollars. The first column shows the total value of shipments of the specified industry divided among: (a) products classified in the industry (primary products), (b) products classified in other industries (secondary products) and (c) miscellaneous receipts. The value of shipments of the primary products of the specified industry reported by establishments not classified in that industry is shown under the caption "Other Industries." Industries accounting for significant amounts of the primary products listed are shown in separate columns provided that the figures for individual companies are not thereby disclosed. The last column shows the total value of shipments of the primary products of the industry by all manufacturing industries)

Prod. class code	Men's dress shirts and nightwear industry	Men's dress shirts and nightwear (S.I.C. 2321)	Other industries	All industries	Prod. class code	Men's and boys' cloth hats industry	Men's and boys' cloth hats (S.I.C. 2325)	Other industries	All industries
	Total industry shipments.....	893,980	xxx	xxx		Total industry shipments.....	58,287	xxx	xxx
	Primary products.....	699,850	127,566	827,416	23250	Cloth hats and caps.....	54,623	78,254	62,877
23211	Men's and boys' woven dress and sport shirts.....	596,654	37,347	1634,001		Secondary products.....	1,550	xxx	xxx
23212	Men's and boys' nightwear.....	67,487	8,516	76,003		Miscellaneous receipts.....	2,114	xxx	xxx
23232 pt.	Knit outerwear sport shirts.....	229,117	380,721	109,838		Contract and commission work.....	2,090	xxx	xxx
23210	Men's dress shirts and nightwear, not specified by kind.....	6,592	982	7,574		Other.....	(6)	xxx	xxx
	Secondary products.....	72,636	xxx	xxx					
23113	Men's and boys' separate tailored jackets.....	3,636	xxx	xxx	Prod. class code	Hat and cap materials industry	Hat and cap materials (S.I.C. 2326)	Other industries	All industries
23220	Men's and boys' underwear.....	6,467	xxx	xxx		Total industry shipments.....	9,669	xxx	xxx
23230	Men's and boys' neckwear.....	2,822	xxx	xxx	23260	Hat and cap materials.....	9,029	581	9,610
23270	Men's and boys' separate trousers, except work.....	9,248	xxx	xxx		Secondary products.....	112	xxx	xxx
23280	Men's and boys' work shirts.....	8,779	xxx	xxx		Miscellaneous receipts.....	528	xxx	xxx
23291	Men's and boys' work clothing, except work shirts.....	2,054	xxx	xxx	Prod. class code	Separate trousers industry	Separate trousers (S.I.C. 2327)	Other industries	All industries
23292	Men's and boys' heavy outerwear coats and jackets.....	15,249	xxx	xxx		Total industry shipments.....	397,685	xxx	xxx
23310	Women's, misses', and juniors' blouses.....	4,250	xxx	xxx	23270	Men's and boys' separate trousers, except work.....	275,049	894,033	369,082
23411	Women's and children's underwear..	2,186	xxx	xxx		Secondary products.....	32,341	xxx	xxx
23412	Women's and children's nightwear..	3,312	xxx	xxx	23111	Men's and boys' tailored suits....	6,377	xxx	xxx
	Other secondary products.....	414,633	xxx	xxx	23113	Men's and boys' separate tailored jackets.....	5,145	xxx	xxx
	Miscellaneous receipts.....	121,494	xxx	xxx	23211	Men's and boys' woven dress and sport shirts.....	2,648	xxx	xxx
	Contract and commission work.....	120,518	xxx	xxx	23291	Men's and boys' work clothing, except work shirts.....	9,489	xxx	xxx
	Other.....	976	xxx	xxx	23292	Men's and boys' heavy outerwear coats and jackets.....	2,685	xxx	xxx
						Other secondary products.....	5,997	xxx	xxx
						Miscellaneous receipts.....	90,295	xxx	xxx
						Contract and commission work.....	89,940	xxx	xxx
						Other.....	355	xxx	xxx
Prod. class code	Men's and boys' underwear industry	Men's and boys' underwear (S.I.C. 2322)	Other industries	All industries	Prod. class code	Work shirts industry	Work shirts (S.I.C. 2328)	Other industries	All industries
	Total industry shipments.....	74,324	xxx	xxx		Total industry shipments.....	38,300	xxx	xxx
23220	Men's and boys' underwear.....	60,011	5156,304	214,315	23280	Men's and boys' work shirts.....	31,585	958,865	90,450
	Secondary products.....	7,837	xxx	xxx		Secondary products.....	22	xxx	xxx
22532	Knit outerwear sport shirts.....	2,022	xxx	xxx		Miscellaneous receipts.....	5,293	xxx	xxx
2321-	Men's dress shirts and nightwear..	2,910	xxx	xxx		Contract and commission work.....	5,501	xxx	xxx
	Other secondary products.....	2,905	xxx	xxx		Other.....	392	xxx	xxx
	Miscellaneous receipts.....	6,476	xxx	xxx					
	Contract and commission work.....	6,343	xxx	xxx					
	Scrap and salable refuse.....	133	xxx	xxx					
Prod. class code	Men's and boys' neckwear industry	Men's and boys' neckwear (S.I.C. 2323)	Other industries	All industries					
	Total industry shipments.....	100,036	xxx	xxx					
23230	Men's and boys' neckwear.....	92,959	8,321	101,280					
	Secondary products.....	2,024	xxx	xxx					
	Miscellaneous receipts.....	5,053	xxx	xxx					
	Contract and commission work.....	4,969	xxx	xxx					
	Other.....	(6)	xxx	xxx					

See footnotes at end of table.



## MEN'S AND BOYS' FURNISHINGS, WORK CLOTHING, AND ALLIED GARMENTS

23B-23

Table 5B.--INDUSTRY-PRODUCT ANALYSIS--SHIPMENTS BY PRODUCT CLASS AND INDUSTRY, FOR THE UNITED STATES: 1954--Continued

Prod. class code	Class of products and miscellaneous receipts	Men's and boys' clothing, n.e.c. (S.I.C. 2329)	Men's and boys' suits, and coats (S.I.C. 2311)	Men's dress shirts and nightwear (S.I.C. 2321)	Separate trousers (S.I.C. 2327)	Leather and sheep-lined clothing (S.I.C. 2386)	Other industries	All industries
	Total shipments of the industry.....	792,886	xxx	xxx	xxx	xxx	xxx	xxx
	Primary products.....	563,946	12,120	24,983	14,177	5,028	100,369	720,623
23291	Men's and boys' work clothing, except work shirts....	377,478	704	2,054	9,489	...	14,924	404,649
23292	Men's and boys' heavy outerwear coats and jackets....	130,499	7,534	15,249	2,685	5,028	6,773	167,768
23293	Men's and boys' outerwear, n.e.c.....	22,723	3,824	392	616	...	8,976	36,531
22531 pt.	Knit sweaters, jackets, jerseys, and pullovers.....	131,712	...	4,720	...	...	1157,288	63,720
22533 pt.	Swimwear and athletic shorts.....	1013,137	...	1,745	1,375	...	112,018	28,275
23290	Men's and boys' clothing, n.e.c., not specified by kind.....	18,397	( <sup>6</sup> )	823	( <sup>6</sup> )	...	390	19,680
	Secondary products.....	152,990	xxx	xxx	xxx	xxx	xxx	xxx
23113	Men's and boys' separate tailored jackets.....	6,702	xxx	xxx	xxx	xxx	xxx	xxx
23211	Men's and boys' woven dress and sport shirts.....	18,576	xxx	xxx	xxx	xxx	xxx	xxx
23270	Men's and boys' separate trousers, except work.....	16,159	xxx	xxx	xxx	xxx	xxx	xxx
23280	Men's and boys' work shirts.....	47,217	xxx	xxx	xxx	xxx	xxx	xxx
23242	Women's and misses' washable service apparel.....	4,694	xxx	xxx	xxx	xxx	xxx	xxx
23373	Women's, misses', and juniors' jackets.....	2,252	xxx	xxx	xxx	xxx	xxx	xxx
23390	Women's, misses', and juniors' outerwear, n.e.c.....	16,108	xxx	xxx	xxx	xxx	xxx	xxx
23630	Girls', children's, and infants' coats.....	3,181	xxx	xxx	xxx	xxx	xxx	xxx
23690	Children's outerwear, n.e.c.....	17,297	xxx	xxx	xxx	xxx	xxx	xxx
23860	Leather and sheep-lined clothing.....	7,976	xxx	xxx	xxx	xxx	xxx	xxx
2392-	Housefurnishings, n.e.c.....	2,452	xxx	xxx	xxx	xxx	xxx	xxx
	Other secondary products.....	10,376	xxx	xxx	xxx	xxx	xxx	xxx
	Miscellaneous receipts.....	75,950	xxx	xxx	xxx	xxx	xxx	xxx
	Contract and commission work.....	74,622	xxx	xxx	xxx	xxx	xxx	xxx
	Scrap and salable refuse.....	1,175	xxx	xxx	xxx	xxx	xxx	xxx
	Other.....	153	xxx	xxx	xxx	xxx	xxx	xxx

xxx Not applicable.

<sup>1</sup>Includes \$18,576 thousand shipped by Industry 2329, Men's and Boys' Clothing, N.E.C.<sup>2</sup>Includes a negligible amount of women's, misses', and juniors' knit outerwear sport shirts.<sup>3</sup>Excludes a negligible amount of men's and boys' knit outerwear sports shirts.<sup>4</sup>Of this figure, 43 percent consists of the following product classes: 22531, Knit sweaters and jackets; 23860, Leather and sheep-lined clothing.<sup>5</sup>Includes specified amounts (in thousands) shipped by the following industries: \$6,578 by Industry 2253, Knit Outerwear Mills; \$132,986 by Industry 2254, Knit Underwear Mills; \$6,467 by Industry 2321, Men's Dress Shirts and Nightwear; and \$4,240 by Industry 2341, Women's and Children's Underwear.<sup>6</sup>Less than \$100 thousand.<sup>7</sup>Includes \$5,333 thousand shipped by Industry 2253, Knit Outerwear Mills.<sup>8</sup>Includes specified amounts (in thousands) shipped by the following industries: \$59,411 by Industry 2311, Men's and Boys' Suits and Coats; \$9,248 by Industry 2321, Men's Dress Shirts and Nightwear; and \$16,159 by Industry 2329, Men's and Boys' Clothing, N.E.C.<sup>9</sup>Includes specified amounts (in thousands) shipped by the following industries: \$8,779 by Industry 2321, Men's Dress Shirts and Nightwear; and \$47,217 by Industry 2329, Men's and Boys' Clothing, N.E.C.<sup>10</sup>Includes a negligible amount of women's, misses', juniors', and children's products.<sup>11</sup>Excludes a negligible amount of men's and boys' products.

## MANUFACTURES—INDUSTRY STATISTICS

Table 6A.—QUANTITY AND VALUE OF PRODUCTS SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, FOR THE UNITED STATES: 1954 AND 1947

Product code	Product	Garments cut							
		1954						1947	
		Total		From materials owned by establishments classified as—			Cuttings of garments on contract	Quantity	Sales value
		Quantity <sup>1</sup>	Sales value	"Manufacturers"	"Jobbers"	"Contractors"			
		(1,000 dozen)	(\$1,000)	(1,000 dozen)	(1,000 dozen)	(1,000 dozen)	(1,000 dozen)	(1,000 dozen)	(\$1,000)
2321---	Men's dress and sport shirts and nightwear.....	xxx	827,416	xxx	xxx	xxx	xxx	xxx	680,548
23211	Men's and boys' woven dress and sport shirts.....	xxx	634,001	xxx	xxx	xxx	xxx	xxx	526,945
	Shirts, excluding uniform shirts:								
2321111	Men's dress and business shirts.....	7,611	203,556	5,737	1,862	12	1,956	<sup>2</sup> 12,459	<sup>2</sup> 325,306
2321115	Boys' dress shirts (sizes 4-20).....	1,081	16,982	481	600	...	416	<sup>2</sup> 1,217	<sup>2</sup> 21,262
	Men's sport shirt made from woven fabrics:								
2321131	Chiefly cotton.....	7,027	161,305	(NA)	(NA)	(NA)	3,968	4,583	152,673
2321133	Chiefly rayon and acetate.....	4,240	113,079	2,241	1,993	5	2,358		
2321135	Other woven sport shirts, including wool	1,031	34,619	459	570	...	269		
2321137	Boys' sport shirts made from woven fabrics.	5,609	86,439	2,818	2,771	6,070	1,926	1,541	27,704
	Shirts, uniform, men's and boys':								
2321151	Military.....	116	2,574	48	68	...	1,135	(NA)	(NA)
2321155	Nonmilitary.....	454	10,798	301	126	...	93	( <sup>2</sup> )	( <sup>2</sup> )
2321100	Men's and boys' woven sport shirts, not specified by kind.....	xxx	4,649	xxx	xxx	xxx	...	xxx	xxx
23212	Men's and boys' nightwear.....	xxx	76,003	xxx	xxx	xxx	xxx	xxx	79,163
	Nightwear made from woven fabrics:								
2321211	Men's pajamas and other nightwear.....	2,306	59,232	849	1,455	2	1,216	2,116	68,549
2321251	Boys' pajamas and other nightwear (sizes 4-20).....	571	10,514	196	367	7	308	474	10,614
	Nightwear made from knit fabrics:								
2321261	Nightwear made from circular knit cotton and/or wool fabrics.....	328	5,995	240	88	...	151	(NA)	(NA)
2321265	Nightwear made from circular knit silk, rayon, nylon, and other man-made fabrics.	(NA)	179	(NA)	(NA)	(NA)	(NA)	(4)	(4)
2321271	Nightwear made from warp knit fabrics, all fibers.....								
2321200	Nightwear, not specified by kind.....	xxx	83	xxx	xxx	xxx	...	xxx	xxx
22532 pt.	Knit outerwear sport shirts <sup>2</sup> .....	xxx	109,838	xxx	xxx	xxx	xxx	xxx	60,015
	Men's:								
2253211	Sweat shirts.....	1,515	18,350	(NA)	(NA)	(NA)	...	766	8,938
2253217	Polo, tennis, basque, T, and other shirts..	6,387	58,435	(NA)	(NA)	(NA)	502	5,431	37,863
	Boys':								
2253221	Sweat shirts.....	194	1,934	(NA)	(NA)	(NA)	...	358	2,823
2253227	Polo, tennis, basque, T, and other knit shirts.....	3,986	31,119	(NA)	(NA)	(NA)	490	1,585	10,391
2321000	Men's dress and sport shirts and nightwear, not specified by kind.....	xxx	7,574	xxx	xxx	xxx	<sup>6</sup> 3,772	xxx	14,425
2322---	Men's and boys' underwear.....	xxx	214,315	xxx	xxx	xxx	xxx	xxx	193,711
	Underwear made from woven fabrics:								
2322011	Men's undershorts.....	9,728	58,097				951	6,161	39,350
2322013	Boys' undershorts (sizes 4-20).....	427	1,756				5	580	2,544
2322015	Men's and boys' union suits.....	74	1,093				3	428	5,790
	Underwear made from circular knit cotton and/or wool fabrics: <sup>5</sup>								
	Union suits:								
2322021	Men's heavyweight (9 lb. and over in size 42).....	515	10,207				...	1,592	29,874
2322023	Boys' heavyweight (6 lb. and over in size 34 or age 16).....	102	1,026				...	588	6,550
2322025	Men's and boys' lightweight.....	305	4,234				...	924	10,662
	Undershorts:								
2322031	Men's and boys' heavyweight 25% or more wool (7 lb. and over in size 42).....	114	2,861				...	73,010	719,860
2322033	Men's and boys' heavyweight, less than 25% wool or all-cotton and medium weight.....	297	3,531				79		
2322034	Men's and boys' lightweight, with 1/4 sleeves, (under 4-1/2 lb. in men's size 42)	6,858	38,914				44		
2322036	Men's sleeveless athletic type.....	6,599	25,484				24	8,762	34,298
2322037	Boys' sleeveless athletic type.....	1,381	4,140				24	1,270	4,389
2322038	Men's and boys' balbriggan, three-button front.....	39	364				...	(7)	(7)
	Drawers:								
2322041	Heavyweight 25% or more wool (7 lb. and over in size 38).....	192	4,002				...	298	3,913
2322047	Supporter type, including half, knee, and full-length.....	764	6,706				...	786	5,843
2322049	All other, including balbriggan.....	233	2,675				...	229	1,918

See footnotes at end of table.

## MEN'S AND BOYS' FURNISHINGS, WORK CLOTHING, AND ALLIED GARMENTS

23B-25

Table 6A.--QUANTITY AND VALUE OF PRODUCTS SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, FOR THE UNITED STATES: 1954 AND 1947--Continued

Product code	Product	Garments cut							
		1954						1947	
		Total		From materials owned by establishments classified as--			Cuttings of garments on contract	Quantity	Sales value
		Quantity	Sales value	"Manufacturers"	"Jobbers"	"Contractors"			
		(1,000 dozen)	(\$1,000)	(1,000 dozen)	(1,000 dozen)	(1,000 dozen)	(1,000 dozen)	(1,000 dozen)	(\$1,000)
2322----	Men's and boys' underwear--Continued								
	Underwear made from circular knit cotton and/or wool fabrics <sup>5</sup> --Continued								
	Shorts and briefs:								
2322051	Men's and boys' knit shorts (loose-leg nonsupporter type).....	653	2,939				1	787	3,796
2322053	Men's briefs (supporter type).....	5,208	27,823				97	3,427	17,424
2322055	Boys' briefs (supporter type).....	3,650	13,206				81	1,137	4,890
2322061	Underwear made from warp knit fabrics, all fibers <sup>5</sup> .....	67	545	(NA)	(NA)	(NA)	...	424	4227
2322071	Underwear made from circular knit silk, rayon, nylon, and other man-made fibers <sup>5</sup> .....	602	2,769				12	4194	41,275
2322000	Men's and boys' underwear, not specified by kind.	xxx	1,943	xxx	xxx	xxx	6259	xxx	1,108
2323----	Men's and boys' neckties, mufflers, and scarfs, total <sup>8</sup> .....	xxx	101,280	xxx	xxx	xxx	xxx	xxx	116,670
2323011	Woven neckties.....	10,386	93,339	8,776	912	16	1,070	12,351	111,217
	Knit neckties:								
2323013	Quantity reported.....	406	2,461	(NA)	(NA)	(NA)	(D)	418	2,547
	Quantity not reported.....	xxx	1,422						
	Woven mufflers and scarfs:								
2323015	Quantity reported.....	155	1,918	(NA)	(NA)	(NA)	(D)	xxx	2,906
	Quantity not reported.....	xxx	1,087						
	Knit mufflers and scarfs:								
2323019	Quantity reported.....	101	742						
	Quantity not reported.....	xxx	311						
2323000	Men's and boys' neckties, mufflers, and scarfs, not specified by kind.....	...	...	...	...	...	6910	...	...
2325----	Cloth hats and caps, total <sup>8</sup> .....	xxx	62,877					xxx	41,087
	Men's and boys' cloth hats:								
2325011	Quantity reported.....	1,054	7,868					481	4,770
	Quantity not reported.....	xxx	998						
	Men's and boys' caps:								
2325015	Quantity reported.....	3,170	22,712	(NA)	(NA)	(NA)	(NA)	2,531	17,544
	Quantity not reported.....	xxx	3,376						
	Men's and boys' uniform hats and caps:								
2325017	Quantity reported.....	601	5,652					(NA)	( <sup>9</sup> )
	Quantity not reported.....	xxx	1,944						
2325021	Women's uniform hats and caps.....	(NA)	717					(NA)	(NA)
2325031	Men's and boys' knit headwear.....	200	1,215					169	895
2325035	Women's and misses' knit headwear including head scarfs, fascinators and hoods.....	607	6,088					403	3,425
2325000	Cloth hats and caps, not specified by kind.....	xxx	12,307					xxx	914,453
2326000	Hat and cap materials <sup>8</sup> .....	xxx	9,610					xxx	11,679
2327----	Separate dress and sport trousers, total.....	xxx	369,082	xxx	xxx	xxx	xxx	xxx	326,254
	Trousers, pants, and slacks, excluding uniform trousers:								
	Men's:								
2327011	50% or more wool.....	1,336	127,786	731	598	5	477	2,173	178,784
2327015	Chiefly rayon and other man-made fibers....	2,584	130,372	(NA)	(NA)	(NA)	1,048	873	49,311
2327017	Chiefly cotton.....	754	26,678	302	442	9	225	493	19,688
2327021	Students' and cadets' (sizes 25-34).....	241	10,024	139	101	3	84	387	18,956
	Junior boys' (sizes 4-20):								
2327041	Dress and sport trousers.....	1,279	41,172	772	506	...	410	1,126	35,438
2327045	Outerwear dress shorts and short pants.....	238	4,093	183	55	...	30		
	Trousers, uniform:								
2327061	Men's, military <sup>3</sup> .....	62	4,537	57	3	1	80	24	2,271
2327063	Men's, nonmilitary.....	172	12,002	142	28	...	11	125	11,717
2327065	Boys', uniform.....	209	2,949	4	204	1	5		
2327000	Separate dress and sport trousers, not specified by kind.....	xxx	9,469	xxx	xxx	xxx	62,359	xxx	10,089
2328----	Work shirts, total.....	xxx	90,450	xxx	xxx	xxx	xxx	xxx	98,483
2328011	Men's work shirts.....	4,754	82,364	3,084	1,417	8	975	4,959	86,763
2328051	Boys' work shirts (sizes 4-20).....	536	8,086	506	31	...	22	856	11,720
2328000	Work shirts, men's and boys' not specified by kind.....	...	...	...	...	...	6141	...	...

See footnotes at end of table.



Table 6A.--QUANTITY AND VALUE OF PRODUCTS SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, FOR THE UNITED STATES: 1954 AND 1947--Continued

Product code	Product	Garments cut							
		1954						1947	
		Total		From materials owned by establishments classified as—			Cuttings of garments on contract	Quantity	Sales value
		Quantity	Sales value	"Manufac- turers"	"Jobbers"	"Con- tractors"			
(1,000 dozen)	(\$1,000)	(1,000 dozen)	(1,000 dozen)	(1,000 dozen)	(1,000 dozen)	(1,000 dozen)	(\$1,000)		
2329---	Men's and boys' clothing, n.e.c., total.....	xxx	720,623	xxx	xxx	xxx	xxx	xxx	551,915
23291	Men's and boys' work clothing, except work shirts.....	xxx	404,649	xxx	xxx	xxx	xxx	xxx	332,005
2329111	Men's work pants.....	4,908	135,530	3,437	1,410	38	1,178	3,125	93,796
2329115	Boys' work pants (size 4-20).....	402	9,005	322	77	2	142	607	12,896
2329131	Men's dungarees and waistband overalls.....	4,025	86,727	3,251	748	21	590	1,874	42,659
2329133	Men's bib overalls.....	1,078	33,301	976	101	...	47	2,372	70,859
2329135	Boys' dungarees and waistband overalls (size 4-20).....	4,006	69,190	2,893	1,112	1	642	1,440	25,674
2329137	Boys' bib overalls (sizes 4-20).....	164	3,022	136	28	...	...	1,126	21,408
	Men's other work uniforms and washable service apparel:								
2329151	Overall and work jackets.....	510	15,305	470	34	1	95	398	11,308
2329153	One-piece work suits and coveralls, excluding waterproof and flight clothing..	460	21,154	423	29	6	58	437	19,717
2329155	Oil-fabric work garments, except raincoats.	6	202	6	...	...	...	86	3,529
2329157	Washable service apparel (medical, barber, baker, etc.).....	1,441	25,812	1,350	33	1	123	1,634	30,159
2329100	Men's and boys' work clothing, not specified by kind.....	xxx	5,401	xxx	xxx	xxx	...	...	...
23292	Men's and boys' heavy outerwear coats and jackets	xxx	167,768	xxx	xxx	xxx	xxx	xxx	100,524
2329211	Men's blanket-lined, pile-lined, and quilt- lined jackets.....	700	58,128	528	170	1	272	230	10,469
2329221	Boys' blanket-lined, pile-lined, and quilt- lined jackets (sizes 4-20).....	497	30,043	347	149	...	163		
2329231	Men's mackinaws and mackinaw coats.....	36	3,064	33	1	2	15	10,177	10,144
2329235	Men's melton and lumber jackets.....	78	5,934	59	19	...	12,746	11,142	11,988
2329241	Boys' mackinaws and mackinaw coats (size 4-20)	14	689	13	...	...	24	(10)	(10)
2329245	Boys' melton and lumber jackets (size 4-20)..	60	3,348	35	25	...	16	(11)	(11)
	Other jackets, excluding tailored, leather, and sheeplined:								
2329251	Men's.....	757	42,028	592	142	21	42	1,011	65,677
2329261	Boys' (size 4-20).....	615	21,187	449	162	3	193		
2329200	Men's and boys' heavy outerwear coats and jackets, not specified by kind.....	xxx	3,347	xxx	xxx	xxx	...	...	...
23293	Men's and boys' other outerwear.....	xxx	36,531	xxx	xxx	xxx	xxx	xxx	(NA)
	Slack suits:								
2329311	Men's.....	2	167	1	1	...	...	(NA)	(12)
2329331	Boys'.....	15	687	13	2	...	3	(NA)	(12)
2329351	Ski and snow pants and leggings, woven fabric	27	1,151	20	6	...	7	(NA)	(12)
2329371	Boys' wash suits (size 2-12).....	382	8,781	281	100	...	...	458	9,532
2329300	Men's and boys' other outerwear, not specified by kind.....	xxx	25,745	xxx	xxx	xxx	...	xxx	(12)
22531 pt	Sweaters, knit jackets, and jerseys, total <sup>2</sup> .....	xxx	63,720	xxx	xxx	xxx	xxx	xxx	70,142
	Men's:								
2253111	All wool.....	805	36,272	(NA)	(NA)	(NA)	94	1,838	61,798
2253115	Part-wool (25% or more wool).....	103	4,853				93		
2253117	Other yarns.....	303	11,016				62		
	Boys':								
2253121	All wool.....	221	7,574	(NA)	(NA)	(NA)	159	371	8,344
2253125	Part-wool (25% or more wool).....	30	813				18		
2253127	Other yarns.....	176	3,192				99		
22533 pt	Swimwear and athletic shorts, total <sup>3</sup> .....	xxx	28,275	xxx	xxx	xxx	xxx	xxx	20,596
2253311	Knit swimwear.....	150	2,606	(NA)	(NA)	(NA)	...	203	3,717
2253321									
2253313									
2253315	Woven fabric swimwear and athletic shorts.....	1,324	25,669	(NA)	(NA)	(NA)	237	1,029	16,879
2253325									
2329000	Men's and boys' clothing, n.e.c., not specified by kind.....	xxx	19,680	xxx	xxx	xxx	63,038	xxx	128,648

NA Not available.

<sup>1</sup>For some products, the total quantity shown includes a small volume which is not included in the separate figures for "Manufacturers," "Jobbers," and "Contractors."<sup>2</sup>Product codes 2321111 and 2321115 also include product code 2321155.<sup>3</sup>Excludes garments made from government-owned materials except for quantities shown for cuttings of garments on contract.<sup>4</sup>Product code 2321265 combined with 2322071, and product code 2321271 combined with 2322061.<sup>5</sup>The 1947 figures represent quantity and value of shipments, including interplant shipments.<sup>6</sup>Figures shown are dollar value (in thousands) of contract receipts by establishments not specifying the kind of garments cut on contract.<sup>7</sup>Includes product code 232038.<sup>8</sup>Figures represent quantity and value of production.<sup>9</sup>Product code 2325017 combined with product code 2325000.<sup>10</sup>Product code 2329241 combined with product code 2329231.<sup>11</sup>Product code 2329245 combined with product code 2329235.<sup>12</sup>Product codes 2329311, 2329331, 2329351 and 2329300 included in product code 2329000.

## MEN'S AND BOYS' FURNISHINGS, WORK CLOTHING, AND ALLIED GARMENTS

23B-27

Table 6B.—VALUE OF PRODUCT CLASSES SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, BY DIVISIONS AND STATES FOR 1954, AND UNITED STATES TOTALS FOR EARLIER YEARS

(In thousands of dollars. Statistics are shown for selected product classes which are economically significant and production of which is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (Table 2) and they are not miscellaneous or "not specified by type" classes. For each product class, States are listed only if the value of shipments is more than \$1 million and the figure does not disclose individual company information. Additional States which had shipments of more than \$1 million of the individual product classes are listed in footnote 1)

Product class, region, and State <sup>1</sup>	Value of shipments	Product class, region, and State <sup>1</sup>	Value of shipments	Product class, region, and State <sup>1</sup>	Value of shipments
<u>Men's and boys' woven dress and sport shirts (23211)</u>		<u>Men's and boys' underwear (23220)</u>		<u>Cloth hats and caps (23250)--</u>	
1954 United States, total.....	634,001	1954 United States, total.....	214,315	Continued	
1947 United States, total.....	526,945	1947 United States, total.....	193,711	Middle Atlantic.....	27,047
1954		1954		New York.....	21,072
New England.....	30,666	New England.....	4,541	New Jersey.....	2,663
Maine.....	9,792	Middle Atlantic.....	64,169	Pennsylvania.....	3,312
Massachusetts.....	15,455	New York.....	17,388	East North Central.....	13,317
Middle Atlantic.....	298,407	New Jersey.....	1,838	Ohio.....	1,366
New York.....	189,699	Pennsylvania.....	44,943	Illinois.....	7,931
New Jersey.....	21,808	East North Central.....	20,835	Wisconsin.....	3,549
Pennsylvania.....	86,899	Indiana.....	1,976	West North Central.....	11,352
East North Central.....	30,726	Wisconsin.....	11,566	Minnesota.....	1,837
Ohio.....	22,039	West North Central.....	9,685	Missouri.....	9,329
Indiana.....	4,217	South Atlantic.....	45,114	South Atlantic.....	2,404
Illinois.....	3,427	North Carolina.....	28,530	East South Central.....	3,064
West North Central.....	22,992	South Carolina.....	6,839	Kentucky.....	1,762
Minnesota.....	4,980	Georgia.....	8,490	West South Central.....	1,223
Missouri.....	17,163	East South Central.....	67,737	Texas.....	1,223
South Atlantic.....	105,819	Kentucky.....	32,378	Pacific.....	1,726
Maryland.....	14,438	Tennessee.....	18,975	California.....	1,604
Virginia.....	10,045	Alabama.....	10,788		
North Carolina.....	11,625	Mississippi.....	5,595	<u>Men's and boys' separate trousers</u>	
South Carolina.....	20,530	West South Central.....	1,719	<u>(except work) (23270)</u>	
Georgia.....	44,764	<u>Men's and boys' neckwear (23230)</u>		1954 United States, total.....	369,082
East South Central.....	92,063	1954 United States, total.....	101,280	1947 United States, total.....	326,254
Kentucky.....	8,266	1947 United States, total.....	116,670	1954	
Tennessee.....	38,291	1954		New England.....	11,474
Alabama.....	33,835	New England.....	5,910	Massachusetts.....	10,130
Mississippi.....	11,670	Massachusetts.....	3,214	Connecticut.....	1,257
West South Central.....	10,951	Connecticut.....	2,626	Middle Atlantic.....	134,392
Arkansas.....	5,038	Middle Atlantic.....	66,992	New York.....	83,516
Mountain.....	1,901	New York.....	56,207	New Jersey.....	4,065
Pacific.....	40,483	New Jersey.....	3,723	Pennsylvania.....	46,810
Oregon.....	4,465	Pennsylvania.....	7,056	East North Central.....	48,083
California.....	35,595	East North Central.....	8,818	Ohio.....	21,496
<u>Men's and boys' nightwear (23212)</u>		Ohio.....	4,801	Indiana.....	12,425
1954 United States, total.....	76,003	Illinois.....	2,606	Illinois.....	11,336
1947 United States, total.....	79,163	West North Central.....	3,217	Wisconsin.....	2,007
1954		Missouri.....	2,787	West North Central.....	19,692
New England.....	879	South.....	11,296	Missouri.....	18,202
Middle Atlantic.....	50,312	Maryland.....	2,094	South Atlantic.....	57,290
New York.....	28,278	West.....	5,047	Maryland.....	23,275
Pennsylvania.....	21,721	California.....	4,377	Virginia.....	5,002
East North Central.....	3,958	<u>Cloth hats and caps (23250)</u>		Georgia.....	26,321
West North Central.....	830	1954 United States, total.....	62,877	Florida.....	1,835
South Atlantic.....	10,105	1947 United States, total.....	41,087	East South Central.....	42,698
Maryland.....	7,555	1954		Kentucky.....	4,543
East South Central.....	9,301	New England.....	1,952	Tennessee.....	11,915
Alabama.....	2,814	Massachusetts.....	1,742	Alabama.....	12,936
				Mississippi.....	13,304
				West South Central.....	30,986
				Louisiana.....	4,126
				Texas.....	21,986

See footnotes at end of table.

## MANUFACTURES--INDUSTRY STATISTICS

Table 6B.--VALUE OF PRODUCT CLASSES SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, BY DIVISIONS AND STATES FOR 1954, AND UNITED STATES TOTALS FOR EARLIER YEARS--Continued

Product class, region, and State <sup>1</sup>	Value of shipments	Product class, region, and State <sup>1</sup>	Value of shipments	Product class, region, and State <sup>1</sup>	Value of shipments
<u>Men's and boys' separate trousers (except work) (23270)--Continued</u>		<u>Men's and boys' work clothing, except work shirts (23291)--Continued</u>		<u>Men's and boys' heavy outerwear coats and jackets (23292)--Continued</u>	
Mountain.....	1,258	Middle Atlantic.....	26,457	1947 United States, total.....	100,524
Colorado.....	1,062	New York.....	12,514	1954	
Pacific.....	23,207	New Jersey.....	4,397	New England.....	16,578
California.....	18,483	Pennsylvania.....	9,545	Maine.....	1,856
<u>Men's and boys' work shirts (23280)</u>		East North Central.....	51,333	Massachusetts.....	11,268
1954 United States, total.....	90,450	Ohio.....	9,829	Middle Atlantic.....	72,928
1947 United States, total.....	98,483	Indiana.....	24,083	New York.....	38,549
1954		Illinois.....	9,394	New Jersey.....	15,812
Middle Atlantic.....	8,171	Michigan.....	3,477	Pennsylvania.....	18,566
New York.....	5,766	Wisconsin.....	4,548		
East North Central.....	6,831	West North Central.....	37,633	East North Central.....	24,903
Ohio.....	2,518	Iowa.....	3,587	Ohio.....	5,239
Indiana.....	3,463	Missouri.....	25,942	Indiana.....	5,432
West North Central.....	3,546	South.....	245,689	Illinois.....	6,539
Missouri.....	3,012	South Atlantic.....	88,355	Michigan.....	2,531
South.....	71,219	Maryland.....	3,923	Wisconsin.....	5,161
South Atlantic.....	15,444	Virginia.....	27,957	West North Central.....	17,660
Maryland.....	1,648	North Carolina.....	17,707	Minnesota.....	7,928
Virginia.....	1,279	Georgia.....	35,163	Missouri.....	7,648
North Carolina.....	4,895	Florida.....	1,392		
Georgia.....	7,098	East South Central.....	91,564	South.....	24,479
East South Central.....	45,059	Kentucky.....	15,890	South Atlantic.....	7,002
Tennessee.....	23,352	Tennessee.....	37,476	Virginia.....	1,181
Mississippi.....	13,582	Alabama.....	18,251	North Carolina.....	1,233
West South Central.....	10,716	Mississippi.....	19,946	Georgia.....	3,640
Louisiana.....	2,342	West South Central.....	66,357	East South Central.....	12,161
Texas.....	6,792	Arkansas.....	7,083	Tennessee.....	6,762
<u>Men's and boys' work clothing, except work shirts (23291)</u>		Louisiana.....	6,780	West South Central.....	5,316
1954 United States, total.....	404,649	Oklahoma.....	2,563		
1947 United States, total.....	332,005	Texas.....	49,931	Pacific.....	10,568
1954		West.....	35,590	Washington.....	3,903
New England.....	7,360	Washington.....	2,066	Oregon.....	1,921
Massachusetts.....	5,894	California.....	28,635	California.....	4,743
		<u>Men's and boys' heavy outerwear coats and jackets (23292)</u>			
		1954 United States, total.....	167,768		

<sup>1</sup>For the specified product classes, shipments of over \$1 million were reported for the States listed but the exact figures are withheld to avoid disclosure of individual company figures: 23211, Rhode Island, Connecticut, Wisconsin, Delaware, Florida, Louisiana, Texas, and Colorado; 23212, Indiana, Kentucky, Tennessee, and Mississippi; 23220, New Hampshire, Ohio, Illinois, Minnesota, Oklahoma, and Texas; 23230, Kentucky; 23270, Arkansas, and Washington; 23280, Pennsylvania, Kentucky, Alabama, and Arkansas; 23291, Minnesota, Kansas, Colorado, Washington, and Oregon; 23292, Rhode Island, Nebraska, Mississippi, Arkansas, and Oklahoma.



Table 8.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY INDUSTRY SPECIALIZATION AND PRIMARY PRODUCT CLASS SPECIALIZATION, FOR THE UNITED STATES: 1954

(This table presents selected statistics for establishments classified according to their degree of specialization in products primary to the industry. The establishments are classified in two ways: (1) by industry specialization—the degree of specialization in all primary products of the industry; and (2) by product-class specialization—the degree of specialization in the largest product class of the establishment. The degree of "industry specialization" for an establishment represents the ratio of its primary product shipments to its total product shipments, primary and secondary. The degree of "product-class specialization" for an establishment represents the ratio of its largest product class shipments to its total product shipments, primary and secondary. Data are not shown for some industries, product classes, and specialization ranges for a variety of reasons, consequently, detailed figures frequently do not add to the totals. See Introduction for detailed explanation)

Ind. or product class No.	Industry or product class by percent of specialization	Establishments, number	All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
2321 Pt.A	MEN'S DRESS SHIRTS AND NIGHTWEAR "MANUFACTURERS" (all establishments).....	389	50,752	117,025	46,370	83,943	96,809	196,318	233,754	430,072
	Establishments with:									
	90% or more specialization.....	322	39,462	90,077	36,316	65,812	75,537	157,185	182,351	339,537
	75-89% specialization.....	20	3,466	8,849	3,096	5,469	6,871	15,052	17,261	32,313
	50-74% specialization.....	37	6,905	15,908	6,116	11,038	12,693	21,194	32,410	53,605
	All other <sup>1</sup> .....	10	919	2,191	841	1,623	1,708	2,886	1,730	4,617
23211 Pt.A	Men's and boys' woven dress and sport shirts, "Manufacturers:"									
	All establishments specializing in product class.	264	42,699	100,460	38,919	70,456	82,609	170,279	198,742	369,022
	Establishments with:									
	90% or more specialization.....	200	32,512	74,717	29,925	53,846	62,618	133,744	147,131	280,876
	75-89% specialization.....	19	3,817	10,299	3,356	6,365	7,727	16,357	20,446	36,803
	50-74% specialization.....	31	3,579	7,973	3,364	5,909	6,927	10,874	17,142	28,017
	Less than 50% specialization.....	14	2,790	7,470	2,272	4,335	5,336	9,303	14,021	23,325
23212 Pt.A	Men's and boys' nightwear "Manufacturers:"									
	All establishments specializing in product class.	21	4,224	8,086	3,957	7,095	7,095	14,830	20,233	35,063
	Establishments with:									
	90% or more specialization.....	13	1,499	2,960	1,388	2,584	2,592	6,472	7,601	14,073
22532 Pt.A	Knit outerwear sport shirts "Manufacturers:" <sup>2</sup>									
	All establishments specializing in product class.	32	2,606	5,901	2,413	4,333	4,990	7,721	12,120	19,842
	Establishments with:									
	90% or more specialization.....	24	1,386	2,719	1,313	2,389	2,358	3,807	6,082	9,890
2321 Pt.B	MEN'S DRESS SHIRTS AND NIGHTWEAR "JOBBER" (all establishments).....	193	6,434	20,436	4,846	7,054	9,062	52,969	235,555	288,525
	Establishments with:									
	90% or more specialization.....	169	4,252	13,775	3,172	4,260	5,655	33,133	163,598	196,733
	75-89% specialization.....	11	786	2,997	568	829	1,130	4,963	19,066	24,029
	50-74% specialization.....	10	940	2,794	696	1,277	1,632	12,829	39,593	52,423
	All other <sup>1</sup> .....	3	454	869	408	667	644	2,043	13,296	15,339
23211 Pt.B	Men's and boys' woven dress and sport shirts, "Jobbers:"									
	All establishments specializing in product class.	163	5,945	18,957	4,516	6,891	8,809	48,988	208,832	257,822
	Establishments with:									
	90% or more specialization.....	136	3,515	10,493	2,650	3,600	4,705	24,784	121,870	146,656
	75-89% specialization.....	10	674	3,407	504	885	1,215	7,448	29,048	36,497
	50-74% specialization.....	11	1,182	3,810	950	1,735	2,235	12,969	34,324	47,294
	Less than 50% specialization.....	6	573	1,247	411	670	652	3,785	23,589	27,375
23212 Pt.B	Men's and boys' nightwear "Jobbers:"									
	All establishments specializing in product class.	16	374	1,167	260	137	185	3,365	22,831	26,196
	Establishments with:									
	90% or more specialization.....	11	135	498	86	59	75	1,388	11,351	12,739
2322 Pt.A	MEN'S AND BOYS' UNDERWEAR "MANUFACTURERS" (all establishments).....	49	6,456	13,406	6,070	10,508	11,710	23,329	36,090	59,420
	Establishments with:									
	90% or more specialization.....	30	4,417	9,538	4,121	7,183	8,309	17,361	25,066	42,428
	75-89% specialization.....	5	341	742	330	563	618	1,307	1,724	3,031
	50-74% specialization.....	10	973	1,680	935	1,442	1,518	2,258	4,794	7,052
	All other <sup>1</sup> .....	4	725	1,445	683	1,318	1,264	2,402	4,505	6,908
2327 Pt.A	SEPARATE TROUSERS "MANUFACTURERS" (all establishments).	212	21,938	51,745	20,197	36,826	41,333	81,435	103,513	184,948
	Establishments with:									
	90% or more specialization.....	155	14,852	34,810	13,838	25,200	28,266	57,418	73,531	130,950
	75-89% specialization.....	13	914	1,915	827	1,524	1,558	2,399	3,176	5,576
	50-74% specialization.....	28	4,667	10,910	4,200	7,633	8,513	15,142	20,117	35,259
	All other <sup>1</sup> .....	16	1,504	4,113	1,331	2,467	2,995	6,474	6,687	13,162
2327 Pt.B	SEPARATE TROUSERS "JOBBER" (all establishments)	169	2,826	8,983	2,086	3,453	4,501	22,978	85,290	108,269
	Establishments with:									
	90% or more specialization.....	136	1,705	6,238	1,098	1,756	2,466	16,271	64,225	80,497
	75-89% specialization.....	11	190	695	132	186	297	1,756	4,952	6,709
	50-74% specialization.....	14	496	1,301	447	747	883	3,068	7,605	10,674
	All other <sup>1</sup> .....	8	434	949	409	762	854	1,881	8,507	10,389

See footnotes at end of table.

## MANUFACTURES--INDUSTRY STATISTICS

Table 8.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY INDUSTRY SPECIALIZATION AND PRIMARY PRODUCT CLASS SPECIALIZATION, FOR THE UNITED STATES: 1954—Continued

Ind. or product class No.	Industry or product class by percent of specialization	Establishments, number	All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
2329 Pt.A	MEN'S AND BOYS' CLOTHING, N.E.C. "MANUFACTURERS" (all establishments).....	694	61,999	140,340	55,821	99,586	110,137	217,421	329,281	546,702
	Establishments with:									
	90% or more specialization.....	421	27,047	61,095	24,659	43,610	49,476	99,508	143,752	243,261
	75-89% specialization.....	93	11,397	25,353	10,287	18,080	20,042	40,001	57,138	97,140
	50-74% specialization.....	150	20,798	47,600	18,373	33,255	35,692	70,596	115,442	186,038
	All other <sup>1</sup> .....	30	2,757	6,291	2,500	4,640	4,926	7,314	12,948	20,263
23291 Pt.A	Men's and boys' work clothing, except work shirts "Manufacturers:"									
	All establishments specializing in product class.	335	42,366	89,323	38,378	67,813	71,424	140,365	230,525	370,890
	Establishments with:									
	90% or more specialization.....	153	15,029	30,753	14,069	24,523	26,394	54,642	82,380	137,022
	75-89% specialization.....	63	8,500	18,391	7,612	13,332	14,612	27,889	45,593	73,483
	50-74% specialization.....	96	16,811	35,745	14,851	26,363	26,971	52,166	92,497	144,663
	Less than 50% specialization.....	23	2,025	4,433	1,844	3,594	3,446	5,667	10,054	15,721
23292 Pt.A	Men's and boys' heavy outerwear coats and jackets "Manufacturers:"									
	All establishments specializing in product class.	150	12,254	32,486	10,957	20,102	24,636	49,764	68,488	118,252
	Establishments with:									
	90% or more specialization.....	76	3,838	10,514	3,353	6,182	7,901	16,210	20,045	36,255
	75-89% specialization.....	21	1,837	4,583	1,699	3,081	3,709	7,390	9,257	16,648
	50-74% specialization.....	35	4,840	12,832	4,330	7,923	9,554	18,789	30,475	49,265
	Less than 50% specialization.....	18	1,738	4,556	1,574	2,915	3,471	7,373	8,710	16,083
23293 Pt.A	Men's and boys' outerwear, n.e.c. "Manufacturers:"									
	All establishments specializing in product class.	51	2,790	7,378	2,472	4,418	5,657	11,709	9,811	21,521
	Establishments with:									
	90% or more specialization.....	23	1,307	3,383	1,172	2,172	2,771	5,070	4,271	9,342
	75-89% specialization.....	6	398	1,147	357	588	824	1,804	2,032	3,837
	50-74% specialization.....	15	649	1,587	556	915	1,123	2,957	1,922	4,880
	Less than 50% specialization.....	7	435	1,260	386	743	939	1,877	1,584	3,461
22533 Pt.A	Swimwear and athletic shorts "Manufacturers" <sup>3</sup>									
	All establishments specializing in product class.	20	1,355	3,306	1,168	2,135	2,289	4,960	4,600	9,561
	Establishments with:									
	90% or more specialization.....	14	1,150	2,740	990	1,813	1,902	4,206	3,877	8,083
2329 Pt.B	MEN'S AND BOYS' CLOTHING, N.E.C. "JOBBER" (all establishments).....	96	4,532	12,357	3,515	6,121	6,965	43,676	130,496	174,172
	Establishments with:									
	90% or more specialization.....	49	675	2,687	457	812	1,211	5,407	23,242	28,650
	75-89% specialization.....	14	1,691	3,440	1,526	2,447	2,470	8,176	33,209	41,385
23291 Pt.B	Men's and boys' work clothing except work shirts "Jobbers:"									
	All establishments specializing in product class.	36	3,222	6,849	2,699	4,757	4,826	18,940	85,879	104,820
	Establishments with:									
	90% or more specialization.....	13	73	198	38	72	98	510	2,468	2,979
	75-89% specialization.....	7	1,540	2,817	1,480	2,417	2,408	7,081	26,974	34,056
23292 Pt.B	Men's and boys' heavy outerwear coats and jackets "Jobbers:"									
	All establishments specializing in product class.	38	736	3,103	438	664	927	6,230	28,309	34,539
	Establishments with:									
	90% or more specialization.....	20	365	1,419	272	476	614	3,084	11,541	14,626
	75-89% specialization.....	7	131	594	85	104	184	1,130	6,485	7,615
	50-74% specialization.....	7	118	543	72	75	112	1,040	6,170	7,211
	Less than 50% specialization.....	4	120	546	7	8	16	974	4,113	5,087
23293 Pt.B	Men's and boys' other outerwear "Jobbers:"									
	All establishments specializing in product class.	10	112	358	86	109	151	1,038	2,957	3,995
	Establishments with:									
	90% or more specialization.....	5	31	104	23	53	59	289	1,366	1,656

Note: Plant specialization data are not shown for industries 2321, 2322, 2327, and 2329 since specialization ratios for contractors were not computed. Such ratios would not be meaningful since they could relate to only a minor portion of the contractors' total activity, that is, production on own account from materials owned by them, and would not be representative of the activity of these establishments as a whole.

<sup>1</sup>This class includes data for establishments with less than 50 percent specialization in the primary products of the industry and miscellaneous small statistical adjustments.

<sup>2</sup>Represents establishments specializing in the production of knit outerwear sport shirts from purchased knit fabric.

<sup>3</sup>Represents establishments specializing in the production of swimwear and athletic shorts from purchased fabrics.







## Women's and Misses' Outerwear

This report shows 1954 Census of Manufactures statistics for establishments classified in each of the following industries:

Code	Title
2331--	Blouses
2333--	Dresses, Unit Price
2334--	Dresses, Dozen Price
2337--	Women's Suits, Coats and Skirts
2338--	Women's Neckwear and Scarfs
2339--	Women's Outerwear, Not Elsewhere Classified

2331--Blouses (Full Standard Industrial Classification Title: Women's and Misses' Blouses and Waists)

This industry comprises establishments primarily engaged in manufacturing women's, misses', and juniors' blouses, waists, and shirts. Establishments engaged in the manufacture of women's, misses', and juniors' knit outerwear sport shirts (polo, tennis, basque, etc.) from yarns knit in the same establishment are classified in Industry 2253, Knit Outerwear Mills; knit outerwear sport shirts made from purchased knit fabric are classified in Industry 2339, Women's Outerwear, N.E.C.

The value of production of Industry 2331, Blouses, in 1954 totaled \$375 million. This included output of primary products (blouses) valued at \$269 million, production of secondary products valued at \$19 million, and miscellaneous receipts (mainly contract work on materials owned by others) of \$88 million.

Industry 2331 value of output of blouses in 1954, as in 1947, represented 93 percent of its total products (primary and secondary). Secondary products made by Industry 2331 in 1954 consisted mainly of women's and misses' skirts, \$8 million, and girls' and children's dresses and blouses \$3 million.

Industry 2331 production of blouses in 1954 represented 85 percent of the blouses, valued at \$317 million, made by all industries. This coverage ratio in 1947 was 88 percent. Other industries making blouses consisted mainly of Industry 2337, Women's Suits, Coats, and Skirts, \$23 million, and Industry 2333, Dresses, Unit Price, \$11 million.

2333--Dresses, Unit Price (Full Standard Industrial Classification Title: Women's and Misses' Dresses)

This industry comprises establishments primarily engaged in manufacturing women's and misses' dresses, including ensemble dresses. The garments manufactured by establishments classified in this industry are usually sold by the piece. Establishments primarily engaged in manufacturing aprons, smocks, hoovers, and house dresses, usually sold by the dozen, are classified in Industry 2334. Knitting mills primarily engaged in manufacturing women's, misses' and juniors' knit dresses and suits are classified in Industry 2253, Knit Outerwear Mills.

The value of production of Industry 2333, Dresses, Unit Price, in 1954 totaled \$1,455 million. This included output of primary products (dresses, unit price) valued at \$1,148 million, production of secondary products valued at \$54 million, and miscellaneous receipts (mainly contract work on materials owned by others) of \$253 million.

Industry 2333 value of output of dresses, unit price in 1954 represented 96 percent of its total products (primary and secondary). In 1947, this primary product specialization ratio was 95 percent. Secondary products made by Industry 2333 in 1954 consisted mainly of women's, misses', and juniors' blouses, \$11 million; women's, misses', and juniors' suits, \$16 million; and women's, misses', and juniors' skirts, \$15 million.

Industry 2333 production of unit-priced dresses, in 1954 represented 95 percent of these products, valued at \$1,208 million, made by all industries. This coverage ratio in 1947 was 97 percent. Other industries making unit-priced dresses consisted mainly of Industry 2253, Knit Outerwear Mills, \$37

million and Industry 2337, Women's Suits, Coats, and Skirts, \$15 million.

2334--Dresses, Dozen Price (Full Standard Industrial Classification Title: Household Apparel)

This industry comprises establishments primarily engaged in manufacturing women's and misses' household apparel, chiefly of washable fabrics. The garments manufactured by establishments classified in this industry are usually sold by the dozen, and include such articles as aprons, smocks, hoovers, house dresses, and nurses' and maids' uniforms. Establishments primarily engaged in manufacturing aprons, smocks, hoovers, etc., of plastic or rubberized fabrics are classified in Industry 2385, Waterproof Outergarments; aprons, smocks, hoovers, etc., of rubber in Industry 3099, Rubber Industries, N.E.C. For a detailed list of primary products of Industry 2334, refer to Table 6A, product codes 2334111 to 2334237.

The value of production of Industry 2334, Dresses, Dozen Price, in 1954 totaled \$435 million. This included output of primary products (women's, misses', and juniors' dozen-priced dresses, and washable service apparel) valued at \$354 million, production of secondary products valued at \$22 million, and miscellaneous receipts (mainly contract work on materials owned by others) of \$59 million.

Industry 2334 value of output of primary products in 1954 represented 94 percent of its total products (primary and secondary). In 1947, this primary product specialization ratio was 89 percent. Secondary products made by this industry in 1954 consisted mainly of men's and boys' work clothing except work shirts, \$5 million, and women's, misses' and juniors' skirts, \$3 million.

Industry 2334 production of primary products (women's, misses', and juniors' dozen-priced dresses and washable service apparel) in 1954 represented 96 percent of these products, valued at \$367 million, made by all industries. This coverage ratio in 1947 was also 96 percent. Other industries making women's, misses', and juniors' dozen-priced dresses and washable service apparel in 1954 consisted mainly of Industry 2329, Men's and Boys' Clothing, N.E.C., \$6 million, and Industry 2337, Women's Suits, Coats, and Skirts, \$2 million.

2337--Women's Suits, Coats and Skirts (Full Standard Industrial Classification Title: Women's and Misses' Suits, Coats (Except Fur Coats), and Skirts)

This industry comprises establishments primarily engaged in manufacturing women's and misses' suits, ensemble suits, skirts, and coats other than fur. Establishments primarily engaged in manufacturing women's and misses' jackets (except leather), fur-trimmed coats and uniform coats, suits, and jackets are also included in Industry 2337. Establishments primarily engaged in manufacturing fur garments are classified in Industry 2371, Fur Goods; and knitting mills primarily engaged in manufacturing outerwear in Industry 2253, Knit Outerwear Mills. Establishments primarily engaged in manufacturing women's and misses' ski, snow, and slack suits, play garments, slacks, and work jackets are classified in Industry 2339, Women's Outerwear, N.E.C. For a detailed list of products of Industry 2337, refer to Table 6A, product codes 2337111 to 2337411.

The value of products of Industry 2337, Women's Suits, Coats, and Skirts, in 1954 totaled \$1,261 million. This included output of primary products (women's, misses', and juniors' suits, coats, and skirts) valued at \$1,026 million, production of secondary products valued at \$64 million, and miscellaneous receipts (mainly contract work on materials owned by others) of \$171 million.

Industry 2337 value of output of primary products in 1954 represented 94 percent of its total product made (primary and secondary). In 1947, this primary product specialization ratio

was 95 percent. Secondary products made by Industry 2337 in 1954 consisted mainly of women's, misses', and juniors' blouses and waists, \$23 million; women's, misses', and juniors' dresses, unit price, \$15 million; and women's, misses', and juniors' outerwear, n.e.c., \$12 million.

Industry 2337 production of primary products in 1954 represented 93 percent of these products, valued at \$1,096 million, made by all industries. This coverage ratio in 1947 was 93 percent. Other industries making women's, misses', and juniors' suits, coats, and skirts in 1954 consisted mainly of Industry 2333, Dresses, Unit Price, \$35 million; Industry 2331, Blouses, \$9 million; and Industry 2339, Women's Outerwear, N.E.C., \$10 million.

In the 1947 Census of Manufactures, the statistics for Industry 2337 were published as two separate subindustries, "Women's Suits and Coats," and "Women's Skirts." For the 1954 Census, the figures are shown for the industry as a whole in Tables 1-5. In Table 8A, however, statistics similar to those shown in Table 1 are presented separately for "manufacturers" and "jobbers" by product class (i.e. coats, suits, skirts, and jackets). Thus it is possible to recompile the 1954 figures on a basis closely comparable to the 1947 information previously shown for the two subindustries.

#### 2338--Women's Neckwear and Scarfs

This industry comprises establishments primarily engaged in manufacturing women's neckwear, scarfs, and dummies cut and sewed from purchased woven or knit fabric. Knitting mills primarily engaged in manufacturing neckwear or scarfs are classified in Industry 2253, Knit Outerwear Mills.

The value of production of Industry 2338, Women's Neckwear and Scarfs, in 1954 totaled \$26 million. This included output of primary products (women's neckwear and scarfs) valued at \$23 million, production of secondary products valued at \$1 million, and miscellaneous receipts (mainly contract work on materials owned by others) of \$2 million.

Industry 2338 value of output of women's neckwear and scarfs in 1954 represented 95 percent of its total products (primary and secondary). In 1947, this primary product specialization ratio was 96 percent. The principal secondary product made by Industry 2338 in 1954 consisted of children's outerwear, n.e.c.

Industry 2338 production of women's neckwear and scarfs in 1954 represented 75 percent of the women's neckwear and scarfs, valued at \$31 million, made by all industries. This coverage ratio in 1947 was 96 percent. Other industries making women's neckwear and scarfs in 1954 consisted mainly of Industry 2253, Knit Outerwear Mills, \$5 million, and Industry 2331, Blouses, \$1 million. The change in the coverage ratio reflects increased production of these products by plants classified in other industries.

#### 2339--Women's Outerwear, N.E.C. (Full Standard Industrial Classification Title: Women's and Misses' Outerwear, Not Elsewhere Classified)

This industry comprises establishments primarily engaged in manufacturing women's and misses' outerwear, not elsewhere classified, such as bathing suits, beachwear, slacks, riding habits, ski suits, swimwear, sweaters, and outerwear sport shirts, cut and sewed from purchased woven or knit fabric. Knitting mills primarily engaged in manufacturing outerwear are classified in Industry 2253, Knit Outerwear Mills. For a detailed list of products of Industry 2339 refer to Table 6A, product codes 2339011 to 2339061, 2253131 to 2253147, 2253231 and 2253331 to 2253335.

The value of production of Industry 2339, Women's Outerwear, N.E.C., in 1954 totaled \$252 million. This included output of primary products (women's outerwear, n.e.c., including sweaters, knit outerwear sport shirts, and swimwear) valued at \$175 million, output of secondary products valued at \$38 million, and miscellaneous receipts (mainly contract work on materials owned by others) of \$39 million.

Industry 2339 value of output of primary products in 1954 represented 82 percent of its total products (primary and secondary). In 1947, this primary specialization ratio was 70 percent. This increase of 12 percentage points in the specialization ratio between the two years reflects the relatively large increase in the output of the primary products of this industry whereas the output of the secondary products remained about the same. Secondary products made by Industry 2339 in 1954 consisted mainly of misses' and juniors' blouses, \$4 million; women's, misses', and juniors' jackets, \$5 million; and women's, misses', and juniors' skirts \$5 million.

Industry 2339 production of primary products in 1954 represented 44 percent of these products, valued at \$395 million, made by all industries. This coverage ratio in 1947 was 33 percent. Other industries making women's outerwear, n.e.c., including sweaters, knit outerwear sport shirts, and swimwear consisted mainly of Industry 2253, Knit Outerwear Mills, \$173 million; Industry 2329, Men's and Boys' Clothing, N.E.C., \$16 million; Industry 2337, Women's Suits, Coats, and Skirts, \$14 million.

#### Relationship of Census of Manufactures and Facts For Industry Data

In addition to the Census of Manufactures data for the industries covered by this report, the Bureau of the Census publishes current monthly statistics on four of these industries in the Facts For Industry series M67H, "Women's, Misses', and Juniors' Apparel." 1954 data were shown on the monthly cuttings of the principal outerwear garments (i.e. blouses, unit and dozen-price dresses, coats, suits, skirts, and sweaters) and on the value of shipments of the Blouse, Unit-Price Dress, Dozen-Price Dress, Coat, Suit, and Skirt Industries. The 1954 Census figures shown in Table 6A may differ from the sum of the twelve monthly estimates shown in the Facts For Industry reports primarily due to differences in reporting by the same respondents on the current and census questionnaires, and to some extent to the effect of sampling variations in the current estimates. In addition, it should be noted that some manufacturers in reporting for the 1954 Census did not adequately describe the specific garments which they made. The value of such output is shown in Table 6A under the several categories for "Not specified by kind," or "quantities not reported." The 1954 Census statistics on number of garments cut do not, of course, include the output represented by such values.

Regarding the current estimates shown in the Facts For Industry reports on the value of shipments by industry, it should be noted that these data do not include the receipts for contract and commission work. The 1954 Census figures on the value of shipments by industry, however, include such receipts. The monthly estimates, therefore, are more closely comparable to the data shown in Table 5B on the value of shipments of primary and secondary products for each of the industries. In addition, the monthly estimates show separate figures for the Coat and Suit Industry and for the Skirt Industry, whereas the 1954 Census combines these establishments in one industry. Table 8 of this report, however, shows figures which will yield comparable information to that shown in the Facts For Industry for these sub-industry classifications.

The general statistics (employment, payrolls, value of shipments, cost of materials, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products, and, for that matter, their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (Tables 1-4) with product statistics (Table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in Table 5A which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry made as secondary products by establishments classified in other industries.



Table 1.—GENERAL STATISTICS FOR THE UNITED STATES: 1954 AND EARLIER YEARS  
(For explanation of column captions see Introduction)

Industry and census year	Establishments, number	All employees		Production workers		Value added by manufacture <sup>2</sup> (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments <sup>3</sup> (\$1,000)
		Number <sup>1</sup>	Payroll (\$1,000)	Number <sup>1</sup>	Wages (\$1,000)			
Blouses (S.I.C. 2331):								
1954.....	1,245	42,980	99,818	39,567	82,201	165,352	209,910	375,262
1953 <sup>4</sup> .....	(NA)	43,008	110,168	39,515	86,092	186,795	203,151	389,946
1952 <sup>4</sup> .....	(NA)	36,795	85,034	33,435	69,947	157,692	192,570	350,262
1951 <sup>4</sup> .....	(NA)	35,532	84,481	31,534	67,426	139,716	188,749	328,465
1947.....	1,362	32,883	67,667	30,066	54,332	123,928	152,647	276,575
1939.....	302	10,950	10,164	9,673	7,392	16,853	24,878	41,731
1937.....	192	6,983	6,146	6,404	5,011	12,300	16,920	29,220
1935 <sup>5</sup> .....	224	6,971	6,294	6,372	5,140	11,241	17,578	28,819
Dresses, unit price (S.I.C. 2333):								
1954.....	4,114	143,278	418,577	129,527	334,819	661,292	793,788	1,455,080
1953 <sup>4</sup> .....	(NA)	144,994	433,790	131,261	342,565	697,892	755,146	1,453,038
1952 <sup>4</sup> .....	(NA)	129,090	394,574	113,780	304,702	609,862	852,674	1,462,536
1951 <sup>4</sup> .....	(NA)	125,049	360,962	108,769	274,911	574,341	773,897	1,348,238
1950 <sup>4</sup> .....	(NA)	137,873	351,242	123,596	284,138	512,474	608,949	1,121,423
1949 <sup>4</sup> .....	(NA)	154,140	387,071	131,919	302,881	559,951	812,653	1,372,604
1947.....	4,205	133,779	372,080	118,678	295,768	612,240	746,790	1,359,030
1939.....	2,916	119,451	143,810	103,738	108,401	218,331	287,930	506,261
1937 <sup>6</sup> .....	2,422	100,281	117,525	92,091	96,933	200,477	261,099	461,576
Dresses, dozen price (S.I.C. 2334):								
1954.....	892	54,507	127,276	49,442	100,137	205,070	230,146	435,216
1953 <sup>4</sup> .....	(NA)	54,834	137,484	48,579	102,085	202,832	270,576	473,408
1952 <sup>4</sup> .....	(NA)	55,191	125,459	49,512	98,425	210,543	234,186	444,729
1951 <sup>4</sup> .....	(NA)	51,111	113,693	45,610	87,081	188,988	200,777	389,765
1947.....	917	48,590	90,221	43,808	68,503	152,222	196,563	348,785
1939.....	742	42,618	31,289	38,794	24,006	48,525	65,173	113,698
1937 <sup>6</sup> .....	482	34,287	23,162	32,289	19,368	41,172	55,962	97,134
Women's suits, coats and skirts (S.I.C. 2337):								
1954.....	3,204	96,022	326,933	84,410	252,312	529,623	731,697	1,261,320
1947.....	2,972	82,721	282,907	72,921	228,268	477,360	615,447	1,092,807
1939.....	1,966	52,468	72,628	45,453	56,417	117,358	196,640	313,998
1937.....	1,767	44,707	63,681	39,613	51,712	117,506	203,714	321,220
1935.....	1,703	37,816	53,538	33,237	43,085	93,167	162,268	255,435
Women's neckwear and scarfs (S.I.C. 2338):								
1954.....	133	1,745	6,189	1,457	3,561	9,676	16,620	26,297
1947.....	166	2,754	6,963	2,181	3,829	16,850	34,211	51,061
1939.....	107	2,398	2,681	1,931	1,678	4,748	7,200	11,948
1937 <sup>7</sup> .....	89	(NA)	(NA)	2,206	1,744	4,385	6,636	11,021
Women's outerwear, n.e.c. (S.I.C. 2339):								
1954.....	710	25,361	67,324	22,637	51,503	115,046	137,028	252,074
1947.....	466	12,439	26,681	11,108	20,715	46,122	51,081	97,203
1939 <sup>8</sup> .....	306	(NA)	(NA)	9,306	7,375	15,893	21,349	37,242
1937 <sup>7</sup> .....	197	(NA)	(NA)	5,614	4,422	10,450	16,452	26,902

NA Not available.

<sup>1</sup>For the period 1949-1954, figures are based on employment for the payroll periods ended nearest the 15th of March, May, August and November. For 1947, they represent the average of 12 monthly figures. For earlier years, the production worker average was calculated as in 1947, but the figure for all employees represents the sum of the annual average number of production workers and the number of nonproduction workers reported for one payroll period (usually in October).

<sup>2</sup>Value of products less cost of materials, supplies, fuel, electric energy and contract work. See Introduction, "Value Added by Manufacture."

<sup>3</sup>For 1935-1947 and 1954, value of production; for 1949-1953, value of shipments. See Introduction, "Value of Shipments."

<sup>4</sup>For all years, value of production. See Introduction, "Value of Shipments."

<sup>5</sup>The figures for 1949-1953 represent estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period. Estimates with a standard error in excess of 15 percent generally have been omitted from this table.

<sup>6</sup>"Blouses" was not shown as a separate industry prior to 1935, but was included with the industry formerly designated "Clothing, women's, n.e.c." Prior to 1937, "Dresses, unit price" and "Dresses, dozen price" were not shown as separate industries, but were combined in the two classifications, "Dresses-regular factories" and "Dresses-contract factories."

<sup>7</sup>"Women's neckwear and scarfs" and "Women's outerwear, n.e.c." were not shown as separate industries prior to 1937, but were included with the industries formerly designated "Clothing, n.e.c.--regular factories" and "Clothing, n.e.c.--contract factories."

<sup>8</sup>The figures for 1939 are not entirely comparable with those for 1937. Value added by manufacture for 1939, on a basis comparable with 1937 was \$17.1 million.

## MANUFACTURES—INDUSTRY STATISTICS

Table 2.—GENERAL STATISTICS BY REGIONS AND STATES: 1954 AND 1947  
(For explanation of column captions see Introduction)

Industry, region, and State <sup>1</sup>	1954											1947	
	Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
	Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
Blouses (S.I.C. 2331), total.....	1,245	700	42,980	99,818	39,567	67,901	82,201	165,352	209,910	375,262	2,445	32,883	123,928
New England.....	60	39	1,943	4,234	1,829	2,952	3,670	6,381	5,147	11,529	83	1,359	5,337
Connecticut.....	19	15	758	1,648	728	1,189	1,498	2,069	890	2,960	17	487	1,869
Middle Atlantic.....	950	550	33,393	78,772	30,751	52,944	64,363	131,076	175,179	306,255	1,885	25,686	97,737
New York.....	667	304	16,632	43,822	14,706	24,562	32,620	81,920	145,031	226,952	1,048	15,638	67,921
New Jersey.....	62	46	2,447	5,651	2,337	3,996	5,022	7,965	3,618	11,584	182	2,500	7,524
Pennsylvania.....	221	200	14,314	29,298	13,707	24,385	26,720	41,191	26,529	67,719	655	7,548	22,292
East North Central.....	30	17	938	2,413	810	1,399	1,958	3,971	3,017	6,989	37	(D)	(D)
Michigan.....	5	2	108	280	94	169	220	568	377	945	(D)	222	973
West North Central.....	10	6	325	708	284	470	575	1,214	865	2,080	4	(D)	(D)
South.....	56	35	3,005	5,770	2,778	4,989	4,928	10,179	11,335	21,515	248	885	2,672
Maryland.....	8	6	563	1,217	482	869	918	2,775	1,176	3,952	41	274	(D)
Virginia.....	3	3	228	374	218	368	338	467	33	500	(D)	...	...
North Carolina.....	8	5	377	587	362	610	512	684	971	1,655	10	(D)	(D)
Texas.....	18	10	657	1,214	604	1,127	1,014	1,798	1,421	3,220	29	(D)	(D)
West.....	139	53	3,373	7,921	3,112	5,145	6,704	12,529	14,363	26,893	187	3,201	12,562
"Manufacturers" (S.I.C. 2331, Pt. A), total.....	291	140	9,191	23,488	8,257	14,787	18,766	39,173	41,236	80,408	498		
New England.....	13	8	386	989	359	630	849	1,850	1,933	3,784	22		
Middle Atlantic.....	164	77	4,781	12,831	4,340	7,889	10,088	20,303	24,587	44,889	251		
New York.....	128	53	2,897	8,206	2,595	4,625	6,163	13,568	16,752	30,320	157		
North Central.....	32	18	1,060	2,687	895	1,543	2,110	4,564	3,707	8,272	38		
Michigan.....	5	2	108	280	94	169	220	568	377	945	(D)		
South.....	30	16	1,467	3,131	1,313	2,455	2,614	6,082	4,764	10,847	102		
West.....	52	21	1,495	3,849	1,349	2,267	3,103	6,372	6,243	12,616	82		
"Jobbers" (S.I.C. 2331, Pt. B), total..	225	60	4,376	18,311	2,704	4,268	7,992	51,059	158,481	209,541	249		
New England.....	6	2	84	379	44	88	171	928	2,927	3,856	9		
Middle Atlantic.....	200	54	4,044	16,861	2,504	3,861	7,241	47,059	141,706	188,766	219	(NA)	(NA)
New York.....	196	50	3,390	14,844	1,993	3,047	5,914	41,480	124,805	166,285	204		
South and West.....	19	4	248	1,071	155	319	579	3,071	13,847	16,919	20		
"Contractors" (S.I.C. 2331, Pt. C), total..	729	500	29,412	58,018	28,605	48,845	55,441	75,119	10,192	85,312	1,698		
New England.....	41	29	1,472	2,865	1,425	2,233	2,650	3,603	286	3,889	51		
Connecticut.....	15	14	703	1,494	680	1,107	1,377	1,749	119	1,868	(D)		
Middle Atlantic.....	586	419	24,567	49,079	23,907	41,193	47,033	63,713	8,886	72,600	1,413		
New York.....	343	201	10,344	20,771	10,118	16,889	20,542	26,871	3,474	30,346	685		
New Jersey.....	56	43	2,255	4,933	2,200	3,730	4,646	6,527	1,364	7,892	164		
Pennsylvania.....	187	175	11,967	23,374	11,588	20,572	21,844	30,315	4,046	34,362	563		
North Central.....	8	5	204	434	199	327	423	620	176	797	3		
South and West.....	94	47	3,167	5,640	3,073	5,091	5,334	7,181	843	8,025	229		
Virginia.....	3	3	228	374	218	368	338	467	33	500	(D)		
North Carolina.....	4	4	270	391	261	456	353	356	45	401	(D)		
Dresses, unit price (S.I.C. 2333), total..	4,114	2,502	143,278	418,577	129,527	219,314	334,819	661,292	793,788	1,455,080	5,069	133,779	612,240
New England.....	236	194	13,851	34,238	13,045	21,505	28,878	52,962	51,809	104,771	444	9,440	30,787
Massachusetts.....	148	116	8,691	22,457	8,104	13,474	18,391	35,774	41,493	77,267	249	5,991	20,222
Rhode Island.....	11	11	750	1,615	736	1,336	1,526	2,586	61	2,647	(D)	423	809
Connecticut.....	65	56	3,378	8,358	3,231	5,267	7,458	11,088	8,031	19,119	160	2,895	9,572
Middle Atlantic.....	3,229	1,976	103,381	312,381	93,429	157,318	250,715	491,150	645,421	1,136,571	3,299	98,280	469,570
New York.....	2,660	1,547	77,782	256,237	69,083	117,458	200,407	418,667	605,302	1,023,969	2,353	78,041	415,153
New Jersey.....	276	198	9,801	23,248	9,388	14,454	21,062	29,989	16,700	46,690	250	8,821	27,186
Pennsylvania.....	293	231	15,797	32,896	14,958	25,405	29,245	42,492	23,418	65,911	696	11,418	27,231
East North Central.....	150	97	8,284	25,120	7,129	12,466	18,305	37,968	34,648	72,617	480	10,355	50,433
Ohio.....	13	10	1,397	4,828	1,206	2,323	3,371	8,080	10,018	18,099	84	1,178	6,043
Illinois.....	120	74	4,949	14,845	4,423	7,276	11,421	21,812	15,138	36,951	323	7,474	33,147
Wisconsin.....	10	9	1,490	4,391	1,142	2,252	2,735	6,343	8,381	14,725	68	636	(D)

See footnotes at end of table.

## WOMEN'S AND MISSES' OUTERWEAR

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Table 2.—GENERAL STATISTICS BY REGIONS AND STATES: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Industry, region, and State <sup>1</sup>	1954											1947	
	Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
	Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
Dresses, unit price (S.I.C. 2333)—Con.													
West North Central.....	71	49	4,749	12,248	4,249	7,478	9,637	20,843	14,299	35,142	117	5,767	22,092
Missouri.....	58	39	4,057	10,411	3,625	6,421	8,164	18,065	12,500	30,566	104	5,026	19,885
South Atlantic.....	83	45	3,045	7,195	2,786	4,926	5,703	13,333	10,418	23,752	194	1,998	6,111
Maryland.....	6	4	352	1,110	308	512	679	1,954	1,842	3,797	7	517	2,088
Georgia.....	7	5	366	924	324	563	660	1,292	938	2,231	11	452	1,099
Florida.....	53	23	1,108	2,823	975	1,634	2,184	4,655	3,709	8,364	131	192	577
East South Central.....	6	2	175	403	158	310	291	712	687	1,400	48	499	1,391
West South Central.....	42	29	3,073	7,836	2,693	4,945	5,730	12,480	9,290	21,771	160	1,554	6,142
Mountain.....	22	9	447	935	389	669	753	1,470	1,098	2,569	32	(D)	(D)
New Mexico.....	5	2	121	228	101	182	195	252	170	423	(D)	...	...
Arizona.....	11	4	206	473	184	318	367	846	689	1,535	16	...	...
Pacific.....	275	101	6,270	18,219	5,646	9,692	14,803	30,371	26,114	56,486	291	(D)	(D)
California.....	271	101	6,254	18,184	5,630	9,670	14,768	30,326	26,089	56,416	291	5,630	24,738
"Manufacturers" (S.I.C. 2333, Pt. A), total.....	1,109	555	41,734	138,443	36,364	65,010	104,769	223,088	224,046	447,134	1,870		
New England.....	42	27	2,114	6,355	1,912	3,205	4,924	11,695	13,003	24,699	177		
Middle Atlantic.....	645	305	20,502	76,349	17,691	31,812	57,733	119,413	134,859	254,273	647		
New York.....	569	273	17,927	69,172	15,367	27,587	51,964	109,485	122,408	231,893	544		
New Jersey.....	31	13	966	2,576	872	1,570	2,018	4,256	4,485	8,742	22		
Pennsylvania.....	45	19	1,609	4,600	1,451	2,654	3,750	5,671	7,966	13,637	80		
East North Central.....	88	54	5,419	17,942	4,608	8,212	12,702	28,167	26,139	54,307	418		
Illinois.....	71	42	3,378	11,110	2,924	4,962	8,093	16,689	13,072	29,762	299		
West North Central.....	51	36	4,066	10,691	3,617	6,426	8,309	17,378	12,208	29,586	100		
South.....	100	55	4,869	12,348	4,318	7,912	9,398	21,905	17,665	39,571	313		
Florida.....	47	18	861	2,340	743	1,290	1,817	3,909	3,321	7,231	117		
Mountain.....	22	9	447	935	389	669	753	1,470	1,098	2,569	32		
New Mexico.....	5	2	121	228	101	182	195	252	170	423	(D)		
Arizona.....	11	4	206	473	184	318	367	846	689	1,535	16		
Pacific.....	161	69	4,314	13,822	3,827	6,770	10,948	23,057	19,070	42,128	181		
"Jobbers" (S.I.C. 2333, Pt. B), total..	650	263	17,023	80,332	11,119	19,366	40,767	193,415	552,684	746,098	1,316		
New England.....	20	10	548	2,877	302	445	822	9,708	33,652	43,361	33		
Middle Atlantic.....	593	245	15,256	73,442	9,986	17,363	37,811	174,062	500,123	674,185	1,232		
New York.....	573	236	14,604	70,309	9,528	16,440	35,976	167,331	476,908	644,240	1,140		
New Jersey.....	7	3	372	1,877	276	562	1,160	3,225	10,779	14,004	61	(NA)	(NA)
Pennsylvania.....	13	6	279	1,255	182	360	674	3,505	12,434	15,940	30		
East North Central.....	5	2	494	1,687	286	638	878	3,229	7,699	10,929	20		
West North Central.....	6	1	223	572	192	377	449	2,174	2,056	4,231	12		
Missouri.....	6	1	223	572	192	377	449	2,174	2,056	4,231	12		
South Atlantic.....	5	3	277	1,005	219	327	453	1,968	2,475	4,444	9		
Pacific.....	21	2	222	747	131	214	352	2,271	6,675	8,947	9		
California.....	21	2	222	747	131	214	352	2,271	6,675	8,947	9		
"Contractors" (S.I.C. 2333, Pt. C), total..	2,355	1,684	84,521	199,802	82,043	134,937	189,282	244,789	17,058	261,847	1,882		
New England.....	174	157	11,188	25,006	10,830	17,855	23,132	31,558	5,152	36,711	233		
Massachusetts.....	99	85	6,865	15,451	6,649	11,066	14,345	19,485	4,516	24,001	134		
Rhode Island.....	11	11	750	1,615	736	1,336	1,526	2,586	61	2,647	(D)		
Connecticut.....	53	51	2,898	6,877	2,806	4,531	6,332	8,250	450	8,701	74		
Middle Atlantic.....	1,991	1,426	67,622	162,590	65,751	108,143	155,170	197,674	10,438	208,113	1,419		
New York.....	1,518	1,038	45,250	116,755	44,187	73,431	112,466	141,850	5,985	147,836	668		
New Jersey.....	238	182	8,462	18,794	8,239	12,321	17,883	22,508	1,435	23,943	166		
Pennsylvania.....	235	206	13,908	27,040	13,324	22,390	24,821	33,315	3,018	36,333	584		
East North Central.....	57	41	2,371	5,490	2,234	3,614	4,724	6,570	809	7,380	42		
Wisconsin.....	6	6	631	1,626	550	987	1,116	1,776	19	1,796	15		
West North Central.....	14	12	460	985	440	674	879	1,291	34	1,325	5		
South.....	26	18	1,146	2,081	1,099	1,943	1,873	2,652	255	2,098	81		
Pacific.....	93	30	1,733	3,649	1,687	2,706	3,502	5,042	368	5,410	101		

See footnotes at end of table.



## MANUFACTURES—INDUSTRY STATISTICS

Table 2.—GENERAL STATISTICS BY REGIONS AND STATES: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Industry, region, and State <sup>1</sup>	1954											1947	
	Establishments, number		All employees		Production workers			Value added by manufacture	Cost of materials, etc.	Value of shipments	Capital expenditures, new	All employees, number	Value added by manufacture
	Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)		(\$1,000)
Dresses, dozen price (S.I.C. 2334), total.	892	533	54,507	127,276	49,442	90,092	100,137	205,070	230,146	435,216	2,366	42,590	152,222
New England.....	66	48	4,249	9,989	3,929	6,985	8,202	14,756	16,722	31,479	108	3,706	12,257
Massachusetts.....	52	37	3,798	9,092	3,501	6,231	7,383	13,848	16,400	30,248	107	2,794	9,559
Middle Atlantic.....	423	233	17,497	43,158	15,846	28,067	32,850	71,217	104,907	176,125	554	15,572	52,626
New York.....	245	103	6,861	19,285	5,885	10,368	13,037	34,708	70,075	104,784	244	6,117	25,471
New Jersey.....	47	31	1,849	4,374	1,765	3,198	3,939	5,626	4,981	10,608	98	2,173	7,099
Pennsylvania.....	131	99	8,787	19,498	8,195	14,500	15,873	30,882	29,850	60,733	211	7,282	20,056
East North Central.....	137	96	11,810	28,210	10,365	18,529	21,163	45,184	44,642	89,826	622	15,431	47,433
Ohio.....	19	13	2,189	5,876	1,715	3,068	3,739	8,833	7,510	16,344	69	3,616	12,523
Indiana.....	12	9	1,228	2,828	1,117	1,936	2,269	4,533	4,112	8,644	35	1,092	3,788
Illinois.....	84	63	7,748	18,046	6,952	12,590	14,062	29,805	31,233	61,038	499	8,315	22,240
Michigan.....	12	7	297	607	276	460	514	973	850	1,824	9	577	1,508
Wisconsin.....	10	4	347	853	303	474	577	1,039	936	1,975	9	1,831	7,374
West North Central.....	67	42	5,132	12,473	4,606	8,386	10,001	24,189	21,104	45,293	245	5,451	18,540
Minnesota.....	11	5	441	1,048	402	657	798	1,312	1,328	2,640	11	443	1,373
Missouri.....	45	31	3,913	9,735	3,475	6,398	7,717	20,403	18,185	38,589	193	4,284	15,716
Kansas.....	6	4	294	639	273	505	537	1,142	1,172	2,314	(D)	299	730
South Atlantic.....	84	65	10,285	21,403	9,625	18,731	18,248	30,102	26,135	56,238	606	4,516	10,840
Maryland.....	19	16	1,609	3,984	1,477	2,921	3,153	6,275	4,151	10,427	119	680	1,804
Virginia.....	12	12	2,378	5,108	2,236	4,446	4,540	7,502	9,221	16,723	62	1,244	2,240
North Carolina.....	6	5	317	544	308	596	524	784	741	1,526	(D)	109	(D)
South Carolina.....	15	14	3,454	6,320	3,288	6,524	5,534	8,079	5,412	13,491	300	568	(D)
Georgia.....	7	4	261	581	213	398	393	861	1,098	1,959	21	304	(D)
Florida.....	12	5	718	1,499	670	1,280	1,277	2,281	2,775	5,056	37	95	(D)
East South Central.....	18	14	2,194	4,385	2,014	3,734	3,472	7,150	4,986	12,137	120	1,120	2,151
Tennessee.....	8	6	1,248	2,355	1,199	2,306	2,155	4,217	1,930	6,147	25	696	1,237
Alabama.....	4	3	241	384	227	397	340	624	418	1,042	(D)	132	(D)
West South Central.....	24	13	1,740	3,472	1,642	3,084	3,017	5,103	5,239	10,343	51	1,497	3,602
Texas.....	16	9	814	1,643	748	1,376	1,353	2,436	3,233	5,669	22	1,129	(D)
West.....	73	22	1,598	4,184	1,410	2,571	3,181	7,365	6,408	13,774	56	1,297	4,773
California.....	58	18	1,211	3,302	1,068	1,940	2,471	5,544	4,693	10,237	47	964	3,763
"Manufacturers" (S.I.C. 2334, Pt. A), total.	441	231	26,718	66,983	23,465	42,694	48,962	113,838	119,163	233,002	1,094		
New England.....	32	17	2,158	5,444	1,932	3,454	4,113	8,205	10,199	18,404	67		
Massachusetts.....	27	15	2,069	5,253	1,853	3,316	3,973	8,159	9,930	18,089	67		
Middle Atlantic.....	156	74	6,382	16,703	5,633	10,393	12,141	27,988	29,707	57,695	165		
New York.....	106	48	3,637	9,790	3,150	5,767	6,963	15,815	17,225	33,041	120		
New Jersey.....	9	4	351	952	314	585	735	1,416	2,473	3,890	9		
Pennsylvania.....	41	22	2,393	5,960	2,169	4,039	4,443	10,755	10,008	20,764	35		
East North Central.....	85	53	7,526	20,019	6,347	11,255	13,795	34,022	34,907	68,930	284		
Indiana.....	8	5	944	2,233	856	1,498	1,755	3,879	4,103	7,982	26		
Illinois.....	42	27	3,917	10,734	3,357	5,995	7,465	19,675	21,527	41,203	171		
Michigan.....	8	4	162	394	145	269	310	701	834	1,536	6		
West North Central.....	48	30	3,354	8,052	3,033	5,407	6,402	15,464	12,168	27,633	91		
Minnesota.....	11	5	441	1,048	402	657	798	1,312	1,328	2,640	11		
Kansas.....	6	4	294	639	273	505	537	1,142	1,172	2,314	(D)		
South and West.....	120	57	7,295	16,764	6,518	12,184	12,509	28,157	32,180	60,338	485		
Maryland.....	9	9	633	1,853	531	992	1,130	3,222	3,915	7,138	28	(NA)	(NA)
South Carolina.....	4	3	821	1,569	753	1,433	1,192	2,770	4,843	7,614	186		
California.....	37	12	904	2,725	770	1,466	1,909	4,664	4,399	9,064	38		
"Jobbers" (S.I.C. 2334, Pt. B), total..	68	32	4,059	14,307	3,107	5,957	8,424	35,821	107,007	142,829	398		
Northeast.....	59	24	2,284	9,010	1,688	3,122	4,469	22,524	79,622	102,147	142		
New York.....	47	16	1,182	5,148	771	1,325	2,003	13,334	52,465	65,799	95		
Pennsylvania.....	6	6	803	2,957	641	1,212	1,738	6,893	19,199	26,093	30		
North Central.....	6	6	1,363	4,087	1,092	2,149	3,045	10,208	18,304	28,512	230		
South and West.....	3	2	411	1,209	326	686	910	3,088	9,081	12,169	26		
"Contractors" (S.I.C. 2334, Pt. C), total..	383	270	23,729	45,986	22,868	41,440	42,750	55,410	3,974	59,385	873		
Northeast.....	242	166	10,921	21,990	10,521	18,083	20,328	27,256	2,100	29,357	287		
New York.....	92	39	2,041	4,347	1,964	3,274	4,070	5,558	385	5,943	28		
Pennsylvania.....	84	71	5,591	10,581	5,385	9,249	9,692	13,232	642	13,875	146		

See footnotes at end of table.

## WOMEN'S AND MISSES' OUTERWEAR

23C-7

Table 2.—GENERAL STATISTICS BY REGIONS AND STATES: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Industry, region, and State <sup>1</sup>	1954										1947		
	Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
	Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
"Contractors" (S.I.C. 2334, Pt. C)—Con.													
North Central.....	65	49	4,698	8,525	4,499	8,104	7,921	9,678	366	10,044	262		
Indiana.....	4	4	284	595	261	438	514	653	9	662	8		
Michigan.....	4	3	135	213	131	191	204	272	15	288	2		
Missouri.....	13	8	648	1,324	633	1,149	1,268	1,541	61	1,602	118		
South and West.....	76	55	8,110	15,471	7,847	15,251	14,499	18,475	1,507	19,984	323		
Maryland.....	10	7	976	2,131	946	1,929	2,023	3,053	235	3,289	91		
South Carolina.....	11	11	2,633	4,751	2,535	5,091	4,342	5,309	568	5,877	114		
Women's suits, coats, and skirts (S.I.C. 2337), total.	3,204	1,476	96,022	326,933	84,410	147,479	252,312	529,623	731,697	1,261,320	3,621		
New England.....	213	124	8,100	25,322	7,324	13,291	20,691	42,014	57,444	99,459	526		
Massachusetts.....	172	103	6,270	19,668	5,618	10,310	15,745	34,713	53,372	88,086	486		
Middle Atlantic.....	2,376	1,044	62,290	221,972	54,314	94,655	170,822	356,307	528,933	885,247	2,096		
New York.....	1,999	787	45,983	173,305	39,063	68,664	127,687	289,715	489,796	779,515	1,444		
New Jersey.....	307	213	12,634	39,015	11,815	19,987	34,829	52,243	31,397	83,641	541		
Pennsylvania.....	70	44	3,673	9,652	3,435	6,003	8,305	14,348	7,742	22,091	109		
East North Central.....	139	55	5,052	17,349	4,407	7,474	13,171	26,097	27,843	53,930	124		
Ohio.....	24	11	1,238	3,815	1,056	1,790	2,911	5,963	6,507	12,471	27		
Indiana.....	4	3	274	546	260	484	497	707	258	966	26		
Illinois.....	93	31	2,802	10,911	2,434	4,072	8,154	16,407	16,962	33,369	45		
Michigan.....	9	4	231	735	206	370	613	993	1,018	2,011	(D)		
Wisconsin.....	9	6	505	1,340	448	755	994	2,015	3,096	5,112	(D)		
West North Central.....	60	49	4,363	14,773	3,745	6,740	10,106	23,611	24,420	48,032	170		
Missouri.....	44	38	3,325	11,893	2,834	5,158	7,925	18,817	18,610	37,428	120		
South Atlantic.....	52	35	3,245	7,813	3,021	5,169	6,471	13,863	16,341	30,204	104		
Maryland.....	20	15	1,608	4,392	1,460	2,559	3,470	7,915	12,335	20,251	67		
Georgia.....	10	6	270	515	253	432	441	885	982	1,867	4		
Florida.....	13	6	248	721	227	405	599	932	949	1,881	(D)		
East South Central.....	11	7	2,111	4,539	2,029	3,610	3,979	7,685	7,849	15,534	27		
West South Central.....	32	22	1,715	3,958	1,567	2,999	3,115	6,757	5,796	12,554	119		
Texas.....	32	22	1,715	3,958	1,567	2,999	3,115	6,757	5,796	12,554	119		
Mountain.....	8	4	245	550	217	407	403	1,012	627	1,640	5	(NA)	(NA)
Utah.....	4	3	197	420	177	329	311	795	430	1,225	(D)		
Pacific.....	313	136	8,898	30,655	7,782	13,131	23,551	52,282	62,437	114,719	448		
California.....	288	125	8,314	29,015	7,261	12,334	22,269	50,153	59,676	109,829	415		
"Manufacturers" (S.I.C. 2337, Pt. A), total.....	1,154	547	41,158	151,076	35,432	63,858	112,726	246,896	288,566	535,460	1,521		
New England.....	68	36	2,553	9,186	2,249	4,152	7,164	15,793	18,581	34,375	119		
Middle Atlantic.....	669	282	18,743	78,389	15,509	28,640	56,898	128,987	167,076	296,065	616		
New York.....	590	240	15,717	67,342	12,894	23,871	48,350	110,221	144,469	254,692	451		
New Jersey.....	44	21	1,750	6,720	1,482	2,800	5,072	10,997	15,878	26,877	129		
Pennsylvania.....	35	21	1,276	4,326	1,133	1,968	3,476	7,768	6,728	14,496	35		
East North Central.....	94	41	3,926	14,188	3,386	5,786	10,594	21,329	22,764	44,093	87		
Ohio.....	19	10	1,155	3,590	976	1,662	2,690	5,658	6,485	12,143	27		
Illinois.....	62	24	2,254	9,152	1,969	3,312	6,828	13,780	13,532	27,312	34		
Michigan.....	9	4	231	735	206	370	613	993	1,018	2,011	(D)		
West North Central.....	48	39	3,842	13,066	3,277	5,983	8,940	20,483	20,624	41,108	163		
South.....	67	47	5,397	12,643	5,041	9,105	10,484	21,661	20,100	41,762	206		
Maryland.....	10	7	730	2,138	649	1,102	1,626	3,490	3,914	7,405	27		
Texas.....	24	18	1,514	3,545	1,375	2,635	2,780	6,051	5,238	11,290	116		
West.....	208	102	6,695	23,603	5,968	10,190	18,643	38,637	39,418	78,055	328		
Utah.....	4	3	197	420	177	329	311	795	430	1,225	(D)		
California.....	183	89	5,995	21,723	5,336	9,156	17,194	35,918	36,482	72,400	295		
"Jobbers" (S.I.C. 2337, Pt. B), total..	590	139	9,835	50,603	5,540	9,768	21,618	128,620	423,947	552,570	753		
New England.....	33	15	883	3,841	625	1,123	2,321	11,338	37,178	48,517	180		
Middle Atlantic.....	496	109	7,815	42,077	4,279	7,682	17,690	102,755	346,428	449,185	473		
New York.....	480	104	7,460	40,431	4,036	7,231	16,768	98,305	333,300	431,607	455		
New Jersey.....	12	5	338	1,583	235	443	902	4,244	12,438	16,683	14		

See footnotes at end of table.

## MANUFACTURES—INDUSTRY STATISTICS

Table 2.—GENERAL STATISTICS BY REGIONS AND STATES: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Industry, region, and State <sup>1</sup>	1954											1947	
	Establishments, number		All employees		Production workers			Value added by manufacture	Cost of materials, etc.	Value of shipments	Capital expenditures, new	All employees, number	Value added by manufacture (\$1,000)
	Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)		
"Jobbers" (S.I.C. 2337, Pt. B)—Con.													
East North Central.....	14	2	121	457	62	58	104	1,430	4,077	5,508	2	(NA)	(NA)
West North Central.....	4	4	173	739	142	174	355	1,886	3,650	5,537	...		
Missouri.....	4	4	173	739	142	174	355	1,886	3,650	5,537	...		
South.....	4	2	160	660	112	153	256	3,123	9,666	12,790	28		
West.....	39	7	679	2,828	318	577	891	8,087	22,945	31,032	67		
California.....	35	7	665	2,788	316	574	888	7,988	22,601	30,590	67		
"Contractors" (S.I.C. 2337, Pt. C), total..	1,460	790	45,028	125,253	43,436	73,852	117,967	154,106	19,183	173,289	1,347		
New England.....	112	73	4,663	12,295	4,449	8,015	11,204	14,881	1,684	16,566	226		
Massachusetts.....	86	57	3,491	8,679	3,332	6,000	7,936	10,872	1,507	12,380	207		
Middle Atlantic.....	1,211	653	35,732	101,505	34,525	58,332	96,233	124,565	15,430	139,996	1,006		
New York.....	929	443	22,805	65,530	22,132	37,562	62,569	81,189	12,026	93,215	537		
New Jersey.....	251	187	10,545	30,712	10,098	16,743	28,854	37,001	3,079	40,081	398		
Pennsylvania.....	31	23	2,380	5,262	2,294	4,027	4,809	6,374	325	6,699	70		
East North Central.....	31	12	1,004	2,703	958	1,629	2,473	3,326	1,001	4,328	33		
West North Central.....	8	6	348	968	325	582	811	1,241	145	1,387	6		
South.....	24	15	1,512	3,007	1,464	2,521	2,826	3,520	219	3,740	16		
Pacific.....	74	31	1,768	4,774	1,714	2,771	4,419	6,570	701	7,271	58		
California.....	70	29	1,653	4,503	1,608	2,602	4,186	6,247	592	6,839	52		
Women's neckwear and scarfs (S.I.C. 2338), total.....	133	24	1,745	6,189	1,457	2,434	3,561	9,676	16,620	26,297	91	2,754	16,850
Northeast and North Central.....	118	22	1,564	5,813	321	2,176	3,302	8,986	16,096	25,083	56	(D)	(D)
New York.....	102	20	1,402	5,474	1,172	1,924	3,011	8,468	15,619	24,088	55	2,352	15,501
South.....	7	2	130	277	86	184	167	439	325	764	30	(D)	(D)
Pacific.....	8	...	50	98	48	73	90	250	198	449	4	(D)	(D)
"Manufacturers" (S.I.C. 2338, Pt. A), total.....	79	12	1,011	2,927	842	1,320	1,683	4,237	6,054	10,291	48	(NA)	(NA)
Pacific.....	8	...	50	98	48	73	90	250	198	449	4		
All other divisions.....	71	12	961	2,829	794	1,247	1,593	3,987	5,856	9,842	44		
"Jobbers" (S.I.C. 2338, Pt. B), total..	22	5	333	2,391	223	394	1,059	4,188	10,154	14,343	24		
New York.....	20	5	321	2,380	211	381	1,048	4,149	10,015	14,165	22		
All other States.....	2	...	11	10	11	12	10	37	138	177	1		
"Contractors" (S.I.C. 2338, Pt. C), total..	32	7	401	871	391	720	818	1,251	411	1,662	18	(NA)	(NA)
Middle Atlantic.....	32	7	401	871	391	720	818	1,251	411	1,662	18		
Women's outerwear, n.e.c. (S.I.C. 2339), total.....	710	352	25,361	67,324	22,637	42,147	51,503	115,046	137,028	252,074	1,905		
Northeast and North Central.....	523	244	14,843	38,174	13,362	24,930	29,775	62,379	83,329	145,710	814	8,967	32,203
Massachusetts.....	15	27	1,420	3,512	1,303	3,614	2,905	5,130	3,914	9,045	58	640	1,973
Connecticut.....	9	6	274	707	253	446	572	820	575	1,396	(D)	151	293
New York.....	327	133	7,418	19,953	6,628	11,296	15,236	34,042	50,205	84,248	498	4,348	19,072
Pennsylvania.....	43	26	2,289	5,405	2,117	3,865	4,587	8,845	12,589	21,435	113	1,670	3,966
Illinois.....	15	7	426	1,224	360	702	829	1,924	2,399	4,324	22	520	1,781
South Atlantic.....	39	27	2,559	5,929	2,262	3,971	4,365	10,107	16,703	26,811	246	(D)	(D)
Maryland.....	6	6	537	1,869	385	757	1,013	3,455	8,026	11,482	55	197	(D)
North Carolina.....	5	5	932	1,852	882	1,487	1,581	3,291	5,318	8,609	106	...	...
Florida.....	15	8	605	1,388	545	950	1,057	1,909	1,890	3,799	27	105	378
East South Central.....	5	4	734	1,362	715	1,284	1,257	1,641	96	1,737	45	(D)	(D)
West South Central.....	18	11	835	1,843	780	1,574	1,537	2,998	3,668	6,666	95	122	(D)
Texas.....	15	10	801	1,800	748	1,528	1,502	2,994	3,588	6,582	95	122	(D)
Mountain.....	7	3	172	432	151	305	326	805	654	1,460	9	96	261
Pacific.....	118	63	6,215	19,582	5,365	10,079	14,240	37,112	32,575	69,688	693	2,845	11,787
California.....	109	57	5,160	16,492	4,463	8,315	11,951	27,775	24,105	51,880	511	2,682	10,711

See footnotes at end of table.



Table 2.—GENERAL STATISTICS BY REGIONS AND STATES: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Industry, region, and State <sup>1</sup>	1954											1947	
	Establishments, number		All employees		Production workers			Value added by manufacture	Cost of materials, etc.	Value of shipments	Capital expenditures, new	All employees, number	Value added by manufacture
	Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)		
"Manufacturers" (S.I.C. 2339, Pt. A), total.....	278	134	11,886	34,317	10,429	20,945	25,168	60,223	65,552	125,775	1,032		
Northeast and North Central.	176	76	5,268	14,323	4,655	9,978	10,663	24,557	29,206	53,764	374		
Massachusetts.....	16	6	341	1,054	280	1,916	738	1,999	2,897	4,897	(D)		
Connecticut.....	4	3	128	317	115	197	215	335	559	895	(D)		
New York.....	107	40	2,370	6,698	2,110	3,712	4,996	11,612	14,690	26,303	198		
Pennsylvania.....	12	5	606	1,577	550	1,042	1,283	3,327	2,519	5,847	(D)		
Illinois.....	8	4	276	803	246	470	595	1,133	1,162	2,295	(D)		
South.....	38	22	2,507	5,743	2,297	4,231	4,642	9,629	13,895	23,524	221		
Mountain.....	7	3	172	432	151	305	326	805	654	1,460	9		
Pacific.....	57	33	3,937	13,817	3,324	6,429	9,535	25,230	21,796	47,026	427		
"Jobbers" (S.I.C. 2339, Pt. B), total..	106	22	2,083	8,236	1,284	2,427	3,614	22,163	66,531	88,695	140	(NA)	(NA)
Northeast and North Central.	92	18	1,312	5,536	774	1,374	2,275	13,840	50,184	64,026	80		
New York.....	69	15	973	4,143	581	1,015	1,686	10,128	33,029	43,157	70		
South and West.....	14	4	770	2,700	509	1,053	1,338	8,321	16,346	24,669	60		
"Contractors" (S.I.C. 2339, Pt. C), total..	326	196	11,391	24,771	10,923	18,774	22,720	32,659	4,944	37,603	731		
Northeast and North Central.	255	150	8,260	18,314	7,931	13,577	16,835	23,981	3,938	27,919	360		
Connecticut.....	3	3	145	390	137	249	356	485	16	501	(D)		
New York.....	151	78	4,074	9,111	3,936	6,569	8,552	12,301	2,486	14,787	228		
South and West.....	71	46	3,130	6,456	2,991	5,196	5,884	6,678	1,005	9,883	370		
California.....	46	26	1,720	4,047	1,631	2,827	3,673	5,668	647	6,315	233		

Note: Detailed figures may not add to the totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies.

NA Not available.

<sup>1</sup>General statistics for some producing States are not shown separately in the table (see INTRODUCTION "Confidentiality of Data for Individual Companies"). Such States are shown below with the number of establishments in each State for 1954 and, in parentheses, the number of employees or the employment-size range for that State for 1954:

S.I.C. 2331, Blouses: New England—New Hampshire, 1 (20-99); Massachusetts, 40 (1,000-2,499); East North Central—Indiana, 1 (1-19); Illinois, 22 (500-999); Wisconsin, 2 (20-99); West North Central—Missouri, 8 (100-249); Nebraska, 1 (20-99); Kansas, 1 (20-99); South—Delaware, 3 (100-246); West Virginia, 4 (250-499); South Carolina, 2 (20-99); Georgia, 2 (100-249); Florida, 5 (20-99); Tennessee, 1 (20-99); Arkansas, 1 (100-249); Oklahoma, 1 (20-99); West—Colorado, 1 (1-19); New Mexico, 1 (1-19); Arizona, 1 (20-99); Utah, 1 (20-99); Washington, 2 (20-99); Oregon, 1 (1-19); California, 132 (2,500-4,999).

S.I.C. 2331, Pt. A, "Manufacturers": New England—Massachusetts, 11 (250-499); Connecticut, 2 (20-99); Middle Atlantic—New Jersey, 5 (100-249); Pennsylvania, 31 (1,000-2,499); North Central—Indiana, 1 (1-19); Illinois, 17 (500-999); Wisconsin, 2 (20-99); Missouri, 5 (100-249); Nebraska, 1 (20-99); Kansas, 1 (20-99); South—Delaware, 1 (100-249); Maryland, 3 (250-499); North Carolina, 1 (100-249); Georgia, 1 (20-99); Florida, 5 (20-99); Tennessee, 1 (20-99); Arkansas, 1 (100-249); Oklahoma, 1 (20-99); Texas, 15 (250-499); West—Colorado, 1 (1-19); New Mexico, 1 (1-19); Arizona, 1 (20-99); Washington, 2 (20-99); Oregon, 1 (1-19); California, 46 (1,342).

S.I.C. 2331, Pt. B, "Jobbers": New England—Massachusetts, 4 (20-99); Connecticut, 2 (1-19); Middle Atlantic—New Jersey, 1 (20-99); Pennsylvania, 3 (500-999); South and West—North Carolina, 2 (1-19); South Carolina, 1 (1-19); Texas, 1 (1-19); California, 4 (100-249).

S.I.C. 2331, Pt. C, "Contractors": New England—New Hampshire, 1 (20-99); Massachusetts, 25 (500-999); North Central—Illinois, 5 (100-249); Missouri, 3 (20-99); South and West—Delaware, 2 (20-99); Maryland, 5 (250-499); West Virginia, 4 (250-499); South Carolina, 1 (20-99); Georgia, 1 (20-99); Texas, 2 (100-249); Utah, 1 (100-249); California, 71 (1,535).

S.I.C. 2333, Dresses, Unit Price: New England—Maine, 4 (100-249); New Hampshire, 2 (20-99); Vermont, 6 (500-999); East North Central—Indiana, 2 (250-499); Michigan, 5 (20-99); West North Central—Minnesota, 11 (500-999); South Dakota, 1 (1-19); Kansas, 1 (20-99); South Atlantic—Delaware, 1 (20-99); Virginia, 3 (100-249); North Carolina, 7 (100-249); South Carolina, 6 (500-999); East South Central—Kentucky, 1 (1-19); Tennessee, 2 (100-249); Alabama, 3 (20-99); West South Central—Louisiana, 1 (1-19); Oklahoma, 1 (20-99); Texas, 40 (2,500-4,999); Mountain—Colorado, 4 (20-99); Utah, 1 (20-99); Nevada, 1 (1-19); Pacific—Washington, 4 (1-19).

S.I.C. 2333, Pt. A, "Manufacturers": New England—Vermont, 1 (250-499); Massachusetts, 30 (1,000-2,499); Connecticut, 11 (250-499); East North Central—Indiana, 1 (250-499); Michigan, 5 (20-99); Wisconsin, 2 (250-499); West North Central—Minnesota, 10 (500-999); Missouri, 39 (2,500-4,999); South Dakota, 1 (1-19); Kansas, 1 (20-99); South—Maryland, 1 (1-19); Virginia, 3 (100-249); North Carolina, 3 (20-99); South Carolina, 4 (500-999); Georgia, 4 (100-249); Kentucky, 1 (1-19); Tennessee, 2 (100-249); Alabama, 2 (1-19); Louisiana, 1 (1-19); Texas, 32 (2,747); Mountain—Colorado, 4 (20-99); Utah, 1 (20-99); Nevada, 1 (1-19); Pacific—Washington, 3 (1-19); California, 158 (2,500-4,999).

S.I.C. 2333, Pt. B, "Jobbers": New England—Massachusetts, 19 (250-499); Connecticut, 1 (20-99); East North Central—Illinois, 3 (1-99); Wisconsin, 2 (250-499); South Atlantic—Delaware, 1 (20-99); Maryland, 1 (100-249); North Carolina, 1 (1-19); Florida, 2 (20-99).

S.I.C. 2333, Pt. C, "Contractors": New England—Maine, 4 (100-249); New Hampshire, 2 (20-99); Vermont, 5 (250-499); East North Central—Ohio, 4 (100-249); Indiana, 1 (20-99); Illinois, 46 (1,000-2,499); West North Central—Minnesota, 1 (20-99); Missouri, 13 (250-499); South—Maryland, 4 (100-249); North Carolina, 3 (100-249); South Carolina, 2 (100-249); Georgia, 3 (100-249); Florida, 4 (100-249); Alabama, 1 (20-99); Louisiana, 1 (20-99); Oklahoma, 1 (20-99); Texas, 8 (250-499); Pacific—Washington, 1 (1-19); California, 92 (1,000-2,499).

S.I.C. 2334, Dresses, Dozen Price: New England—Maine, 1 (20-99); New Hampshire, 1 (20-99); Vermont, 1 (20-99); Rhode Island, 2 (20-99); Connecticut, 9 (250-499); West North Central—Iowa, 3 (250-499); Nebraska, 2 (20-99); South Atlantic—Delaware, 4 (100-249); District of Columbia, 1 (1-19); West Virginia, 8 (1,339); East South Central—Kentucky, 4 (100-249); Mississippi, 2 (500-999); West South Central—Arkansas, 5 (500-999); Oklahoma, 3 (1-19); West—New Mexico, 1 (1-19); Arizona, 3 (20-99); Utah, 4 (250-499); Nevada, 1 (1-19); Washington, 3 (20-99); Oregon, 3 (1-19).

S.I.C. 2334, Pt. A, "Manufacturers": New England—Rhode Island, 1 (20-99); Connecticut, 4 (20-99); East North Central—Ohio, 18 (1,000-2,499); Wisconsin, 9 (250-499); West North Central—Missouri, 29 (2,500-4,999); Nebraska, 2 (20-99); South and West—District of Columbia, 1 (1-19); Virginia, 2 (250-499); West Virginia, 4 (500-999); North Carolina, 4 (100-249); Georgia, 5 (100-249); Florida, 10 (500-999); Kentucky, 4 (100-249); Tennessee, 5 (500-999); Alabama, 3 (100-249); Mississippi, 1 (250-499); Arkansas, 2 (500-999); Oklahoma, 3 (1-19); Texas, 11 (500-999); New Mexico, 1 (1-19); Arizona, 3 (20-99); Utah, 4 (250-499); Nevada, 1 (1-19); Washington, 3 (20-99); Oregon, 3 (1-19).

Footnotes continued on next page.

## MANUFACTURES--INDUSTRY STATISTICS

Footnotes for Table 2--MC-23C

- S.I.C. 2334, Pt. B, "Jobbers:" Northeast—Massachusetts, 3 (100-249); New Jersey, 3 (20-99); North Central—Illinois, 3 (500-999); Missouri, 3 (500-999); South and West—Virginia, 1 (250-499); Texas, 1 (20-99); California, 1 (1-19).
- S.I.C. 2334, Pt. C, "Contractors:" Northeast—Maine, 1 (20-99); New Hampshire, 1 (20-99); Vermont, 1 (20-99); Massachusetts, 22 (1,484); Rhode Island, 1 (20-99); Connecticut, 5 (100-249); New Jersey, 35 (1,444); North Central—Ohio, 1 (1-19); Illinois, 39 (3,208); Wisconsin, 1 (1-19); Iowa, 3 (250-499); South and West—Delaware, 4 (100-249); Virginia, 9 (1,720); West Virginia, 4 (500-999); North Carolina, 2 (100-249); Georgia, 2 (20-99); Florida, 2 (20-99); Tennessee, 3 (500-999); Alabama, 1 (20-99); Mississippi, 1 (20-99); Arkansas, 3 (250-499); Texas, 4 (100-249); California, 20 (250-499).
- S.I.C. 2337, Women's Suits, Coats, and Skirts: New England—Rhode Island, 2 (20-99); Connecticut, 39 (1,000-2,499); West North Central—Minnesota, 12 (500-999); Nebraska, 2 (250-499); Kansas, 2 (20-99); South Atlantic—Virginia, 1 (20-99); West Virginia, 2 (20-99); North Carolina, 1 (20-99); South Carolina, 5 (500-999); East South Central—Kentucky, 5 (1,000-2,499); Tennessee, 4 (250-499); Mississippi, 2 (1-19); Mountain—Colorado, 1 (20-99); New Mexico, 2 (1-19); Arizona, 1 (1-19); Pacific—Washington, 13 (100-249); Oregon, 12 (250-499).
- S.I.C. 2337 Pt. A, "Manufacturers:" New England—Massachusetts, 54 (1,000-2,499); Connecticut, 14 (500-999); East North Central—Indiana, 1 (20-99); Wisconsin, 3 (100-249); West North Central—Minnesota, 11 (500-999); Missouri, 33 (2,500-4,999); Nebraska, 2 (250-499); Kansas, 2 (20-99); South—Virginia, 1 (20-99); West Virginia, 1 (1-19); North Carolina, 1 (20-99); South Carolina, 3 (500-999); Georgia, 7 (100-249); Florida, 12 (100-249); Kentucky, 4 (1,000-2,499); Tennessee, 3 (250-499); Mississippi, 1 (1-19); West—Colorado, 1 (20-99); New Mexico, 1 (1-19); Arizona, 1 (1-19); Washington, 8 (100-249); Oregon, 10 (250-499).
- S.I.C. 2337, Pt. B, "Jobbers:" New England—Massachusetts, 32 (500-999); Connecticut, 1 (1-19); Middle Atlantic—Pennsylvania, 4 (1-19); East North Central—Illinois, 13 (20-99); Wisconsin, 1 (20-99); South—Maryland, 2 (100-249); Tennessee, 1 (1-19); Texas, 1 (1-19); West—New Mexico, 1 (1-19); Washington, 2 (1-19); Oregon, 1 (1-19).
- S.I.C. 2337, Pt. C, "Contractors:" New England—Rhode Island, 2 (20-99); Connecticut, 24 (1,000-2,499); East North Central—Ohio, 5 (20-99); Indiana, 3 (100-249); Illinois, 18 (250-499); Wisconsin, 5 (100-249); West North Central—Minnesota, 1 (1-19); Missouri, 7 (250-499); South—Maryland, 8 (500-999); West Virginia, 1 (20-99); South Carolina, 2 (250-499); Georgia, 3 (20-99); Florida, 1 (1-19); Kentucky, 1 (100-249); Mississippi, 1 (1-19); Texas, 7 (100-249); Pacific—Washington, 3 (20-99); Oregon, 1 (20-99).
- S.I.C. 2338, Women's Neckwear and Scarfs: Northeast and North Central—Massachusetts, 1 (1-19); Connecticut, 1 (1-19); New Jersey, 5 (100-249); Pennsylvania, 6 (20-99); Ohio, 1 (1-19); Illinois, 2 (1-19); South—Florida, 2 (1-19); Kentucky, 1 (20-99); Tennessee, 3 (20-99); Texas, 1 (1-19); Pacific—Washington, 1 (1-19); California, 7 (20-99).
- S.I.C. 2338, Pt. A, "Manufacturers:" Pacific—Washington, 1 (1-19); California, 7 (20-99); All Other States—Massachusetts, 1 (1-19); Connecticut, 1 (1-19); New York, 53 (500-999); New Jersey, 3 (100-249); Pennsylvania, 4 (1-19); Ohio, 1 (1-19); Illinois, 2 (1-19); Florida, 2 (1-19); Kentucky, 1 (20-99); Tennessee, 2 (20-99); Texas, 1 (1-19).
- S.I.C. 2338, Pt. B, "Jobbers:" All Other States—Pennsylvania, 1 (1-19); Alabama, 1 (1-19).
- S.I.C. 2338, Pt. C, "Contractors:" Middle Atlantic—New York, 29 (250-499); New Jersey, 2 (20-99); Pennsylvania, 1 (1-19).
- S.I.C. 2339, Women's Outerwear, N.E.C.: Northeast and North Central—New Hampshire, 3 (20-99); Rhode Island, 1 (20-99); New Jersey, 45 (1,000-2,499); Ohio, 4 (500-999); Indiana, 2 (100-249); Michigan, 2 (100-249); Michigan, 2 (1-19); Wisconsin, 1 (20-99); Minnesota, 3 (20-99); Iowa, 3 (250-499); Missouri, 11 (250-499); Nebraska, 1 (1-19); Kansas, 2 (100-249); South Atlantic—Delaware, 1 (1-19); Virginia, 3 (100-249); South Carolina, 3 (100-249); Georgia, 6 (100-249); East South Central—Tennessee, 1 (100-249); Alabama, 1 (1-19); Mississippi, 3 (500-999); West South Central—Louisiana, 2 (20-99); Oklahoma, 1 (1-19); Mountain—Colorado, 2 (20-99); New Mexico, 1 (1-19); Arizona, 3 (20-99); Utah, 1 (1-19); Pacific—Washington, 6 (500-999); Oregon, 3 (250-499).
- S.I.C. 2339, Pt. A, "Manufacturers:" Northeast and North Central—New Hampshire, 1 (20-99); New Jersey, 11 (250-499); Ohio, 4 (500-999); Indiana, 2 (100-249); Michigan, 2 (1-19); Wisconsin, 1 (20-99); Iowa, 3 (250-499); Missouri, 3 (20-99); Nebraska, 1 (1-19); Kansas, 1 (20-99); South—Maryland, 3 (100-249); Virginia, 1 (100-249); North Carolina, 4 (500-999); South Carolina, 1 (20-99); Georgia, 3 (20-99); Florida, 13 (500-999); Alabama, 1 (1-19); Louisiana, 1 (20-99); Oklahoma, 1 (1-19); Texas, 9 (500-999); Mountain—Colorado, 2 (20-99); New Mexico, 1 (1-19); Arizona, 3 (20-99); Utah, 1 (1-19); Pacific—Washington, 5 (500-999); California, 52 (3,321).
- S.I.C. 2339, Pt. B, "Jobbers:" Northeast and North Central—Massachusetts, 3 (1-19); New Jersey, 6 (20-99); Pennsylvania, 6 (100-249); Illinois, 4 (20-99); Minnesota, 1 (1-19); Missouri, 3 (20-99); South and West—Maryland, 1 (250-499); Virginia, 1 (1-19); Oregon, 1 (250-499); California, 11 (100-249).
- S.I.C. 2339, Pt. C, "Contractors:" Northeast and North Central—New Hampshire, 2 (20-99); Massachusetts, 32 (1,065); Rhode Island, 1 (20-99); New Jersey, 28 (500-999); Pennsylvania, 25 (1,552); Illinois, 3 (100-249); Minnesota, 2 (20-99); Missouri, 5 (100-249); Kansas, 1 (20-99); South and West—Delaware, 1 (1-19); Maryland, 2 (20-99); Virginia, 1 (20-99); North Carolina, 1 (20-99); South Carolina, 2 (20-99); Georgia, 3 (100-249); Florida, 2 (20-99); Tennessee, 1 (100-249); Mississippi, 3 (500-999); Texas, 6 (100-249); Washington, 1 (20-99); Oregon, 2 (20-99).

## WOMEN'S AND MISSES' OUTERWEAR

23C-11

Table 3.—DETAILED STATISTICS FOR THE UNITED STATES: 1954

(For explanation of line captions see Introduction)

Item	Blouses (S.I.C. 2331) all establishments			
	Total	"Manufacturers" (S.I.C. 2331 Pt. A)	"Jobbers" (S.I.C. 2331 Pt. B)	"Contractors" (S.I.C. 2331 Pt. C)
Primary product specialization ratio <sup>1</sup> .....	93	(NA)	(NA)	(NA)
Coverage ratio <sup>2</sup> .....	85	(NA)	(NA)	(NA)
Number of establishments, total.....	1,245	291	225	729
With 1-19 employees.....	545	151	165	229
With 20-99 employees.....	628	128	56	444
With 100 employees and over.....	72	12	4	56
All employees:				
Number (average for year).....	42,980	9,191	4,376	29,412
Payroll.....\$1,000..	99,818	23,488	18,311	58,018
Production workers:				
Number (average for year).....	39,567	8,257	2,704	28,605
Man-hours.....1,000..	67,901	14,787	4,268	48,845
Wages.....\$1,000..	82,201	18,766	7,992	55,441
Value added by manufacture.....do...	165,352	39,173	51,059	75,119
Cost of materials, etc.....do...	209,910	41,236	158,481	10,192
Value of shipments.....do...	375,262	80,408	209,541	85,312
Value added by resales.....do...	669	145	401	121
Cost of products bought and resold.....do...	1,422	441	739	241
Sales of products bought and resold.....do...	2,091	586	1,140	363
Total inventories, beginning of year.....do...	25,704	8,815	15,209	1,680
Total inventories, end of year.....do...	25,460	8,547	15,459	1,454
Capital expenditures, new.....do...	2,445	( <sup>3</sup> )	( <sup>3</sup> )	1,698
Number of employees for selected months:				
March.....	43,200	9,424	4,387	29,389
May.....	40,968	8,829	4,238	27,901
August.....	42,965	9,025	4,367	29,573
November.....	44,785	9,487	4,511	30,787
Cost of materials, fuel, electricity and contract work, total.....\$1,000..	209,910	41,236	158,481	10,192
Materials, parts, containers, and supplies consumed.....do...	141,370	37,531	98,859	5,241
Fuels consumed, total.....do...	261	(NA)	(NA)	(NA)
Electric energy:				
Purchased:				
Quantity.....million kwh..	22	5	9	8
Cost.....\$1,000..	574	127	202	245
Cost of contract work.....do...	67,705	3,578	59,420	4,706
Manufacturers' inventories:				
Beginning of year, total.....do...	25,704	8,815	15,209	1,680
Finished products.....do...	10,336	3,552	6,263	521
Work-in-process.....do...	5,688	1,765	3,435	( <sup>3</sup> )
Materials, supplies, fuel, etc.....do...	9,677	2,497	5,510	670
End of year, total.....do...	25,460	8,547	15,459	1,454
Finished products.....do...	10,425	3,425	6,523	( <sup>3</sup> )
Work-in-process.....do...	5,491	1,593	3,545	( <sup>3</sup> )
Materials, supplies, fuel, etc.....do...	9,541	3,528	5,390	623
Expenditures for plant and equipment, total.....do...	2,712	564	( <sup>3</sup> )	1,892
Capital expenditures, new.....do...	2,445	( <sup>3</sup> )	( <sup>3</sup> )	1,698
New structures and additions to plant.....do...	577	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
New machinery and equipment.....do...	1,886	( <sup>3</sup> )	( <sup>3</sup> )	1,317
Expenditures for used plant and equipment.....do...	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )

See footnotes at end of table.



## MANUFACTURES—INDUSTRY STATISTICS

Table 3.—DETAILED STATISTICS FOR THE UNITED STATES: 1954—Continued

Item	Dresses, unit-price (S.I.C. 2333) all establishments			
	Total	"Manufacturers" (S.I.C. 2333 Pt. A)	"Jobbers" (S.I.C. 2333 Pt. B)	"Contractors" (S.I.C. 2333 Pt. C)
Primary product specialization ratio <sup>1</sup> .....	96	(NA)	(NA)	(NA)
Coverage ratio <sup>2</sup> .....	95	(NA)	(NA)	(NA)
Number of establishments, total.....	4,114	1,109	650	2,355
With 1-19 employees.....	1,612	554	387	671
With 20-99 employees.....	2,318	475	243	1,600
With 100 employees and over.....	184	80	20	84
All employees:				
Number (average for year).....	143,278	41,734	17,023	84,521
Payroll.....\$1,000..	418,577	138,443	80,332	199,802
Production workers:				
Number (average for year).....	129,527	36,364	11,119	82,043
Man-hours.....1,000..	219,314	65,010	19,366	134,937
Wages.....\$1,000..	334,819	104,769	40,767	189,282
Value added by manufacture.....do...	661,292	223,088	193,415	244,789
Cost of materials, etc.....do...	793,788	224,046	552,684	17,058
Value of shipments.....do...	1,455,080	447,134	746,098	261,847
Value added by resales.....do...	1,426	885	420	120
Cost of products bought and resold.....do...	7,924	5,300	1,958	665
Sales of products bought and resold.....do...	9,350	6,185	2,378	786
Total inventories, beginning of year.....do...	83,665	34,041	47,139	2,486
Total inventories, end of year.....do...	82,307	32,028	47,925	2,354
Capital expenditures, new.....do...	5,069	1,870	1,316	1,882
Number of employees for selected months:				
March.....	146,115	42,970	17,206	85,939
May.....	144,912	41,128	17,379	86,405
August.....	140,009	41,273	16,632	82,104
November.....	142,079	41,566	16,876	83,637
Cost of materials, fuel, electricity and contract work, total.....\$1,000..	793,788	224,046	552,684	17,058
Materials, parts, containers, and supplies consumed.....do...	533,809	193,683	329,989	10,337
Fuels consumed, total.....do...	199	(NA)	(NA)	(NA)
Electric energy:				
Purchased:				
Quantity.....million kwh..	102	33	42	27
Cost.....\$1,000..	2,289	772	974	543
Cost of contract work.....do...	257,491	29,591	221,721	6,178
Manufacturers' inventories:				
Beginning of year, total.....do...	83,665	34,041	47,139	2,486
Finished products.....do...	27,168	10,719	15,821	628
Work-in-process.....do...	19,362	7,417	11,362	583
Materials, supplies, fuel, etc.....do...	37,135	15,904	19,956	1,275
End of year, total.....do...	82,307	32,028	47,925	2,354
Finished products.....do...	26,177	10,119	15,476	582
Work-in-process.....do...	19,823	6,982	12,273	568
Materials, supplies, fuel, etc.....do...	36,304	14,926	20,175	1,203
Expenditures for plant and equipment, total.....do...	5,778	2,019	1,484	2,275
Capital expenditures, new.....do...	5,069	1,870	1,316	1,882
New structures and additions to plant.....do...	1,202	515	( <sup>3</sup> )	( <sup>3</sup> )
New machinery and equipment.....do...	3,865	1,367	989	1,519
Expenditures for used plant and equipment.....do...	698	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )

See footnotes at end of table.

## WOMEN'S AND MISSES' OUTERWEAR

23C-13

Table 3.—DETAILED STATISTICS FOR THE UNITED STATES: 1954—Continued

Item	Dresses, dozen price (S.I.C. 2334) all establishments			
	Total	"Manufacturers" (S.I.C. 2334 Pt. A)	"Jobbers" (S.I.C. 2334 Pt. B)	"Contractors" (S.I.C. 2334 Pt. C)
Primary product specialization ratio <sup>1</sup> .....	94	(NA)	(NA)	(NA)
Coverage ratio <sup>2</sup> .....	96	(NA)	(NA)	(NA)
Number of establishments, total.....	892	441	68	383
With 1-19 employees.....	359	210	36	113
With 20-99 employees.....	383	148	21	214
With 100 employees and over.....	150	83	11	56
All employees:				
Number (average for year).....	54,507	26,719	4,059	23,729
Payroll.....\$1,000..	127,276	66,983	14,307	45,986
Production workers:				
Number (average for year).....	49,442	23,465	3,107	22,868
Man-hours.....1,000..	90,092	42,694	5,957	41,440
Wages.....\$1,000..	100,137	48,962	8,424	42,750
Value added by manufacture.....do...	205,070	113,838	35,821	55,410
Cost of materials, etc.....do...	230,146	119,163	107,007	3,974
Value of shipments.....do...	435,216	233,002	142,829	59,385
Value added by resales.....do...	4,148	3,733	286	128
Cost of products bought and resold.....do...	8,042	5,849	2,015	177
Sales of products bought and resold.....do...	12,191	9,583	2,302	305
Total inventories, beginning of year.....do...	57,909	36,929	19,803	1,177
Total inventories, end of year.....do...	53,182	34,571	17,524	1,087
Capital expenditures, new.....do...	2,366	1,094	( <sup>3</sup> )	874
Number of employees for selected months:				
March.....	55,737	27,681	4,231	23,825
May.....	55,730	27,207	4,259	24,264
August.....	52,823	25,807	3,902	23,114
November.....	53,739	26,183	3,843	23,713
Cost of materials, fuel, electricity and contract work, total.....\$1,000..	230,146	119,163	107,007	3,974
Materials, parts, containers, and supplies consumed.....do...	183,556	110,039	70,401	3,114
Fuels consumed, total.....do...	47	(NA)	(NA)	(NA)
Electric energy:				
Purchased:				
Quantity.....million kwh..	48	28	5	15
Cost.....\$1,000..	866	480	120	266
Cost of contract work.....do...	45,677	8,597	36,486	594
Manufacturers' inventories:				
Beginning of year, total.....do...	57,909	36,929	19,803	1,177
Finished products.....do...	18,224	12,015	5,918	( <sup>3</sup> )
Work-in-process.....do...	11,784	6,865	4,520	( <sup>3</sup> )
Materials, supplies, fuel, etc.....do...	27,898	18,048	9,363	( <sup>3</sup> )
End of year, total.....do...	53,182	34,571	17,524	1,087
Finished products.....do...	17,556	11,935	5,326	( <sup>3</sup> )
Work-in-process.....do...	10,904	6,326	4,197	( <sup>3</sup> )
Materials, supplies, fuel, etc.....do...	24,721	16,310	8,000	( <sup>3</sup> )
Expenditures for plant and equipment, total.....do...	2,438	1,130	( <sup>3</sup> )	896
Capital expenditures, new.....do...	2,366	1,094	( <sup>3</sup> )	874
New structures and additions to plant.....do...	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
New machinery and equipment.....do...	1,988	981	( <sup>3</sup> )	685
Expenditures for used plant and equipment.....do...	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )

See footnotes at end of table.

## MANUFACTURES--INDUSTRY STATISTICS

Table 3.—DETAILED STATISTICS FOR THE UNITED STATES: 1954—Continued

Item	Women's suits, coats, and skirts (S.I.C. 2337) all establishments			
	Total	"Manufacturers" (S.I.C. 2337 Pt. A)	"Jobbers" (S.I.C. 2337 Pt. B)	"Contractors" (S.I.C. 2337 Pt. C)
Primary product specialization ratio <sup>1</sup> .....	94	(NA)	(NA)	(NA)
Coverage ratio <sup>2</sup> .....	93	(NA)	(NA)	(NA)
Number of establishments, total.....	3,204	1,154	590	1,460
With 1-19 employees.....	1,728	607	451	670
With 20-99 employees.....	1,331	469	131	731
With 100 employees and over.....	145	78	8	59
All employees:				
Number (average for year).....	96,022	41,158	9,835	45,029
Payroll.....\$1,000..	326,933	151,076	50,603	125,253
Production workers:				
Number (average for year).....	84,410	35,432	5,540	43,436
Man-hours.....1,000..	147,479	63,858	9,768	73,852
Wages.....\$1,000..	252,312	112,726	21,618	117,967
Value added by manufacture.....do...	529,623	246,896	128,620	154,106
Cost of materials, etc.....do...	731,697	288,566	423,947	19,183
Value of shipments.....do...	1,261,320	535,460	552,570	173,289
Value added by resales.....do...	2,573	1,628	526	418
Cost of products bought and resold.....do...	8,137	5,424	1,540	1,172
Sales of products bought and resold.....do...	10,710	7,052	2,067	1,591
Total inventories, beginning of year.....do...	111,664	60,086	48,420	3,158
Total inventories, end of year.....do...	106,864	55,337	48,679	2,848
Capital expenditures, new.....do...	3,621	1,521	753	1,347
Number of employees for selected months:				
March.....	105,391	44,173	9,867	51,351
May.....	71,935	32,952	9,122	29,861
August.....	108,049	45,502	10,111	52,436
November.....	98,713	42,003	10,241	46,469
Cost of materials, fuel, electricity and contract work, total.....\$1,000..	731,697	288,566	423,947	19,183
Materials, parts, containers, and supplies consumed.....do...	558,928	263,253	282,947	14,433
Fuels consumed, total.....do...	877	(NA)	(NA)	(NA)
Electric energy:				
Purchased:				
Quantity.....million kwh..	71	23	38	10
Cost.....\$1,000..	2,195	945	890	360
Cost of contract work.....do...	169,697	24,368	140,937	4,390
Manufacturers' inventories:				
Beginning of year, total.....do...	111,664	60,086	48,420	3,158
Finished products.....do...	38,449	20,115	17,428	906
Work-in-process.....do...	20,004	10,451	8,764	789
Materials, supplies, fuel, etc.....do...	53,209	29,519	22,227	1,463
End of year, total.....do...	106,864	55,337	48,679	2,848
Finished products.....do...	38,438	19,450	18,198	790
Work-in-process.....do...	19,393	9,620	9,024	749
Materials, supplies, fuel, etc.....do...	49,030	26,266	21,456	1,308
Expenditures for plant and equipment, total.....do...	4,338	1,651	841	1,846
Capital expenditures, new.....do...	3,621	1,521	753	1,347
New structures and additions to plant.....do...	738	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
New machinery and equipment.....do...	2,880	1,213	532	1,149
Expenditures for used plant and equipment.....do...	703	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )

See footnotes at end of table.



## WOMEN'S AND MISSES' OUTERWEAR

23C-15

Table 3.—DETAILED STATISTICS FOR THE UNITED STATES: 1954—Continued

Item	Women's neckwear and scarfs (S.I.C. 2338) all establishments			
	Total	"Manufacturers" (S.I.C. 2338 Pt. A)	"Jobbers" (S.I.C. 2338 Pt. B)	"Contractors" (S.I.C. 2338 Pt. C)
Primary product specialization ratio <sup>1</sup> .....	95	(NA)	(NA)	(NA)
Coverage ratio <sup>2</sup> .....	75	(NA)	(NA)	(NA)
Number of establishments, total.....	133	79	22	32
With 1-19 employees.....	109	67	17	25
With 20-99 employees.....	23	12	4	7
With 100 employees and over.....	1	...	1	...
All employees:				
Number (average for year).....	1,745	1,011	333	401
Payroll.....\$1,000..	6,189	2,927	2,391	871
Production workers:				
Number (average for year).....	1,457	842	223	391
Man-hours.....1,000..	2,434	1,320	394	720
Wages.....\$1,000..	3,561	1,683	1,059	818
Value added by manufacture.....do...	9,676	4,237	4,188	1,251
Cost of materials, etc.....do...	16,620	6,054	10,154	411
Value of shipments.....do...	26,297	10,291	14,343	1,662
Value added by resales.....do...	2,759	1,112	1,608	39
Cost of products bought and resold.....do...	8,958	3,281	5,615	61
Sales of products bought and resold.....do...	11,718	4,394	7,223	100
Total inventories, beginning of year.....do...	4,496	1,869	2,570	( <sup>3</sup> )
Total inventories, end of year.....do...	3,942	1,811	2,077	( <sup>3</sup> )
Capital expenditures, new.....do...	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
Number of employees for selected months:				
March.....	1,805	1,097	330	378
May.....	1,468	915	305	248
August.....	1,764	982	319	463
November.....	1,944	1,053	378	513
Cost of materials, fuel, electricity and contract work, total.....\$1,000..	16,620	6,054	10,154	411
Materials, parts, containers, and supplies consumed.....do...	13,786	5,488	7,920	378
Fuels consumed, total.....do...	5	(NA)	(NA)	(NA)
Electric energy:				
Purchased:				
Quantity.....million kwh..	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
Cost.....\$1,000..	21	13	8	( <sup>5</sup> )
Cost of contract work.....do...	2,808	553	2,221	33
Manufacturers' inventories:				
Beginning of year, total.....do...	4,496	1,869	2,570	( <sup>3</sup> )
Finished products.....do...	3,139	1,003	2,117	( <sup>3</sup> )
Work-in-process.....do...	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
Materials, supplies, fuel, etc.....do...	861	573	( <sup>3</sup> )	( <sup>3</sup> )
End of year, total.....do...	3,942	1,811	2,077	( <sup>3</sup> )
Finished products.....do...	2,831	979	1,836	( <sup>3</sup> )
Work-in-process.....do...	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
Materials, supplies, fuel, etc.....do...	719	525	( <sup>3</sup> )	( <sup>3</sup> )
Expenditures for plant and equipment, total.....do...	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
Capital expenditures, new.....do...	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
New structures and additions to plant.....do...	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
New machinery and equipment.....do...	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
Expenditures for used plant and equipment.....do...	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )

See footnotes at end of table.

## MANUFACTURES—INDUSTRY STATISTICS

Table 3.—DETAILED STATISTICS FOR THE UNITED STATES: 1954—Continued

Item	Women's outerwear, n.e.c. (S.I.C. 2339) all establishments			
	Total	"Manufacturers" (S.I.C. 2339 Pt. A)	"Jobbers" (S.I.C. 2339 Pt. B)	"Contractors" (S.I.C. 2339 Pt. C)
Primary product specialization ratio <sup>1</sup> .....	82	(NA)	(NA)	(NA)
Coverage ratio <sup>2</sup> .....	44	(NA)	(NA)	(NA)
Number of establishments, total.....	710	278	106	326
With 1-19 employees.....	358	144	84	130
With 20-99 employees.....	311	114	19	178
With 100 employees and over.....	41	20	3	18
All employees:				
Number (average for year).....	25,361	11,886	2,083	11,391
Payroll.....\$1,000..	67,324	34,317	8,236	24,771
Production workers:				
Number (average for year).....	22,637	10,429	1,284	10,923
Man-hours.....1,000..	42,147	20,945	2,427	18,774
Wages.....\$1,000..	51,503	25,168	3,614	22,720
Value added by manufacture.....do....	115,046	60,223	22,163	32,659
Cost of materials, etc.....do....	137,028	65,552	66,531	4,944
Value of shipments.....do....	252,074	125,775	88,695	37,603
Value added by resales.....do....	2,861	2,567	289	5
Cost of products bought and resold.....do....	8,698	7,346	1,344	8
Sales of products bought and resold.....do....	11,559	9,913	1,633	13
Total inventories, beginning of year.....do....	37,680	24,458	11,680	1,542
Total inventories, end of year.....do....	36,120	24,158	10,653	1,309
Capital expenditures, new.....do....	1,905	1,032	( <sup>3</sup> )	731
Number of employees for selected months:				
March.....	27,723	13,357	2,194	12,172
May.....	25,815	12,541	2,111	11,163
August.....	22,212	9,885	1,964	10,363
November.....	25,697	11,765	2,064	11,868
Cost of materials, fuel, electricity and contract work, total.....\$1,000..	137,028	65,552	66,531	4,944
Materials, parts, containers, and supplies consumed.....do....	106,694	60,358	42,459	3,935
Fuels consumed, total.....do....	59	(NA)	(NA)	(NA)
Electric energy:				
Purchased:				
Quantity.....million kwh..	16	7	7	2
Cost.....\$1,000..	455	196	159	100
Cost of contract work.....do....	29,820	4,998	23,913	909
Manufacturers' inventories:				
Beginning of year, total.....do....	37,680	24,458	11,680	1,542
Finished products.....do....	18,764	12,131	6,167	( <sup>3</sup> )
Work-in-process.....do....	7,085	4,199	2,297	589
Materials, supplies, fuel, etc.....do....	11,828	8,127	3,215	( <sup>3</sup> )
End of year, total.....do....	36,120	24,158	10,653	1,309
Finished products.....do....	18,609	12,680	5,532	( <sup>3</sup> )
Work-in-process.....do....	6,334	3,757	2,060	517
Materials, supplies, fuel, etc.....do....	11,173	7,720	3,060	( <sup>3</sup> )
Expenditures for plant and equipment, total.....do....	2,208	1,215	( <sup>3</sup> )	839
Capital expenditures, new.....do....	1,905	1,032	( <sup>3</sup> )	731
New structures and additions to plant.....do....	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
New machinery and equipment.....do....	1,505	797	( <sup>3</sup> )	584
Expenditures for used plant and equipment.....do....	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )

Note: Detailed figures may not add to the totals because of independent rounding.

xxx Not applicable.

NA Not available.

<sup>1</sup>The specialization ratio compares the given industry's shipments of its primary products to its total shipments of all products. (The primary products are listed in Tables 5B and 6A; the first 4-digits of the product code represent the industry code to which the product is primary.) Columns containing totals for establishments with 90% or more primary product specialization are shown only for those industries having a primary product specialization of less than 90%; for this group of industries, Industry 2339 is the only such industry. However, plant specialization data are shown only for "manufacturers" and "jobbers" in Industry 2339 and not for the industry as a whole because specialization ratios for contractors were not computed. Such ratios would not be meaningful since they could relate to only a minor portion of the contractors' total activity, that is, production on own account from materials owned by them, and would not be representative of the activity of the establishments as a whole.

<sup>2</sup>The coverage ratio measures the extent to which the total shipments of products primary to the given industry are shipped by establishments classified in that industry.

<sup>3</sup>Less than \$500 thousand.

<sup>4</sup>Less than 500 thousand kwh.

<sup>5</sup>Less than \$500.

Table 4.—SELECTED STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR THE UNITED STATES: 1954

(Value figures in thousands of dollars. For explanation of line captions see Introduction. Data which cannot be shown without disclosing information for individual companies have been combined with figures for other size classes. A (D) appears in the column where the figure has been omitted and the combined figure is underlined and shown in the size-class to the left)

Ind. code	Industry and item	Total, all establishments	Establishments with an average of—									
			1-4 employees	5-9 employees	10-19 employees	20-49 employees	50-99 employees	100-249 employees	250-499 employees	500-999 employees	1,000-2,499 employees	2,500 employees and over
2331	Blouses:											
	Number of establishments..	1,245	143	145	257	440	188	66	6	...	...	...
	Number of employees.....	42,980	381	1,078	3,816	14,294	12,485	8,938	1,986	...	...	...
	Value added by manufacture	165,352	3,679	8,141	17,813	50,965	49,115	27,354	8,283	...	...	...
2331 Pt.A	"Manufacturers:"											
	Number of establishments..	291	49	43	59	81	47	11	1	...	...	...
	Number of employees.....	9,191	116	299	823	2,723	3,220	2,007	(D)	...	...	...
	Value added by manufacture	39,173	457	1,306	3,200	10,942	14,674	<u>8,590</u>	(D)	...	...	...
2331 Pt.B	"Jobbers:"											
	Number of establishments..	225	59	59	47	40	16	3	1	...	...	...
	Number of employees.....	4,376	181	447	638	1,279	1,059	769	(D)	...	...	...
	Value added by manufacture	51,059	2,822	5,929	8,971	14,356	13,497	<u>5,481</u>	(D)	...	...	...
2331 Pt.C	"Contractors:"											
	Number of establishments..	729	35	43	151	319	125	52	4	...	...	...
	Number of employees.....	29,412	83	331	2,354	10,291	8,205	<u>8,147</u>	(D)	...	...	...
	Value added by manufacture	75,119	398	905	5,641	25,666	20,943	<u>21,565</u>	(D)	...	...	...
2333	Dresses, unit price:											
	Number of establishments..	4,114	393	414	805	1,703	615	162	19	3	...	...
	Number of employees.....	143,278	985	3,110	12,112	55,485	41,107	22,610	<u>7,867</u>	(D)	...	...
	Value added by manufacture	661,292	8,554	21,217	66,837	230,892	184,017	110,105	<u>39,668</u>	(D)	...	...
2333 Pt.A	"Manufacturers:"											
	Number of establishments..	1,109	202	144	208	307	168	62	15	3	...	...
	Number of employees.....	41,734	416	1,041	3,077	10,168	11,396	9,224	<u>6,409</u>	(D)	...	...
	Value added by manufacture	223,088	2,041	5,382	15,141	53,773	65,341	48,142	<u>33,265</u>	(D)	...	...
2333 Pt.B	"Jobbers:"											
	Number of establishments..	650	109	113	165	172	71	18	2	...	...	...
	Number of employees.....	17,023	334	846	2,392	5,348	4,835	<u>3,267</u>	(D)	...	...	...
	Value added by manufacture	193,415	5,530	11,996	32,378	58,631	46,920	<u>37,957</u>	(D)	...	...	...
2333 Pt.C	"Contractors:"											
	Number of establishments..	2,355	82	157	432	1,224	376	82	2	...	...	...
	Number of employees.....	84,521	233	1,222	6,642	39,969	24,876	<u>11,577</u>	(D)	...	...	...
	Value added by manufacture	244,789	981	3,838	19,317	118,487	71,756	<u>30,407</u>	(D)	...	...	...
2334	Dresses, dozen price:											
	Number of establishments..	892	135	106	118	226	157	113	28	9	...	...
	Number of employees.....	54,507	307	764	1,724	7,451	11,225	17,122	10,204	5,708	...	...
	Value added by manufacture	205,070	1,518	3,985	8,380	26,774	38,073	67,473	33,387	25,477	...	...
2334 Pt.A	"Manufacturers:"											
	Number of establishments..	441	95	59	56	86	62	65	13	5	...	...
	Number of employees.....	26,718	208	421	822	2,809	4,618	9,950	4,748	3,140	...	...
	Value added by manufacture	113,838	657	1,444	2,875	12,773	20,034	42,466	20,073	13,513	...	...
2334 Pt.B	"Jobbers:"											
	Number of establishments..	68	13	14	9	12	9	8	1	2	...	...
	Number of employees.....	4,059	31	103	124	376	605	1,317	<u>1,501</u>	(D)	...	...
	Value added by manufacture	35,821	696	1,848	3,467	4,025	4,196	10,310	<u>11,275</u>	(D)	...	...
2334 Pt.C	"Contractors:"											
	Number of establishments..	383	27	33	53	128	86	40	14	2	...	...
	Number of employees.....	23,729	67	238	778	4,266	6,001	5,855	<u>6,523</u>	(D)	...	...
	Value added by manufacture	55,410	165	691	2,037	9,974	13,842	14,696	<u>14,002</u>	(D)	...	...
2337	Women's suits, coats, & skirts:											
	Number of establishments..	3,204	539	470	719	968	363	122	21	2	...	...
	Number of employees.....	96,022	1,449	3,412	10,536	30,752	24,590	16,784	<u>8,496</u>	(D)	...	...
	Value added by manufacture	529,623	12,501	26,488	62,180	159,944	137,300	90,144	<u>41,063</u>	(D)	...	...
2337 Pt.A	"Manufacturers:"											
	Number of establishments..	1,154	226	173	208	318	151	58	18	2	...	...
	Number of employees.....	41,158	541	1,223	3,020	10,276	10,263	8,147	<u>7,686</u>	(D)	...	...
	Value added by manufacture	246,896	3,144	8,221	18,019	64,280	63,924	50,461	<u>38,842</u>	(D)	...	...
2337 Pt.B	"Jobbers:"											
	Number of establishments..	590	192	150	109	89	42	8	...	...	...	...
	Number of employees.....	9,835	554	1,068	1,529	2,750	2,790	1,143	...	...	...	...
	Value added by manufacture	128,620	7,814	14,743	23,941	34,884	32,594	14,642	...	...	...	...
2337 Pt.C	"Contractors:"											
	Number of establishments..	1,460	121	147	402	561	170	56	3	...	...	...
	Number of employees.....	45,028	353	1,120	5,987	17,726	11,535	7,494	810	...	...	...
	Value added by manufacture	156,106	1,542	3,523	20,219	60,777	40,781	25,041	2,221	...	...	...



Table 4.—SELECTED STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR THE UNITED STATES: 1954—Continued

Ind. code	Industry and item	Total, all estab-lish-ments	Establishments with an average of—									
			1-4 em-employees	5-9 em-employees	10-19 em-employees	20-49 em-employees	50-99 em-employees	100-249 employees	250-499 employees	500-999 employees	1,000-2,499 employees	2,500 employees and over
2332	Women's neckwear and scarfs:											
	Number of establishments..	133	51	28	30	18	5	1	...	...	...	...
	Number of employees.....	1,745	112	204	419	530	478	(D)	...	...	...	...
	Value added by manufacture	9,676	776	885	1,863	2,572	<u>3,578</u>	(D)	...	...	...	...
2338	"Manufacturers:"											
Pt.A	Number of establishments..	79	31	19	17	7	5	...	...	...	...	...
	Number of employees.....	1,011	66	139	245	559	(D)	...	...	...	...	...
	Value added by manufacture	4,237	277	733	1,081	<u>2,144</u>	(D)	...	...	...	...	...
2338	"Jobbers:"											
Pt.B	Number of establishments..	22	11	1	5	4	...	1	...	...	...	...
	Number of employees.....	333	33	(D)	61	237	...	(D)	...	...	...	...
	Value added by manufacture	4,188	<u>439</u>	(D)	485	<u>3,261</u>	...	(D)	...	...	...	...
2338	"Contractors:"											
Pt.C	Number of establishments..	32	9	8	8	7	...	...	...	...	...	...
	Number of employees.....	401	<u>77</u>	(D)	112	211	...	...	...	...	...	...
	Value added by manufacture	1,251	<u>210</u>	(D)	296	744	...	...	...	...	...	...
2339	Women's outerwear, n.e.c.:											
	Number of establishments..	710	124	107	127	222	89	28	11	2	...	...
	Number of employees.....	25,361	283	772	1,851	7,173	6,003	3,955	<u>5,322</u>	(D)	...	...
	Value added by manufacture	115,046	2,898	5,627	8,435	27,131	23,776	13,935	<u>33,242</u>	(D)	...	...
2339	"Manufacturers:"											
Pt.A	Number of establishments..	278	55	45	44	73	41	11	7	2	...	...
	Number of employees.....	11,886	103	314	631	2,453	2,824	1,448	<u>4,110</u>	(D)	...	...
	Value added by manufacture	60,223	824	1,723	2,858	10,730	12,616	5,710	<u>25,759</u>	(D)	...	...
2339	"Jobbers:"											
Pt.B	Number of establishments..	106	37	25	22	14	5	1	2	...	...	...
	Number of employees.....	2,083	98	178	302	451	303	749	(D)	...	...	...
	Value added by manufacture	22,163	1,376	3,136	3,109	5,390	2,501	<u>6,648</u>	(D)	...	...	...
2339	"Contractors:"											
Pt.C	Number of establishments..	326	32	37	61	135	43	16	2	...	...	...
	Number of employees.....	11,391	81	279	916	4,269	2,875	<u>2,969</u>	(D)	...	...	...
	Value added by manufacture	32,659	697	767	2,467	11,010	8,659	<u>9,058</u>	(D)	...	...	...

Note: Detailed figures do not add to the totals because of independent rounding.

Table 5A.—INDUSTRY-PRODUCT ANALYSIS—SUMMARY OF INDUSTRY AND PRIMARY PRODUCT SHIPMENTS, SPECIALIZATION RATIOS AND COVERAGE RATIOS FOR THE UNITED STATES: 1954 AND 1947

Industry code	Industry and census year	Value of shipments					Value of primary products shipped				
		Total	Primary products	Secondary products	Miscellaneous receipts	Primary product specialization ratio <sup>1</sup> Col. B Col. B+C (Percent)	Total (made in all industries)	Made in this industry	Made in other industries	Coverage ratio <sup>2</sup> Col. G Col. F (Percent)	
(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(E)	(F)	(G)	(H)	(I)			
(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)			
2331	Blouses.....1954..	375,262	268,580	19,075	87,607	93	315,658	268,580	47,078	85	
	1947..	276,575	209,118	15,131	52,326	93	237,840	209,118	28,722	88	
2333	Dresses, unit price.....1954..	1,455,371	1,148,267	53,631	253,473	96	1,208,435	1,148,267	60,168	95	
	1947..	1,359,030	1,068,240	58,754	232,036	95	1,097,551	1,068,240	29,311	97	
2334	Dresses, dozen price.....1954..	435,216	354,308	21,878	59,030	94	367,731	354,308	13,423	96	
	1947..	348,785	281,637	33,897	33,251	89	294,048	281,637	12,411	96	
2337	Women's suits, coats and skirts.....1954..	1,260,765	1,026,198	63,948	170,619	94	1,101,371	1,026,198	75,173	93	
	1947..	1,092,807	888,873	47,494	156,440	95	955,070	888,873	66,197	93	
2338	Women's neckwear and scarfs.....1954..	26,297	23,263	1,290	1,744	95	31,186	23,263	7,923	75	
	1947..	51,061	46,767	2,092	2,202	96	48,552	46,767	1,785	96	
2339	Women's outerwear, n.e.c.....1954..	252,074	175,023	38,318	38,733	82	395,050	175,023	(3)	44	
	1947..	97,203	59,789	25,998	11,416	70	180,562	59,789	120,773	33	

<sup>1</sup>The specialization ratio compares the given industry's shipments of its primary products to its total shipments of all products. (The primary products are listed in Tables 5B and 6A; the first 4-digits of the product code represent the industry code to which the product is primary.)<sup>2</sup>The coverage ratio measures the extent to which the total shipments of products primary to the given industry are shipped by establishments classified in that industry. <sup>3</sup>Includes women's outerwear, n.e.c., made in knitting mills.

## WOMEN'S AND MISSES' OUTERWEAR

Table 5B.—INDUSTRY-PRODUCT ANALYSIS—SHIPMENTS BY PRODUCT CLASS AND INDUSTRY, FOR THE UNITED STATES: 1954

(In thousands of dollars. Each column shows, for the industry listed in the column heading, the value of shipments divided among women's and misses' outerwear, other products, and miscellaneous receipts. Each figure represents the amount of the product class shown at the left shipped by the industry listed at the top of the column. The first four digits of the product class codes at the left represent the codes of the industries to which they are primary. However, parts of product classes 22531, 22532, and 22533 are also primary to Industry 2339. All other product classes in a column represent products secondary to the specified industry.)

Prod. class code	Class products and miscellaneous receipts	Blouses (S.I.C. 2331)	Dresses unit price (S.I.C. 2333)	Dresses, dozen price (S.I.C. 2334)	Women's suits, coats, and skirts (S.I.C. 2337)	Women's neckwear and scarfs (S.I.C. 2338)	Women's outerwear, n.e.c. (S.I.C. 2339)	Knit outerwear mills (S.I.C. 2253)	Other industries	All industries
	Total shipments of the industry.....	375,262	1,455,371	435,216	1,260,765	26,297	252,074	xxx	xxx	xxx
233-225 pt	Women's and misses' outerwear.....	282,893	1,199,617	364,840	1,080,210	23,356	191,405	215,657	61,453	3,419,431
23310	Women's, misses' and juniors' blouses.....	268,580	11,173	1,765	23,152	( <sup>1</sup> )	3,869	...	<sup>2</sup> 7,091	315,658
23330	Women's, misses' and juniors' unit-price dresses.....	1,590	1,148,267	3,890	14,765	...	1,406	37,250	1,267	1,208,435
23341	Women's, misses' and juniors' dozen-price dresses.....	1,501	592	290,843	2,020	...	374	...	1,459	296,789
23342	Women's and misses' washable service apparel. ( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	49,396	( <sup>1</sup> )	( <sup>1</sup> )	159	...	<sup>3</sup> 6,972	56,602
23340	Dresses, not specified by kind.....	...	...	14,069	( <sup>1</sup> )	...	...	...	238	14,340
23371	Women's, misses', and juniors' coats, except fur.....	...	4,223	200	502,650	...	566	( <sup>1</sup> )	1,691	509,390
23372	Women's, misses', and juniors' suits.....	361	15,649	821	225,233	( <sup>1</sup> )	39	...	3,471	245,581
23373	Women's, misses', and juniors' jackets.....	( <sup>-</sup> )	467	123	18,343	...	4,559	( <sup>1</sup> )	<sup>4</sup> 3,479	27,066
23374	Women's, misses', and juniors' skirts.....	8,378	14,816	2,631	206,593	...	5,300	223	7,763	245,704
23370	Women's, suits, coats and skirts, not specified by kind.....	( <sup>1</sup> )	( <sup>1</sup> )	...	73,379	...	( <sup>1</sup> )	...	( <sup>1</sup> )	73,630
23380	Women's, misses' and juniors' neckwear.....	832	...	( <sup>1</sup> )	23,263	( <sup>1</sup> )	5,194	1,783	1,783	31,186
23390	Women's, misses' and juniors' outerwear, n.e.c.....	1,127	2,589	1,076	11,972	( <sup>1</sup> )	101,139	( <sup>1</sup> )	<sup>5</sup> 26,238	144,240
22531 pt	Women's, misses' and juniors' sweaters, knit jackets and jerseys.....	<sup>6</sup> 264	<sup>6</sup> 1,361	...	<sup>6</sup> 333	( <sup>7</sup> )	12,108	<sup>8</sup> 166,397	( <sup>7</sup> )	180,473
22532 pt	Women's, misses' and juniors' knit outerwear sport shirts.....	( <sup>1</sup> )	( <sup>1</sup> )	...	<sup>6</sup> 310	( <sup>7</sup> )	15,399	<sup>8</sup> 6,491	( <sup>7</sup> )	22,332
22533 pt	Women's, misses' and juniors' swimwear.....	( <sup>1</sup> )	<sup>6</sup> 228	...	<sup>6</sup> 1,375	...	<sup>8</sup> 46,377	( <sup>9</sup> )	( <sup>9</sup> )	48,005
	Other products.....	4,762	2,281	11,346	9,936	1,197	21,936	xxx	xxx	xxx
23291	Men's and boys' work clothing, except work shirts.....	...	...	4,586	( <sup>1</sup> )	...	2,425	xxx	xxx	xxx
23630	Girls', children's, and infants' coats.....	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>-</sup> )	5,762	...	1,805	xxx	xxx	xxx
23690	Children's outerwear, n.e.c.....	813	153	104	948	339	6,366	xxx	xxx	xxx
	Other secondary products.....	3,861	2,115	6,641	3,216	858	11,340	xxx	xxx	xxx
	Miscellaneous receipts.....	87,607	253,473	59,030	170,619	1,744	38,733	xxx	xxx	xxx
	Contract and commission work.....	87,575	253,356	58,865	169,883	1,744	38,598	xxx	xxx	xxx
	Other.....	( <sup>1</sup> )	117	165	736	xxx	135	xxx	xxx	xxx

xxx Not applicable.

<sup>1</sup>Less than \$100 thousand.<sup>2</sup>Includes \$4,250 thousand shipped by plants in Industry 2321, Men's Dress Shirts and Nightwear.<sup>3</sup>Includes \$4,694 thousand shipped by plants in Industry 2329, Men's and Boys' Clothing, n.e.c.<sup>4</sup>Includes \$2,252 thousand shipped by plants in Industry 2329, Men's and Boys' Clothing, n.e.c.<sup>5</sup>Includes \$5,562 thousand shipped by plants in Industry 2369, Children's Outerwear, n.e.c.; and \$16,108 thousand shipped by plants in Industry 2329, Men's and Boys' Clothing, n.e.c.<sup>6</sup>Includes a negligible amount of men's, boys' and children's garments.<sup>7</sup>Included in knit outerwear mills industry (2253).<sup>8</sup>Excludes negligible amount of women's, misses' and juniors' garments.<sup>9</sup>Included in the women's outerwear, n.e.c. industry (2339).

## MANUFACTURES—INDUSTRY STATISTICS

Table 6A.—QUANTITY AND VALUE OF PRODUCTS SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, FOR THE UNITED STATES: 1954 AND 1947

Product code	Product	Garments cut				
		1954			1947	
		Total		Cuttings of garments on contract (quantity) <sup>1</sup>	Quantity	Sales value
		Quantity	Sales value			
2331---	Women's, misses', and juniors' blouses, total.....	(1,000 dozen) xxx	(\$1,000) 315,658	(1,000 dozen) xxx	(1,000 dozen) xxx	(\$1,000) 237,840
	Blouse, blousesettes, waists, and shirts: <sup>2</sup>					
2331011	Quantity reported.....	12,686	299,205	5,623	7,446	237,840
2331000	Quantity not reported.....	xxx	16,453	xxx	xxx	xxx
2333---	Women's, misses', and juniors' dresses, unit price, total.....	(1,000 units) xxx	1,208,435	(1,000 units) xxx	(1,000 units) xxx	1,097,551
2333011	Dresses made in cut-and-sew shops.....	137,404	1,097,440	18,283	129,856	1,097,551
2333013	Dresses and suits made in knitting mills.....	4,500	41,180	2,400	(NA)	(NA)
2333000	Dresses, unit price, not specified by kind.....	xxx	69,815	xxx	xxx	xxx
2334---	Women's, misses', and juniors' dozen-price dresses and washable service apparel, total.....	(1,000 dozen) xxx		(1,000 dozen) xxx	(1,000 dozen) xxx	
	Dozen-price dresses:					
2334111	Quantity reported.....	9,215	296,532	3,455	6,255	246,861
2334100	Quantity not reported.....	xxx	257			
23342	Washable service apparel.....	xxx	56,602	xxx	xxx	45,726
2334215	Aprons, smocks, hooovers, swirls, and pinafore aprons (except rubber, plastic and rubberized fabrics).....	1,898	14,833	75	2,163	20,015
	Other washable service apparel:					
2334231	Nurses' uniforms.....	599	23,757	5	685	23,585
2334235	Maids' uniforms.....	135	3,718	8		
2334237	Other washable service apparel.....	495	12,640	259	(NA)	2,126
2334200	Aprons, uniforms, etc., not specified by kind.....	xxx	1,654	xxx	xxx	xxx
2334000	Dozen-price dresses and washable service apparel, not specified by kind.....	xxx	14,340	xxx	xxx	1,461
2337---	Women's, misses', and juniors' coats, suits, and skirts, total...	(1,000 units) xxx	1,101,371	(1,000 units) xxx	(1,000 units) xxx	955,070
23371	Coats (except fur).....	xxx	509,390	xxx	xxx	505,105
2337111	Fur-trimmed coats.....	1,541	52,742	567	1,924	94,464
2337151	Untrimmed coats (coats without fur).....	21,042	442,276	3,799	19,081	410,641
2337171	Uniform coats, topcoats and overcoats.....	28	831	xxx		
2337100	Coats (except fur) not specified by kind.....	xxx	13,541	xxx	xxx	xxx
23372	Suits.....	xxx	245,581	xxx	xxx	341,402
2337211	Suits, excluding ski, snow, slack, and uniform suits.....	12,138	240,505	2,046	14,352	341,402
2337217	Non-military tailored uniform suits.....	81	1,881	49	(NA)	(NA)
2337200	Suits, not specified by kind.....	xxx	3,195	xxx	xxx	xxx
2337311	Jackets, excluding leather.....	(1,000 dozen) 712	27,066	(1,000 dozen) 302	(1,000 dozen) 289	18,064
	Separate skirts:					
2337411	Quantity reported.....	5,773	240,027	1,695	2,020	78,271
2337400	Quantity not reported.....	xxx	5,677	xxx		
2337000	Coats, suits, and skirts, not specified by kind.....	xxx	73,630	xxx	xxx	12,228
2338---	Neckwear and scarfs, total.....	xxx	31,186	xxx	xxx	48,552
2338011	Dickies.....	40	428	xxx	(NA)	3,802
2338015	Scarfs and other neckwear (except fur).....	2,887	28,739	347	(NA)	44,424
2338000	Neckwear and scarfs (except fur) not specified by kind.....	xxx	2,019	xxx	xxx	326
2339---	Women's, misses', and juniors', outerwear, n.e.c., total.....	xxx	395,400	xxx	xxx	180,562
22531(pt)	Sweaters, jackets, jerseys, pullovers, and sacques <sup>3</sup> .....	xxx	180,473	xxx	...	71,569
	Pullover sweaters and jerseys:					
2253131	All wool.....	1,387	41,694	865	1,320	36,971
2253135	All nylon.....	310	8,256	(NA)		
2253137	Made from other yarns.....	1,385	41,827	868		
	Coat and cardigan sweater:					
2253141	All wool.....	779	35,018	380	1,055	34,598
2253145	All nylon.....	120	3,895	(NA)		
2253147	Made from other yarns.....	1,406	49,783	973		
22532(pt)	Knit outerwear shirts: <sup>3</sup>					
2253231	Polo, tennis, basque, T, sweat, and other knit shirts.....	1,521	22,332	548	556	5,740

See footnotes at end of table.



## WOMEN'S AND MISSES' OUTERWEAR

23C-21

Table 6A.—QUANTITY AND VALUE OF PRODUCTS SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, FOR THE UNITED STATES: 1954 AND 1947—Continued

Product code	Product	Garments cut				
		1954			1947	
		Total		Cuttings of garments on contract (quantity) <sup>1</sup>	Quantity	Sales value
		Quantity	Sales value			
2339---	Women's, misses', and juniors', outerwear, n.e.c.—Continued	(1,000 dozen)		(1,000 dozen)	(1,000 dozen)	
22533(pt)	Swimwear <sup>3</sup> .....	xxx	48,005	xxx	...	28,500
2253331	Knit bathing suits.....	29	2,414	19	144	7,090
	Woven fabric bathing suits:					
2253333	Elastic fabric.....	479	32,492	192	399	21,410
2253335	Other than elastic.....	262	13,099	108		
23390	Outerwear, n.e.c.....	xxx	144,240	xxx	xxx	74,753
	Playgarments:					
2339011	Playshorts, pedal pushers, and short overalls.....	2,656	49,902	509	644	22,680
2339013	Playsuits.....	231	4,983	29		
2339015	Dungarees and jeans.....	1,320	25,170	362	xxx	(4)
2339017	Other playgarments, including halters.....	847	7,955	196	xxx	(4)
2339031	Ski and snow suits.....	13	728	8	21	1,965
2339041	Ski and snow pants and leggings.....	5	520	2		
2339051	Slack suits.....	12	448	4	673	27,100
2339061	Slacks, including work slacks.....	911	27,374	367		
2339000	Outerwear, not specified by kind.....	xxx	27,160	xxx	xxx	23,008

xxx Not applicable.

NA Not available.

<sup>1</sup>The quantities shown exclude cuttings not reported by kind. For such quantities, contract receipts of establishments in each of the following industries amounted to: Industry 2331: \$2,669 thousand; Industry 2333: \$12,098 thousand; Industry 2334: \$2,002 thousand; Industry 2337: \$12,944 thousand; Industry 2338: \$240 thousand; Industry 2339: \$2,431 thousand.

<sup>2</sup>Excludes polo, tennis, basque, T, and other knit outerwear shirts.

<sup>3</sup>Excludes production of knit outerwear for which the type of garment was not specified; see Industry 2253, Knit Outerwear Mills, for the value of this production.

<sup>4</sup>Included with product code 2339000.

## MANUFACTURES—INDUSTRY STATISTICS

Table 6B.—QUANTITY AND SALES VALUE OF GARMENTS CUT FOR WOMEN'S, MISSES', AND JUNIOR'S SELECTED OUTERWEAR, BY WHOLESALE FACTORY PRICE AND PRINCIPAL FABRIC: 1954

Code	Garment and wholesale factory price	Total		Cotton		Rayon and acetate		Wool		Silk		Nylon		Linen		Polyester and acrylic fabrics		Other, including fabric not specified	
		Quantity	Value (\$1,000)	Quantity	Value (\$1,000)	Quantity	Value (\$1,000)	Quantity	Value (\$1,000)	Quantity	Value (\$1,000)	Quantity	Value (\$1,000)	Quantity	Value (\$1,000)	Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
2331011	Blouses, blousesettes, waists and shirts (quantities in thousand dozens), total.....	12,686	299,205	6,569	136,689	1,757	42,155	784	24,973	183	7,517	1,425	46,117	282	7,479	525	14,403	1,158	19,871
	Under \$11.50.....	2,046	16,836	1,217	9,452	164	1,197	145	1,002	44	477	99	968	65	597	55	351	254	2,792
	\$11.50 to \$16.49.....	1,356	13,495	964	13,495	179	3,523	70	1,065	(D)	(D)	66	910	(D)	(D)	17	220	45	709
	\$16.50 to \$22.49.....	1,842	30,634	1,168	20,061	199	3,523	31	579	1	19	156	2,708	(D)	(D)	114	1,941	171	1,803
	\$22.50 to \$29.49.....	1,253	27,527	1,023	22,228	98	2,142	12	285	(D)	(D)	39	879	(D)	(D)	56	1,504	12	274
	\$29.50 to \$39.49.....	3,169	87,796	1,630	45,436	544	14,694	205	5,635	34	1,033	464	12,691	27	583	168	4,936	94	2,788
	\$39.50 to \$49.49.....	1,945	77,346	470	21,366	484	13,237	239	11,526	32	1,542	532	22,746	74	2,003	90	4,060	21	866
	\$49.50 to \$71.49.....	392	13,803	20	1,319	(D)	(D)	28	1,833	18	1,204	(D)	(D)	(D)	(D)	9	628	235	3,724
	\$71.50 and over.....	524	23,066	64	2,906	43	1,886	51	3,022	30	2,802	32	2,987	111	4,104	13	746	176	4,613
	Price not specified.....	155	2,690	9	401	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	146	2,280
2333011	Dresses, unit price, made in cut and sew shops (quantities in thousand units), total.....	137,404	1,097,440	47,209	309,799	71,073	514,013	6,194	94,469	3,759	85,732	2,801	30,406	300	6,476	447	3,806	5,628	52,738
	Under \$3.50.....	412	874	(D)	(D)	40	93	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	\$3.50 to \$4.49.....	13,285	36,671	6,806	19,424	5,862	15,565	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	\$4.50 to \$6.49.....	52,427	243,748	19,134	89,288	30,233	139,791	309	1,694	(D)	(D)	836	3,942	(D)	(D)	238	1,262	1,535	7,202
	\$6.50 to \$10.49.....	38,993	289,200	14,002	101,732	21,404	158,845	1,417	11,219	1,128	12,464	793	6,264	106	1,351	74	960	1,081	8,771
	\$10.50 to \$16.49.....	20,509	240,459	5,032	58,372	9,783	114,439	2,688	32,246	(D)	(D)	750	8,862	55	1,032	39	708	944	11,765
	\$16.50 to \$22.49.....	5,205	93,522	1,007	16,584	2,302	41,917	612	11,122	(D)	(D)	165	2,990	76	1,867	7	185	393	7,397
	\$22.50 to \$31.49.....	3,300	80,820	556	13,847	943	23,287	645	15,477	824	19,667	142	3,487	48	2,100	1	188	104	3,003
	\$31.50 and over.....	2,391	106,981	296	9,587	503	20,052	488	22,569	764	39,410	112	4,846	18	8,399	(D)	(D)	176	8,399
	Price not specified.....	878	4,982	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2334111	Dozen-price dresses (quantities in thousand dozens), total.....	9,215	296,532	7,747	233,488	1,015	45,420	41	3,707	14	462	87	3,644	5	384	24	1,350	279	8,076
	Under \$11.50.....	423	3,592	202	2,224	146	690	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	\$11.50 to \$16.49.....	1,220	17,902	1,168	17,306	96	1,920	4	80	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	20	257
	\$16.50 to \$23.49.....	1,200	24,526	1,064	21,841	33	965	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	27	540
	\$23.50 to \$31.49.....	3,161	77,383	3,072	74,984	312	10,932	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	17	510
	\$31.50 to \$46.49.....	1,700	62,564	1,367	50,828	283	16,030	(D)	(D)	(D)	(D)	11	7	(D)	(D)	2	153	12	431
	\$46.50 to \$84.49.....	939	58,796	624	40,758	283	16,030	(D)	(D)	(D)	(D)	7	688	(D)	(D)	3	288	6	450
	\$84.50 to \$106.49.....	207	19,402	105	10,031	74	6,879	15	1,481	(D)	(D)	7	686	(D)	(D)	(D)	(D)	(D)	(D)
	\$106.50 and over.....	232	26,978	141	15,491	61	7,774	13	1,801	(D)	(D)	7	824	(D)	(D)	7	788	(D)	(D)
	Price not specified.....	128	5,087	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2337111	Fur trimmed coats (quantities in thousand units), total.....	1,541	52,742	(D)	(D)	72	869	1,360	48,307	(D)	(D)	8	121	(D)	(D)	(D)	(D)	74	3,126
	Under \$22.50.....	489	6,681	(D)	(D)	8	132	462	6,255	(D)	(D)	7	105	(D)	(D)	(D)	(D)	8	130
	\$22.50 to \$29.49.....	148	3,797	(D)	(D)	(D)	(D)	128	3,330	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	15	380
	\$29.50 to \$39.49.....	150	5,072	(D)	(D)	(D)	(D)	146	4,941	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4	131
	\$39.50 to \$49.49.....	296	12,993	(D)	(D)	(D)	(D)	290	12,714	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2	139
	\$49.50 to \$76.49.....	174	11,215	(D)	(D)	(D)	(D)	174	11,199	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	16
	\$76.50 to \$101.49.....	67	5,720	(D)	(D)	(D)	(D)	48	5,466	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	\$101.50 and over.....	203	3,118	(D)	(D)	(D)	(D)	15	2,410	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4	708
	Price not specified.....	193	4,102	(D)	(D)	(D)	(D)	93	1,962	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Untrimmed coats, coats without fur—(quantities in thousand units), total.....	21,042	442,276	327	3,278	1,246	12,280	17,601	393,350	4	262	390	4,249	2	85	87	2,142	1,381	26,629
2337151	Under \$11.50.....	4,009	34,518	194	1,204	762	4,673	2,723	25,650	(D)	(D)	211	1,941	(D)	(D)	(D)	(D)	117	1,046
	\$11.50 to \$16.49.....	3,865	53,150	69	744	296	4,111	3,171	44,027	(D)	(D)	177	2,263	(D)	(D)	(D)	(D)	142	1,882
	\$16.50 to \$22.49.....	4,584	82,175	52	959	21	1,688	4,322	77,296	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	161	3,089
	\$22.50 to \$29.49.....	2,663	64,632	7	184	68	2,522	2,522	61,238	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	32	834
	\$29.50 to \$39.49.....	2,218	67,291	(D)	(D)	(D)	(D)	2,137	64,326	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	41	1,664
	\$39.50 to \$49.49.....	834	33,509	(D)	(D)	5	207	815	32,735	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	12	501
	\$49.50 and over.....	1,289	78,642	1	113	1	80	1,239	75,379	1	187	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Price not specified.....	1,576	28,252	(D)	(D)	(D)	(D)	665	12,659	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Untrimmed coats, coats without fur—(quantities in thousand units), total.....	21,042	442,276	327	3,278	1,246	12,280	17,601	393,350	4	262	390	4,249	2	85	87	2,142	1,381	26,629
	Under \$11.50.....	4,009	34,518	194	1,204	762	4,673	2,723	25,650	(D)	(D)	211	1,941	(D)	(D)	(D)	(D)	117	1,046

See footnote at the end of table.

Table 68.--QUANTITY AND SALES VALUE OF GARMENTS CUT FOR WOMEN'S, MISSES', AND JUNIOR'S SELECTED OUTERWEAR, BY WHOLESALE FACTORY PRICE AND PRINCIPAL FABRIC: 1954--Continued

Code	Garment and wholesale factory price	Total		Cotton		Rayon and acetate		Wool		Silk		Nylon		Linen		Polyester and acrylic fabrics		Other, including fabric not specified
		Quantity	Value (\$1,000)	Quantity	Value (\$1,000)	Quantity	Value (\$1,000)	Quantity	Value (\$1,000)	Quantity	Value (\$1,000)	Quantity	Value (\$1,000)	Quantity	Value (\$1,000)	Quantity	Value (\$1,000)	
2337211	Suits (quantities in thousand units), total.	12,138	240,505	403	5,426	5,360	57,862	5,662	163,970	66	3,512	56	894	430	6,305			
	Under \$11.50.....	4,126	32,979	231	1,782	2,871	21,850	904	8,663	(D)	(D)	(D)	(D)	87	485			
	\$11.50 to \$16.49.....	2,892	37,322	74	1,006	1,946	25,095	685	8,312	(D)	(D)	(D)	(D)	18	251			
	\$16.50 to \$22.49.....	688	12,067	37	689	342	5,827	291	5,229	1	20	2	43	13	259			
	\$22.50 to \$29.49.....	1,363	32,797	33	732	124	2,901	1,176	28,687	7	207	(D)	(D)	12	71			
	\$29.50 to \$39.49.....	1,361	43,897	5	158	27	866	1,304	42,059	16	588	2	75	(D)	4	147		
	\$39.50 to \$51.49.....	433	17,535	2	103	4	190	402	16,242	7	337	(D)	(D)	15	616			
	\$51.50 and over.....	874	57,064	18	945	(D)	(D)	796	51,917	31	2,331	3	204	(D)	(D)			
	Price not specified..	397	6,692	...	...	(D)	(D)	100	2,832	...	...	...	...	(D)	(D)			
	Jackets excluding leather (quantities in thou- sand dozens), total....	712	27,066	241	8,567	32	1,993	137	8,457	(D)	5	422	1	37	294	7,533		
2337411	Skirts (quantities in thousand dozens), total	5,773	240,029	1,896	71,438	1,625	53,707	1,876	99,031	9	737	20	1,331	238	9,332			
	Under \$22.50.....	724	19,350	244	6,153	203	5,264	248	7,255	(D)	(D)	(D)	(D)	10	237			
	\$22.50 to \$29.49.....	1,006	25,104	411	10,034	457	11,599	(D)	(D)	(D)	(D)	(D)	2	193	53			
	\$29.50 to \$39.49.....	1,358	41,969	533	16,592	513	14,908	236	7,984	(D)	(D)	4	161	34	1,455			
	\$39.50 to \$48.49.....	1,154	49,065	345	15,012	298	12,580	432	18,302	(D)	(D)	1	15	475	1,555			
	\$48.50 to \$59.49.....	524	27,562	176	9,726	44	2,419	293	14,849	...	...	1	23	80	942			
	\$59.50 to \$76.49.....	375	23,852	74	4,766	43	2,830	211	13,738	(D)	(D)	1	31	94	260			
	\$76.50 to \$83.49.....	232	17,106	72	5,608	15	1,227	129	9,085	(D)	2	4	306	1	97	528		
	\$83.50 and over.....	321	33,806	32	3,367	(D)	(D)	242	25,746	(D)	...	5	449	2	180	7		
	Price not specified..	76	2,027	4	153	(D)	(D)	(D)	...	...	...	...	...	4	470	16	1,336	1,000
2339031	Ski and snow suits (quan- tities in thousand doz- ens), total.....	12	728	1	132	3	231	8	362	...	...	...	...	( <sup>1</sup> )	1			
2339041	Ski and snow pants and leggings (quantities in thousand dozens), total	5	520	( <sup>1</sup> )	2	...	...	3	383	...	...	...	...	2	134			
2339051	Slack suits (quantities in thousand dozens), total	12	448	9	152	1	83	1	123	...	...	...	...	1	89			
2339061	Slacks (quantities in thousand dozens), total	911	27,374	228	6,451	230	6,135	118	5,018	(D)	12	86	(D)	309	9,313			

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup> Less than 500 dozen.

WOMEN'S AND MISSES' OUTERWEAR



## MANUFACTURES—INDUSTRY STATISTICS

Table 6C.—VALUE OF PRODUCT CLASSES SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, BY DIVISIONS AND STATES FOR 1954, AND UNITED STATES TOTALS FOR EARLIER YEARS

(In thousands of dollars. Statistics are shown for selected product classes which are economically significant and production of which is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (Table 2) and they are not miscellaneous or "not specified by type" classes. For each product class, States are listed only if the value of shipments is more than \$1 million and the figure does not disclose individual company information. Additional States which had shipments of more than \$1 million of the individual product classes are listed in footnote 1)

Product class, region and State <sup>1</sup>	Value of shipments	Product class, region, and State <sup>1</sup>	Value of shipments	Product class, region, and State <sup>1</sup>	Value of shipments
<u>Women's, misses', and juniors' blouses (23310)</u>		<u>Women's, misses', and juniors' unit-price dresses (23330)—Continued</u>		<u>Women's, misses', and juniors' dozen-price dresses (23341)—Continued</u>	
1954 United States, total.....	315,658	East North Central.....	54,253	West South Central.....	5,312
1953 United States, total.....	337,913	Ohio.....	10,189	Mountain.....	2,492
1952 United States, total.....	309,445	Illinois.....	32,891	Pacific.....	6,126
1951 United States, total.....	293,305	Wisconsin.....	8,784	California.....	5,681
1950 United States, total.....	257,737	West North Central.....	34,082	Women's and misses' washable service apparel (23342)	
1947 United States, total.....	237,840	Missouri.....	29,495	1954 United States, total.....	56,602
1954		South Atlantic.....	21,439	1947 United States, total.....	45,726
New England.....	9,285	South Carolina.....	6,531	1954	
Massachusetts.....	8,267	Georgia.....	1,852	New England.....	5,152
Middle Atlantic.....	235,567	Florida.....	8,154	Massachusetts.....	4,818
New York.....	198,735	East South Central.....	1,363	Middle Atlantic.....	18,721
New Jersey.....	5,295	West South Central.....	16,207	New York.....	15,691
Pennsylvania.....	31,537	Texas.....	16,147	Pennsylvania.....	2,544
East North Central.....	11,596	Mountain.....	2,424	East North Central.....	8,188
Ohio.....	3,769	Arizona.....	1,341	Indiana.....	2,106
Illinois.....	5,249	Pacific.....	54,633	Illinois.....	3,036
Michigan.....	1,211	California.....	54,539	Michigan.....	1,247
West North Central.....	3,426	<u>Women's, misses', and juniors' dozen-price dresses (23341)</u>		Wisconsin.....	1,156
Missouri.....	2,140	1954 United States, total.....	296,532	West North Central.....	7,420
South Atlantic.....	15,523	1947 United States, total.....	246,861	Missouri.....	6,500
South Carolina.....	6,741	1954		South Atlantic.....	11,038
Georgia.....	1,098	New England.....	20,339	Maryland.....	6,282
East South Central.....	1,518	Middle Atlantic.....	127,428	Virginia.....	1,672
West South Central.....	8,923	New York.....	80,170	Georgia.....	2,509
Texas.....	6,735	New Jersey.....	6,028	West South Central.....	1,634
Pacific.....	29,175	Pennsylvania.....	41,229	Texas.....	1,483
California.....	27,962	East North Central.....	70,813	West.....	3,952
<u>Women's, misses', and juniors' unit-price dresses (23330)</u>		Ohio.....	14,317	California.....	3,687
1954 United States, total.....	1,208,435	Indiana.....	5,991	<u>Women's, misses', and juniors' coats, except fur (23371)</u>	
1953 United States, total.....	21,213,305	Illinois.....	49,800	1954 United States, total.....	509,390
1952 United States, total.....	21,163,441	West North Central.....	29,494	1947 United States, total.....	505,105
1951 United States, total.....	21,081,058	Missouri.....	26,175	1954	
1950 United States, total.....	21,027,438	South Atlantic.....	26,779	New England.....	21,564
1947 United States, total.....	1,097,551	Maryland.....	1,000	Massachusetts.....	16,239
1954		South Carolina.....	7,688	Middle Atlantic.....	384,816
New England.....	68,018	East South Central.....	7,748	New York.....	360,199
Massachusetts.....	52,740	Kentucky.....	1,567	New Jersey.....	16,420
Middle Atlantic.....	956,015	Tennessee.....	3,790	Pennsylvania.....	8,196
New York.....	902,880				
New Jersey.....	26,416				
Pennsylvania.....	26,718				

See footnotes at end of table.

## WOMEN'S AND MISSES' OUTERWEAR

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Table 6C.—VALUE OF PRODUCT CLASSES SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, BY DIVISIONS AND STATES FOR 1954,  
AND UNITED STATES TOTALS FOR EARLIER YEARS—Continued

Product class, region, and State <sup>1</sup>	Value of shipments	Product class, region, and State <sup>1</sup>	Value of shipments	Product class, region, and State <sup>1</sup>	Value of shipments
<u>Women's, misses', and juniors' coats, except fur (23371)—Continued</u>		<u>Women's, misses', and juniors' suits (23372)—Continued</u>		<u>Women's, misses', and juniors' skirts (23374)—Continued</u>	
East North Central.....	20,382	Middle Atlantic.....	165,758	Middle Atlantic.....	141,194
Ohio.....	6,842	New York.....	154,745	New York.....	127,508
Illinois.....	12,705	New Jersey.....	7,935	New Jersey.....	8,403
West North Central.....	22,391	Pennsylvania.....	3,077	Pennsylvania.....	5,282
Missouri.....	19,231	East North Central.....	20,128		
South Atlantic.....	12,478	Ohio.....	4,743	East North Central.....	14,168
Maryland.....	11,371	Illinois.....	10,647	Ohio.....	4,031
East South Central.....	5,720	Wisconsin.....	4,080	Illinois.....	5,593
Tennessee.....	3,867	West North Central.....	8,233	Wisconsin.....	3,936
Pacific.....	41,513	South.....	20,496	West North Central.....	6,012
Oregon.....	2,567	West South Central.....	4,937	South Atlantic.....	3,460
California.....	38,491	Texas.....	4,937		
		Pacific.....	23,051	Maryland.....	1,183
		California.....	22,836	Florida.....	1,092
<u>Women's, misses', and juniors' suits (23372)</u>		<u>Women's, misses', and juniors' skirts (23374)</u>			
1954 United States, total.....	245,581	1954 United States, total.....	240,027	East South Central.....	1,354
1947 United States, total.....	341,402	1947 United States, total.....	78,271	West South Central.....	6,687
1954		1954		Pacific.....	24,779
New England.....	7,028	New England.....	41,839	California.....	23,511
Massachusetts.....	5,723	Massachusetts.....	41,449		

Note: The figures shown for 1950 to 1953 are sample estimates obtained from the Annual Survey of Manufactures for those years. Since the estimates are based on a sample they are subject to sampling variability, that is, they are not the same as figures which would have been obtained if complete censuses had been taken for those years. Measures of the sampling variability (standard errors) of the estimated total value of shipments of each product class are shown in the Annual Survey of Manufactures publications. Also shown are the standard errors of the relative change in shipments between some consecutive Annual Survey years which are the more significant measures when the series is studied for trend.

<sup>1</sup>For the specified product classes, shipments of over \$1 million were reported for the States listed but the exact figures are withheld to avoid disclosure of individual company figures: 23310, Connecticut and Delaware; 23330, Vermont, Indiana, Minnesota, Maryland, and Tennessee; 23341, Massachusetts, Minnesota, Kansas, Virginia, West Virginia, North Carolina, Mississippi, Arkansas, Texas, and Utah; 23371, Connecticut, Minnesota, and Kentucky; 23372, Connecticut, Missouri, Maryland, South Carolina, and Kentucky; 23374, Missouri, Nebraska, and Texas.

<sup>2</sup>Excludes value of women's, misses', and juniors' knitted dresses and suits, classified in Industry 2253 in 1950-1953.

TABLE 7 NOT APPLICABLE TO THIS BULLETIN

## MANUFACTURES—INDUSTRY STATISTICS

Table 8.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY INDUSTRY SPECIALIZATION AND PRIMARY PRODUCT CLASS SPECIALIZATION, FOR THE UNITED STATES: 1954

(This table presents selected statistics for establishments classified according to their degree of specialization in products primary to the industry. The establishments are classified in two ways: (1) by industry specialization—the degree of specialization in all primary products of the industry; and (2) by product-class specialization—the degree of specialization in the largest product class of the establishment. The degree of "industry specialization" for an establishment represents the ratio of its primary product shipments to its total product shipments, primary and secondary. The degree of "product-class specialization" for an establishment represents the ratio of its largest product class shipments to its total product shipments, primary and secondary. Data are not shown for some industries, product classes, and specialization ranges for a variety of reasons, consequently, detailed figures frequently do not add to the totals. See Introduction for detailed explanation)

Ind. or product class No.	Industry or product class by percent of specialization	Establishments, number	All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
2334-Pt.A	WOMEN'S, MISSES', JUNIORS' DRESSES, DOZEN PRICE "MANUFACTURERS" (all establishments).....	441	26,718	66,983	23,465	42,694	48,962	113,838	119,163	233,002
	Establishments with:									
	90% or more specialization.....	341	19,973	50,026	17,558	31,842	36,767	85,114	89,877	174,992
	75-89% specialization.....	37	2,296	5,362	2,049	3,852	4,164	8,952	7,887	16,839
	50-74% specialization.....	46	3,161	7,961	2,716	4,861	5,487	12,399	15,626	28,026
	All other <sup>1</sup> .....	17	1,287	3,633	1,142	2,137	2,544	7,371	5,772	13,144
23341-Pt.A	Dozen-price dresses "Manufacturers:"									
	All establishments specializing in product class.	173	18,495	46,794	6,231	29,507	34,188	79,462	85,067	164,530
	Establishments with:									
	90% or more specialization.....	135	14,193	35,843	2,448	22,451	26,289	62,930	64,661	127,592
	75-89% specialization.....	16	2,133	5,043	1,939	3,685	4,011	8,357	8,441	16,798
	50-74% specialization.....	19	1,781	5,091	1,493	2,735	3,245	7,112	10,634	17,746
	Less than 50% specialization.....	3	387	816	350	635	642	1,062	1,330	2,392
23342-Pt.A	Washable service apparel "Manufacturers:"									
	All establishments specializing in product class.	195	6,165	14,954	5,413	9,823	10,975	24,497	23,933	48,430
	Establishments with:									
	90% or more specialization.....	132	3,581	8,851	3,139	5,751	6,355	14,324	14,596	28,920
	75-89% specialization.....	24	708	1,614	604	1,103	1,199	2,439	2,098	4,537
	50-74% specialization.....	30	1,533	3,252	1,369	2,395	2,576	5,906	5,831	11,738
	Less than 50% specialization.....	9	343	1,237	300	573	843	1,826	1,408	3,235
2334-Pt.B	WOMEN'S, MISSES' AND JUNIORS' DRESSES, DOZEN PRICE "JOBBER" (all establishments).....	68	4,059	14,307	3,107	5,957	8,424	35,821	107,007	142,829
	Establishments with:									
	90% or more specialization.....	57	3,815	13,267	2,931	5,567	7,846	32,085	94,332	126,417
	75-89% specialization.....	4	105	428	92	233	353	654	2,276	2,931
23341-Pt.B	Dozen-price dresses "Jobbers:"									
	All establishments specializing in product class.	53	3,779	13,137	2,951	5,644	8,014	31,461	93,612	125,073
	Establishments with:									
	90% or more specialization.....	47	3,579	12,413	2,786	5,275	7,459	29,948	89,418	119,367
	75-89% specialization.....	3	96	410	83	218	335	601	2,123	2,725
2337-Pt.A	WOMEN'S SUITS, COATS AND SKIRTS "MANUFACTURERS" (all establishments).....	1,154	41,158	151,076	35,432	63,858	112,726	246,896	288,566	535,460
	Establishments with:									
	90% or more specialization.....	1,001	32,807	125,918	28,192	50,906	94,607	206,349	241,009	447,358
	75-89% specialization.....	48	2,092	6,248	1,850	3,323	4,703	10,256	12,530	22,796
	50-74% specialization.....	76	3,870	11,835	3,322	5,764	8,233	17,940	19,753	37,694
	All other <sup>1</sup> .....	29	2,389	7,074	2,067	3,863	5,182	12,339	15,272	27,611
23371-Pt.A	Women's coats, except fur "Manufacturers:"									
	All establishments specializing in product class.	403	16,092	64,408	13,821	25,102	48,574	105,834	130,376	236,210
	Establishments with:									
	90% or more specialization.....	293	8,798	35,335	7,562	13,964	27,237	62,370	85,673	148,043
	75-89% specialization.....	40	3,020	11,979	2,573	4,600	8,569	19,275	20,660	39,936
23372-Pt.A	Women's suits "Manufacturers:"									
	All establishments specializing in product class.	164	10,271	38,415	9,035	16,150	29,319	59,364	49,214	108,578
	Establishments with:									
	90% or more specialization.....	76	5,098	18,738	4,623	8,208	15,266	28,886	24,864	53,751
	75-89% specialization.....	16	1,401	4,755	1,247	2,158	3,583	8,951	5,428	14,380
	50-74% specialization.....	56	3,414	13,674	2,861	5,136	9,484	19,638	17,262	36,901
	Less than 50% specialization.....	16	358	1,248	303	647	985	1,886	1,658	3,545
23373-Pt.A	Women's jackets "Manufacturers:"									
	All establishments specializing in product class.	26	1,083	2,832	981	1,726	2,326	5,489	6,163	11,653
	Establishments with:									
	75% or more specialization.....	10	139	346	120	213	256	588	577	1,167
	50-74% specialization.....	8	324	1,155	278	489	889	1,714	1,845	3,560
	Less than 50% specialization.....	8	620	1,331	583	1,023	1,181	3,186	3,740	6,926

See footnotes at end of table.



Table 8.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY INDUSTRY SPECIALIZATION AND PRIMARY PRODUCT CLASS SPECIALIZATION, FOR THE UNITED STATES: 1954—Continued

Ind. or product class No.	Industry or product class by percent of specialization	Establishments, number	All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
2337-Pt.A	WOMEN'S SUITS, COATS AND SKIRTS "MANUFACTURERS"—Con.									
23374-Pt.A	Women's skirts "Manufacturers:"									
	All establishments specializing in product class.	250	8,390	25,962	7,254	12,936	19,073	44,081	61,489	105,571
	Establishments with:									
	90% or more specialization.....	152	4,274	13,769	3,698	6,546	10,347	24,219	36,664	60,884
	70-89% specialization.....	29	822	2,668	695	1,303	1,949	4,134	6,557	10,691
	50-74% specialization.....	45	1,330	3,945	1,138	1,861	2,766	6,395	7,147	13,542
	Less than 50% specialization.....	24	1,963	5,579	1,721	3,225	4,010	9,333	11,121	20,454
2337-Pt.B	WOMEN'S SUITS, COATS AND SKIRTS "JOBBER'S"									
	(all establishments).....	590	9,835	50,603	5,540	9,768	21,618	128,623	423,947	552,570
	Establishments with:									
	90% or more specialization.....	510	7,897	41,508	4,423	7,680	17,644	106,635	360,599	467,236
	75-89% specialization.....	25	360	1,832	187	303	729	5,188	14,947	20,136
	50-74% specialization.....	37	795	3,664	497	978	1,881	9,169	28,288	37,458
	All other <sup>1</sup> .....	18	782	3,598	432	805	1,362	7,627	20,111	27,738
23371-Pt.B	Women's coats, (except fur) "Jobbers:"									
	All establishments specializing in product class.	278	4,038	22,140	2,266	3,797	9,277	58,622	211,443	270,067
	Establishments with:									
	90% or more specialization.....	246	3,017	16,475	1,654	2,762	6,776	46,850	168,558	215,410
	75-89% specialization.....	13	511	2,808	288	442	1,067	5,507	20,365	25,872
	50-74% specialization.....	19	508	2,856	323	592	1,433	6,265	22,519	28,785
	Less than 50% specialization.....	...	...	...	...	...	...	...	...	...
23372-Pt.B	Women's suits "Jobbers:"									
	All establishments specializing in product class.	92	1,990	11,573	1,001	1,685	4,170	27,254	82,892	110,147
	Establishments with:									
	90% or more specialization.....	61	1,120	6,307	588	975	2,258	13,661	47,677	61,339
	75-89% specialization.....	6	222	1,413	90	176	386	3,546	7,940	11,487
23373-Pt.B	Women's jackets "Jobbers:"									
	All establishments specializing in product class.	17	259	847	210	342	628	2,241	7,700	9,943
	Establishments with:									
	90% or more specialization.....	6	75	227	63	98	162	424	1,413	1,838
	75-89% specialization.....	5	61	268	48	81	216	677	1,792	2,470
23374-Pt.A	Women's skirts "Jobbers:"									
	All establishments specializing in product class.	176	3,212	14,338	1,872	3,552	6,765	36,211	110,593	146,804
	Establishments with:									
	90% or more specialization.....	116	1,767	7,785	1,069	2,068	4,134	21,613	66,754	88,367
	75-89% specialization.....	17	229	1,094	133	194	465	3,094	7,866	10,960
	50-74% specialization.....	28	567	2,297	344	641	1,090	4,995	18,900	23,896
	Less than 50% specialization.....	15	648	3,161	324	648	1,075	6,508	17,072	23,580

Note: Plant specialization data are not shown for these industries as a whole since specialization ratios for contractors were not computed. Such ratios would not be meaningful since they could relate to only a minor portion of the contractors' total activity, that is, production on own account from materials owned by them, and would not be representative of the activity of these establishments as a whole.

<sup>1</sup>This class includes data for establishments with less than 50 percent specialization in the primary products of the industry and miscellaneous small statistical adjustments.



## Women's and Children's Undergarments; Millinery; Children's Outerwear; Fur Goods

This report shows 1954 Census of Manufactures statistics for establishments classified in each of the following industries:

<u>Code</u>	<u>Title</u>
2341--	Women's and Children's Underwear
2342--	Corsets and Allied Garments
2351--	Millinery
2361--	Children's Dresses
2363--	Children's Coats
2369--	Children's Outerwear, Not Elsewhere Classified
2371--	Fur Goods

2341--Women's and Children's Underwear (Full Standard Industrial Classification Title: Women's, Misses', Children's, and Infants' Underwear and Nightwear)

This industry comprises establishments primarily engaged in manufacturing women's, misses', children's, and infants' underwear and nightwear cut and sewed from purchased woven or knit fabric. Knitting mills primarily engaged in manufacturing underwear and nightwear are classified in Industry 2254, Knit Underwear Mills. For a detailed list of primary products of Industry 2341, refer to Table 6A, product codes 2341111 to 2341289.

The value of production of Industry 2341, Women's and Children's Underwear, in 1954 totaled \$770 million. This included output of primary products (women's and children's underwear and nightwear) valued at \$675 million, production of secondary products valued at \$37 million, and miscellaneous receipts (mainly contract work on materials owned by others) of \$58 million.

Industry 2341 output of women's and children's underwear and nightwear in 1954 represented 95 percent of its total products, (primary and secondary), which was the same as the 1947 primary product specialization ratio. Secondary products made by this industry in 1954 consisted mainly of children's underwear, n.e.c., \$8 million; men's and boys' underwear, \$4 million; men's and boys' nightwear, \$3 million; and brassieres, \$4 million.

Industry 2341 production of women's and children's underwear and nightwear in 1954 represented 85 percent of these products valued at \$799 million, made by all industries. This coverage ratio was 78 percent in 1947. The principal other industry making women's and children's underwear and nightwear was Industry 2254, Knit Underwear Mills, \$84 million.

The Bureau of the Census publishes current quarterly data on the production and shipments of women's and children's knit cotton and wool underwear and nightwear and annual figures on the production of knit underwear and nightwear made from other yarns in Facts For Industry, series M67C, Knit Underwear and Nightwear. Information on the production of women's and children's woven underwear and nightwear is published in Facts For Industry, series M67J, Women's and Children's Woven Fabric Underwear and Nightwear. In addition, monthly cutting figures on women's slips and half slips are shown in Facts For Industry, series M67H, Women's, Misses', and Juniors' Apparel. The 1954 Census production figures shown in Table 6A may differ from the sum of the current estimates shown in the Facts For Industry reports (M67C and M67H) due to differences in reporting by the same respondents on the current and the census questionnaires, and to some extent to the effect of sampling variations in the current estimates. In addition, it should be noted that some manufacturers in reporting for the 1954 Census did not adequately describe the specific garments which they made or reported value only. The value of such output is shown in Table 6A under the several categories for "Not specified by kind." The 1954 Census statistics on number of garments cut do not, of course, include the output represented by such values.

### 2342--Corsets and Allied Garments

This industry comprises establishments primarily engaged in manufacturing corsets and corset accessories, brassieres,

girdles, foundation garments, and similar body supporting garments. Establishments engaged in manufacturing surgical and orthopedic appliances are classified in Industry 3842, Surgical Appliances and Supplies. For a detailed list of primary products of Industry 2342, refer to Table 6A, product codes 2342111 to 2342351.

The value of production of Industry 2342, Corsets and Allied Garments, in 1954 totaled \$395 million. This included output of primary products (brassieres, corsets and allied garments) valued at \$335 million, production of secondary products valued at \$15 million, and miscellaneous receipts (mainly contract work on materials owned by others) of \$44 million.

Industry 2342 output of corsets and allied garments in 1954 represented 96 percent of its total products (primary and secondary). In 1947, this primary product specialization ratio was 94 percent. Secondary products made by this industry in 1954 consisted mainly of swimwear, \$2 million, and women's and children's underwear, \$2 million.

Industry 2342 shipments of corsets and allied garments in 1954 represented 95 percent of these products, valued at \$351 million, shipped by all industries. This coverage ratio was 97 percent in 1947.

### 2351--Millinery

This industry comprises establishments primarily engaged in manufacturing women's, misses', children's, and infants' trimmed hats from felt or straw hat bodies and purchased millinery materials. Establishments primarily engaged in manufacturing fur-felt and wool-felt hat bodies and finished hats made from hat bodies manufactured in the same establishment are classified in Group 228, Hats, Except Cloth and millinery; women's uniform hats and caps in Industry 2325, Men's and Boys' Cloth Hats; and millinery braid and trimming in Industry 2396, Trimmings and Art Goods. Establishments producing millinery primarily for direct sale to household consumers through a retail store on the premises of the establishment are classified in Retail Trade. For a detailed list of primary products of Industry 2351, refer to Table 6A, product codes 2351011 to 2351098.

The value of shipments of Industry 2351, Millinery, totaled \$173 million. This included shipments of primary products (millinery) valued at \$168 million, shipments of secondary products valued at \$1 million, and miscellaneous receipts (mainly contract work on materials owned by others) of \$4 million.

Industry 2351 shipments of millinery in 1954 represented 99 percent of its total product shipments (primary and secondary), which was the same as the 1947 primary product specialization ratio.

Industry 2351 shipments of millinery in 1954 represented 98 percent of the millinery, valued at \$170 million, shipped by all industries. This coverage ratio was also 98 percent in 1947.

Separate 1954 Census figures for the Millinery Industry by type of establishment ("manufacturers," "jobbers," and "contractors") were not tabulated, since practically all establishments classified in Industry 2351 operate as "manufacturers." In this connection, it should be noted that the cost of contract work as well as receipts for contract and commission work reported for this industry (see Tables 3 and 5B) are relatively small.

2361--Children's Dresses (Full Standard Industrial Classification Title: Children's and Infants' Dresses)

This industry comprises establishments primarily engaged in manufacturing children's and infants' dresses cut and sewed from purchased woven or knit fabric. Other products included in this industry are: children's blouses, blousesettes, waists, and shirts. In addition, establishments primarily engaged in manufacturing these garments in teen-age girls' and girls'



sizes are also included in this industry. Knitting mills primarily engaged in manufacturing dresses are classified in Industry 2253, Knit Outerwear Mills. For a detailed list of primary products of Industry 2361, refer to Table 6A, product codes 2361011 to 2361051.

The value of production of Industry 2361, Children's Dresses, in 1954 totaled \$291 million. This included output of primary products (girls' and children's dresses and blouses) valued at \$234 million, production of secondary products valued at \$13 million, and miscellaneous receipts (mainly contract work on materials owned by others) of \$44 million.

Industry 2361 output of girls' and children's dresses and blouses in 1954 represented 95 percent of its total products, (primary and secondary). In 1947, this primary product specialization ratio was 93 percent. Secondary products made by this industry in 1954 consisted principally of children's outerwear, n.e.c., \$8 million.

Industry 2361 production of girls' and children's dresses and blouses in 1954 represented 93 percent of these products, valued at \$251 million, made by all industries. This coverage ratio was 91 percent in 1947. The principal other industry making girls' and children's dresses and blouses in 1954 was Industry 2369, Children's Outerwear, N.E.C., \$9 million.

The Bureau of the Census publishes annual information covering the output of Industry 2361 in Facts For Industry, series MA67K, Girls', Children's, and Infants' Outerwear. Data on the cuttings of garments shown in Table 6A of this report are comparable with those shown in the Facts For Industry reports for earlier years. The value of shipment figures shown by industry in the Facts For Industry reports, however, exclude receipts for contract work whereas such receipts are included in the value of shipment figures by industry shown in this report. The Facts For Industry shipment figures therefore are more closely comparable to the data shown in Table 5B for the value of shipments of primary and secondary products for each of the industries.

2363--Children's Coats (Full Standard Industrial Classification Title: Children's and Infants' Coats)

This industry comprises establishments primarily engaged in manufacturing children's and infants' coats, coat-and-legging sets, and snow suits cut and sewed from purchased woven or knit fabric. Also included in this industry are establishments primarily engaged in manufacturing these garments in teen-age girls' and girls' sizes. Knitting mills primarily engaged in manufacturing outerwear are classified in Industry 2253, Knit Outerwear Mills. The 1947 Census of Manufactures data for Industry 2363 have been revised to exclude establishments primarily engaged in making girls' and children's skirts. For the 1954 Census such establishments are included in Industry 2369, children's outerwear, N.E.C. For a detailed list of primary products of Industry 2363, refer to Table 6A, product codes 2363011 to 2363075.

The value of production of Industry 2363, Children's Coats, in 1954 totaled \$172 million. This included output of primary products (girls', children's and infants' coats) valued at \$136 million, production of secondary products valued at \$14 million, and miscellaneous receipts (mainly contract work on materials owned by others) of \$22 million.

Industry 2363 output of girls', children's and infants' coats, including suits and jackets in 1954 represented 91 percent of its total product made (primary and secondary) which was the same as the 1947 primary product specialization ratio. Secondary products made by this industry in 1954 consisted mainly of children's outerwear, n.e.c., \$4 million.

Industry 2363 shipments of girls', children's and infants' coats, including suits, and jackets represented 81 percent of these products, valued at \$167 million, made by all industries. This coverage ratio was 87 percent in 1947. Other industries making girls', children's and infants' coats, including suits, and jackets in 1954 consisted mainly of Industry 2337, Women's Suits, Coats, and Skirts, \$6 million, and Industry 2369, Children's Outerwear N.E.C., \$16 million.

The Bureau of the Census publishes annual information covering the output of Industry 2363 in Facts For Industry, series MA67K, Girls', Children's, and Infants' Outerwear. For

a statement on the comparability of the figures shown in this report and those shown for earlier years in the Facts For Industry reports refer to Industry 2361.

2369--Children's Outerwear, N.E.C. (Full Standard Industrial Classification Title: Children's and Infants' Outerwear, Not Elsewhere Classified)

This industry comprises establishments primarily engaged in manufacturing children's and infants' outerwear not elsewhere classified, such as house coats, middies, slacks, beachwear, rompers, sun suits, play suits, bathrobes, and headwear cut and sewed from purchased woven or knit fabric. Also included in this industry are establishments primarily engaged in manufacturing these garments (except millinery) in teen-age girls' and girls' sizes. Knitting mills primarily engaged in manufacturing outerwear are classified in Industry 2253, Knit Outerwear Mills. The 1947 Census of manufacturers data for Industry 2369 have been revised to include establishments primarily engaged in making girls' and children's skirts. For the 1954 Census, such establishments were excluded from Industry 2363, Children's Coats. For a detailed list of primary products of Industry 2369, refer to Table 6A, product codes 2253151 to 2253177, 2253241 to 2253251, 2253341 to 2253355, and 2369015 to 2369098.

The value of production of Industry 2369, Children's Outerwear, N.E.C., in 1954 totaled \$278 million. This included output of primary products (children's outerwear, n.e.c.) valued at \$195 million, production of secondary products valued at \$54 million, and miscellaneous receipts (mainly contract work on materials owned by others) of \$30 million.

Industry 2369 output of children's outerwear, n.e.c. in 1954 represented 78 percent of its total products (primary and secondary). For 1947 this primary product specialization ratio is not available. Secondary products shipped by this industry in 1954 consisted mainly of girls', children's and infants' coats, \$16 million, and girls' and children's dresses and blouses, \$9 million.

Industry 2369 production of children's outerwear, n.e.c. in 1954 represented 62 percent of these products valued at \$313 million, made by all industries. For 1947 this coverage ratio is not available. Other industries making children's outerwear, n.e.c. in 1954 consisted mainly of Industry 2253, Knit Outerwear Mills, \$10 million; Industry 2329, Men's and Boys' Clothing, N.E.C., \$17 million; Industry 2339, Women's Outerwear, N.E.C. \$6 million; Industry 2341, Women's and Children's Underwear, \$8 million; and Industry 2361, Children's Dresses, \$8 million.

The Bureau of the Census publishes annual information covering the output of Industry 2369 in Facts For Industry, series MA67K, Girls', Children's, and Infants' Outerwear. For a statement on the comparability of the figures shown in this report and those shown for earlier years in the Facts For Industry reports, refer to statement for Industry 2361.

2371--Fur Goods

This industry comprises establishments primarily engaged in manufacturing fur coats; and other garments, accessories, and trimmings made of fur. Establishments primarily engaged in manufacturing sheep-lined clothing are classified in Industry 2386, Leather and Sheep-Lined Clothing, and those engaged in the dyeing and dressing of furs in Industry 3992, Furs; Dressed and Dyed. Establishments primarily engaged in making and reconditioning fur garments to individual order of the household consumer are classified in Retail Trade.

The value of shipments of Industry 2371, Fur Goods, in 1954 totaled \$228 million. This included shipments of primary products (fur goods) valued at \$215 million, shipments of secondary products valued at \$1 million, and miscellaneous receipts (mainly contract work on materials owned by others) of \$11 million. Industry 2371 shipments of fur goods in 1954 represented 99 percent of its total product shipments (primary and secondary). In 1947, this primary product specialization ratio was 100 percent.

Industry 2371 shipments of fur goods in 1954 accounted for all the fur goods valued at \$216 million shipped by all manufacturing industries. In 1947, this primary product specialization ratio was also 100 percent.

Separate 1954 Census figures for the Fur Goods Industry, by type of establishment ("Manufacturers," "Jobbers," and "Contractors") were not tabulated, since practically all establishments classified in Industry 2371 operate as "manufac-

turers." In this connection, it should be noted that the cost of contract work as well as receipts for contract and commission work reported for this industry are relatively small, see Tables 3 and 5B.

The general statistics (employment, payrolls, value of shipments, cost of materials, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products, and, for that matter, their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (Tables 1-4) with product statistics (Table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in Table 5A which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry made as secondary products by establishments classified in other industries.

## MANUFACTURES--INDUSTRY STATISTICS

Table 1.—GENERAL STATISTICS FOR THE UNITED STATES: 1954 AND EARLIER YEARS

(For explanation of column captions see Introduction)

Industry and census year	Establishments, number	All employees		Production workers		Value added by manufacture <sup>2</sup> (\$1,000)	Cost of materials, etc. <sup>3</sup> (\$1,000)	Value of shipments <sup>4</sup> (\$1,000)
		Number <sup>1</sup>	Payroll (\$1,000)	Number <sup>1</sup>	Wages (\$1,000)			
Women's and children's underwear (S.I.C. 2341):								
1954.....	1,352	73,427	176,305	66,885	140,063	298,385	471,641	770,026
1952 <sup>5</sup> .....	(NA)	60,756	148,689	53,848	112,470	248,744	441,304	689,752
1951 <sup>5</sup> .....	(NA)	57,623	134,837	50,107	99,603	227,310	416,284	643,594
1950 <sup>5</sup> .....	(NA)	58,516	126,456	52,556	96,314	185,590	389,978	575,443
1949 <sup>5</sup> .....	(NA)	56,805	121,018	50,752	89,141	205,802	361,824	567,626
1947.....	1,518	58,004	115,949	52,650	87,477	229,306	346,669	575,679
1939 <sup>6</sup> .....	759	(NA)	(NA)	39,859	27,582	59,006	101,452	160,458
1937.....	603	(NA)	(NA)	35,404	23,945	52,790	95,532	148,322
1935 <sup>7</sup> .....	775	40,648	32,752	37,817	26,831	58,948	100,372	159,320
Corsets and allied garments (S.I.C. 2342):								
1954.....	491	38,807	108,509	33,724	78,977	214,870	179,937	394,808
1953 <sup>5</sup> .....	(NA)	41,622	124,575	35,875	86,594	226,132	214,242	440,374
1952 <sup>5</sup> .....	(NA)	37,212	119,874	31,244	78,301	205,660	174,952	380,612
1951 <sup>5</sup> .....	(NA)	36,004	102,840	30,322	66,768	192,498	160,423	352,921
1950 <sup>5</sup> .....	(NA)	37,900	96,703	31,637	66,676	175,125	156,040	331,165
1949 <sup>5</sup> .....	(NA)	34,883	(NA)	29,042	(NA)	153,119	122,905	276,025
1947.....	535	36,611	80,208	31,584	57,791	155,990	121,801	277,791
1939.....	272	23,036	25,147	18,765	15,734	44,313	40,105	84,418
1937.....	215	18,636	18,104	16,385	13,255	38,275	32,514	70,789
1935.....	241	17,890	17,259	15,635	12,036	34,415	32,532	66,947
1933.....	179	15,782	12,138	14,017	9,388	29,057	29,035	58,092
1931.....	204	(NA)	(NA)	13,977	11,496	40,229	31,694	71,923
1929.....	213	15,859	18,680	13,664	12,446	40,767	36,035	76,802
1927.....	222	16,108	17,772	13,778	12,402	41,824	35,394	77,218
1925.....	185	16,984	18,012	14,525	12,394	39,307	37,808	77,115
1923.....	216	19,072	20,489	16,104	13,258	39,632	38,416	78,048
1921.....	173	20,033	19,663	17,084	13,102	36,743	38,857	75,600
1919.....	188	21,653	20,232	18,415	13,082	36,726	38,816	75,542
1914.....	167	23,045	12,245	20,496	7,977	20,964	19,587	40,551
1909.....	138	19,520	9,335	17,564	6,464	17,617	15,640	33,257
1904.....	109	11,852	4,610	10,975	3,600	8,727	6,135	14,862
1899.....	138	13,112	4,610	12,297	3,645	8,094	6,357	14,451
Millinery (S.I.C. 2351):								
1954.....	871	20,235	65,809	18,222	53,667	101,180	71,945	173,125
1953 <sup>5</sup> .....	(NA)	18,985	63,975	16,294	48,550	98,359	69,942	168,301
1952 <sup>5</sup> .....	(NA)	18,180	61,787	15,352	48,105	97,769	74,950	172,719
1951 <sup>5</sup> .....	(NA)	18,842	62,356	16,081	46,217	103,198	77,062	180,260
1950 <sup>5</sup> .....	(NA)	20,925	65,935	17,520	50,041	99,651	87,013	186,664
1949 <sup>5</sup> .....	(NA)	20,316	63,823	16,910	48,892	94,100	75,748	169,848
1947.....	933	20,933	59,566	18,116	46,889	100,863	76,865	177,728
1939 <sup>6</sup> .....	1,026	(NA)	(NA)	24,017	25,840	56,625	47,313	103,938
1937 <sup>8</sup> .....	755	24,254	29,076	21,560	22,921	47,235	41,007	88,242
1935.....	1,033	26,012	31,182	22,770	23,988	48,947	40,042	88,989
1933 <sup>8</sup> .....	834	24,437	23,125	22,574	20,313	42,701	34,646	77,347
1931.....	1,134	(NA)	(NA)	26,612	32,565	72,780	71,795	144,575
1929.....	1,293	37,373	58,613	32,206	42,715	97,603	98,090	195,693
1927 <sup>9</sup> .....	1,148	38,656	60,809	33,311	46,788	106,005	103,490	209,495
Children's dresses (S.I.C. 2361):								
1954.....	764	32,525	78,244	29,410	61,892	127,587	163,912	291,499
1953 <sup>5</sup> .....	(NA)	30,244	73,307	27,050	57,489	134,786	159,659	294,445
1952 <sup>5</sup> .....	(NA)	26,525	64,261	23,802	49,739	102,527	133,313	235,840
1951 <sup>5</sup> .....	(NA)	24,880	62,885	22,126	47,547	102,909	131,079	233,988
1947.....	665	22,456	43,346	20,374	33,953	76,291	98,536	174,827
1939.....	296	16,710	13,952	15,133	10,662	25,537	25,046	50,583
1937 <sup>10</sup> .....	213	(NA)	(NA)	12,759	9,017	19,720	25,383	45,103
Children's coats (S.I.C. 2363):								
1954.....	407	14,399	44,980	12,849	35,598	72,601	99,509	172,110
1947 <sup>10</sup> .....	473	11,008	22,524	9,834	19,411	50,841	63,358	114,199
Children's outerwear, n.e.c. (S.I.C. 2369):								
1954.....	812	30,613	73,079	27,826	58,313	121,863	156,384	278,248
1953 <sup>5</sup> .....	(NA)	25,348	60,576	23,105	48,896	94,520	123,460	217,980
1947 <sup>10</sup> .....	547	14,781	35,084	13,291	25,896	50,645	60,864	111,509

See footnotes at end of table.



Table 1.—GENERAL STATISTICS FOR THE UNITED STATES: 1954 AND EARLIER YEARS—Continued

(For explanation of column captions see Introduction)

Industry and census year	Establishments, number	All employees		Production workers		Value added by manufacture <sup>2</sup>	Cost of materials, etc. <sup>3</sup>	Value of shipments <sup>4</sup>
		Number <sup>1</sup>	Payroll (\$1,000)	Number <sup>1</sup>	Wages (\$1,000)			
Fur goods (S.I.C. 2371):								
1954.....	1,972	9,983	42,833	7,994	33,915	74,755	152,770	227,525
1949.....	(NA)	14,256	59,847	11,802	46,897	95,527	152,808	248,335
1947.....	2,229	16,190	68,571	13,745	57,636	122,821	234,466	357,013
1939.....	2,175	17,329	33,435	13,111	23,403	60,280	107,752	168,032
1937 <sup>8</sup> .....	1,642	16,057	29,012	12,952	21,560	49,260	106,345	155,605
1935.....	2,438	16,215	28,832	12,510	21,040	52,792	90,992	143,784
1933.....	1,463	9,782	13,646	8,210	11,500	30,463	50,061	80,524
1931.....	2,354	(NA)	(NA)	12,358	24,793	62,115	102,634	164,749
1929.....	2,855	19,853	46,088	15,752	33,330	101,486	176,107	277,593
1927 <sup>11</sup> .....	2,756	20,733	47,763	16,640	37,671	104,292	195,323	299,615
1925.....	2,000	20,164	43,716	16,556	35,164	94,950	159,316	254,266
1923.....	1,758	18,276	35,954	14,439	27,923	71,881	126,162	198,043
1921.....	1,707	15,096	28,666	12,052	22,421	54,829	84,537	139,366
1919.....	1,815	17,307	32,142	13,639	24,149	67,541	105,397	173,138
1914.....	1,322	11,564	9,118	9,030	6,335	19,786	23,847	43,633
1909.....	1,241	14,435	10,341	11,927	7,789	24,161	31,777	55,938
1904.....	867	10,342	6,352	9,370	5,123	15,917	21,202	37,119
1899.....	734	8,899	4,933	7,758	3,927	11,618	14,281	25,899

\* Revised.

NA Not available.

<sup>1</sup>For the period 1949-1954, employment figures are based on employment for the payroll periods ended nearest the 15th of March, May, August and November. (However in the case of the "Fur goods" industry, a different method was used for 1954: All employees represent the average of 12 monthly figures, and production workers were calculated by subtracting from the all employees total the average number of nonproduction employees for March, May, August and November.) For 1947, they represent the average of 12 monthly figures. For earlier years, the production worker average was calculated as in 1947, but the figure for all employees represents the sum of the annual average number of production workers and the number of nonproduction workers reported for one payroll period (usually in October).

<sup>2</sup>Value of products less cost of materials, supplies, fuel, electric energy and contract work. See Introduction, "Value Added by Manufacture." For the "Women's and children's underwear" and "Fur goods" industries, 1947 value added by manufacture does not equal the published value of shipments less cost of materials, etc., because an estimated value of production was used in the calculation in place of value of shipments. Since the 1949-1952 estimates were derived from 1947 base totals, the same inequality may exist for these years.

<sup>3</sup>Figures for years prior to 1935 do not include cost of contract work.

<sup>4</sup>For 1954, the figures represent value of production except in the case of "Fur goods" for 1947 where they represent value of shipments. For 1929 and 1947-1953, the figures represent value of shipments except in the case of "Women's and children's underwear," "Children's dresses," "Children's coats" and "Children's outerwear, n.e.c." for 1947 where they represent value of production. For all other years, the figures represent value of production. See Introduction, "Value of Shipments."

<sup>5</sup>The figures for 1949-1953 represent estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period. Estimates with a standard error in excess of 15 percent generally have been omitted from this table.

<sup>6</sup>The figures for 1939 are not entirely comparable with those for earlier years. Value added by manufacture for 1939 on a basis comparable with earlier years was \$56.6 million for "Women's and children's underwear," and \$57.4 million for "Millinery."

<sup>7</sup>"Women's and children's woven underwear" was formerly a part of the discontinued classification "Clothing, women's, n.e.c." Separate figures for years prior to 1935 are, therefore, not available.

<sup>8</sup>For "Millinery" in 1933 and 1937 and for "Fur goods" in 1937, coverage was incomplete.

<sup>9</sup>"Millinery" was formerly a part of the discontinued classification "Millinery and lace goods, n.e.c." Separate figures are, therefore, not available for years prior to 1927.

<sup>10</sup>No comparable figures are available for earlier years.

<sup>11</sup>The figures for 1927 and earlier years are not entirely comparable with those for later years because they include data for sheep-lined coats. For 1927, the value of sheep-lined coats produced was \$11.4 million.

## MANUFACTURES--INDUSTRY STATISTICS

Table 2.—GENERAL STATISTICS BY REGIONS AND STATES: 1964 AND 1947

(For explanation of column captions see Introduction)

Industry, region, and State <sup>1</sup>	1964										1947		
	Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
	Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
Women's and children's underwear (S.I.C. 2341), total..	1,352	767	73,427	176,305	66,885	118,702	140,063	298,385	471,641	770,026	5,431	58,004	229,306
New England.....	78	55	7,886	18,081	7,349	13,755	15,431	26,716	32,621	59,337	314	6,101	21,415
Vermont.....	9	8	846	1,889	800	1,486	1,712	3,100	4,536	7,636	20	(D)	(D)
Connecticut.....	21	13	1,553	3,591	1,450	2,882	3,142	4,497	6,100	10,597	12	1,248	(D)
Middle Atlantic.....	1,012	532	42,405	107,727	38,373	67,057	83,222	184,603	331,560	516,164	2,944	40,767	167,470
New York.....	778	352	24,374	66,399	21,601	38,201	48,835	123,810	256,571	380,382	1,550	22,750	115,785
New Jersey.....	85	54	4,936	12,205	4,488	7,772	9,529	20,188	29,224	49,412	407	5,031	16,560
Pennsylvania.....	149	126	13,094	29,122	12,282	21,083	24,856	40,604	45,765	86,369	985	12,986	35,125
East North Central.....	57	32	3,099	7,950	2,804	4,796	6,067	11,745	15,082	26,827	306	(D)	(D)
Illinois.....	31	13	1,235	4,041	1,061	1,781	2,662	5,347	8,715	14,063	93	1,072	5,042
Michigan.....	10	9	958	2,062	891	1,546	1,769	2,683	2,854	5,538	139	345	(D)
West North Central.....	24	21	2,135	5,088	1,836	3,121	3,616	8,682	13,078	21,761	100	2,276	(D)
South.....	134	104	16,040	32,952	14,816	26,884	27,910	60,135	70,714	130,850	1,549	4,844	14,825
Georgia.....	11	7	944	1,866	873	1,510	1,543	2,699	2,888	5,588	101	58	(D)
Florida.....	4	2	102	193	90	172	171	360	332	693	2	(D)	(D)
Tennessee.....	4	3	460	959	438	811	788	2,020	2,609	4,629	25	237	(D)
Alabama.....	11	11	2,953	5,724	2,748	4,815	5,230	14,471	17,167	31,638	179	266	(D)
Mississippi.....	6	6	763	1,888	718	1,436	1,669	3,352	4,248	7,601	194	(D)	(D)
Texas.....	23	12	836	1,718	744	1,411	1,348	2,536	3,355	5,892	(D)	526	(D)
West.....	47	23	1,859	4,506	1,705	3,087	3,815	6,502	8,583	15,086	215	1,363	5,668
California.....	39	19	1,407	3,647	1,276	2,287	3,023	4,706	7,704	12,410	193	1,126	5,031
"Manufacturers" (S.I.C. 2341, Pt. A), total.....	711	430	46,406	114,676	41,944	74,930	90,582	199,417	286,583	486,000	3,291		
New England.....	39	26	4,824	11,218	4,446	8,141	9,305	17,862	25,511	43,373	197		
Massachusetts.....	25	17	3,464	8,038	3,164	5,646	6,491	12,762	17,956	30,719	186		
Connecticut.....	7	5	582	1,387	540	1,045	1,188	2,193	3,213	5,407	8		
Middle Atlantic.....	479	279	24,217	63,925	21,793	38,692	49,642	110,974	166,927	278,002	1,499		
New York.....	405	220	16,742	44,885	15,072	27,398	35,012	79,729	120,041	199,871	1,022		
New Jersey.....	26	18	1,991	5,258	1,688	2,876	3,580	9,735	14,781	24,517	112		
Pennsylvania.....	48	41	5,483	13,782	5,032	8,417	11,048	21,509	32,104	53,613	365		
East North Central.....	44	26	2,455	6,684	2,187	3,797	4,926	10,032	13,858	23,891	232		
Illinois.....	26	13	1,181	3,888	1,016	1,703	2,561	5,154	7,548	12,703	87		
Michigan.....	5	4	547	1,313	492	916	1,062	1,686	2,827	4,514	78		
West North Central.....	14	12	1,523	3,851	1,270	2,180	2,615	6,145	8,312	14,358	48		
South and West.....	135	87	13,385	28,997	12,245	22,118	24,092	54,402	71,972	126,375	1,312		
Georgia.....	8	5	600	1,293	555	1,052	1,038	1,958	2,865	4,824	56		
Florida.....	4	2	102	193	90	172	171	360	332	693	2		
Tennessee.....	4	3	460	959	438	811	788	2,020	2,609	4,629	25		
"Jobbers" (S.I.C. 2341, Pt. B), total.....	204	42	3,925	14,971	2,738	4,705	6,757	40,184	173,977	214,161	406	(NA)	(NA)
New England.....	7	3	308	787	242	441	540	1,401	6,530	7,931	6		
Middle Atlantic.....	190	37	3,427	13,603	2,342	3,950	5,842	36,019	158,651	194,670	390		
New York.....	176	31	2,161	10,260	1,202	1,858	3,306	29,030	134,259	163,289	277		
New Jersey.....	7	3	697	1,981	636	1,112	1,422	4,399	13,893	18,292	31		
Pennsylvania.....	7	3	568	1,361	503	979	1,113	2,589	10,498	13,088	81		
North Central.....	3	1	81	322	62	127	155	1,301	5,889	7,191	6		
South and West.....	4	1	106	257	90	186	218	1,461	2,904	4,367	3		
"Contractors" (S.I.C. 2341, Pt. C), total.....	437	295	23,095	46,657	22,202	39,066	42,724	58,783	11,080	69,864	1,733		
New England.....	32	26	2,754	6,075	2,659	5,172	5,586	7,452	580	8,032	110		
Middle Atlantic.....	343	216	14,759	30,198	14,236	24,414	27,737	37,509	5,981	43,491	1,053		
New York.....	197	101	5,469	11,253	5,325	8,944	10,516	14,950	2,270	17,221	250		
New Jersey.....	52	33	2,248	4,966	2,164	3,784	4,526	6,053	548	6,602	264		
Pennsylvania.....	94	82	7,042	13,979	6,746	11,686	12,694	16,505	3,162	19,667	538		
North Central.....	20	14	1,174	2,181	1,121	1,813	1,986	3,048	100	3,148	120		
Michigan.....	5	5	410	748	398	630	707	996	27	1,023	61		
South and West.....	42	39	4,406	8,202	4,183	7,665	7,413	10,773	4,419	15,192	448		
Georgia.....	3	2	344	773	317	458	504	741	23	764	45		

See footnotes at end of table.

Table 2.—GENERAL STATISTICS BY REGIONS AND STATES: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Industry, region, and State <sup>1</sup>	1954											1947	
	Establishments, number		All employees		Production workers			Value added by manufacture	Cost of materials, etc.	Value of shipments	Capital expenditures, new	All employees, number	Value added by manufacture
	Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)		(\$1,000)
Corsets and allied garments (S.I.C. 2342), total.....	491	320	38,807	108,509	33,724	60,333	78,977	214,870	179,937	394,808	3,001	36,611	155,990
New England.....	42	31	4,147	12,556	3,620	6,665	9,803	31,144	25,048	56,192	381	4,182	16,843
Connecticut.....	27	20	2,873	8,856	2,482	4,625	6,948	24,409	21,764	46,174	239	2,837	12,807
Middle Atlantic.....	309	195	21,833	61,858	18,841	33,311	44,439	108,120	112,454	220,575	1,347	19,637	80,785
New York.....	229	132	12,826	38,136	10,900	19,204	26,146	67,308	78,466	145,774	833	12,988	57,213
New Jersey.....	53	40	5,171	15,731	4,380	7,858	11,520	29,590	30,393	59,984	306	3,268	15,009
Pennsylvania.....	27	23	3,835	7,990	3,560	6,247	6,772	11,221	3,595	14,817	207	3,381	8,563
East North Central.....	43	32	4,629	13,529	3,887	6,511	8,559	32,024	23,864	55,889	322	(D)	(D)
Illinois.....	29	20	3,178	10,651	2,543	4,348	6,061	22,643	18,659	41,303	264	4,630	23,193
Michigan.....	7	6	712	1,533	642	1,038	1,270	3,733	1,877	5,610	9	1,943	(D)
West North Central.....	5	3	373	661	362	593	605	1,210	785	1,996	22	(D)	(D)
South.....	42	34	5,596	12,996	5,141	9,833	11,197	29,533	8,925	38,459	584	3,099	14,161
Georgia.....	8	6	1,768	5,027	1,685	3,394	4,490	7,963	3,728	11,692	287	608	(D)
Florida.....	5	3	144	360	116	223	264	510	439	950	6	(D)	(D)
West.....	50	25	2,227	6,908	1,870	3,419	4,371	12,837	8,859	21,696	343	1,909	7,128
"Manufacturers" (S.I.C. 2342, Pt. A), total.....	331	205	23,459	70,433	20,001	35,953	49,467	152,224	120,912	273,136	2,207		
New England.....	31	23	3,373	10,680	2,881	5,225	8,107	25,927	20,559	46,487	354		
Connecticut.....	19	15	2,258	7,269	1,898	3,492	5,516	19,769	17,382	37,152	220		
Middle Atlantic.....	204	126	12,432	37,381	10,599	18,656	25,791	66,823	62,763	129,587	857		
New York.....	164	95	9,134	28,182	7,770	13,657	19,436	51,863	48,899	100,763	632		
New Jersey.....	30	25	2,240	6,836	1,947	3,530	4,789	10,761	10,502	21,264	187		
Pennsylvania.....	10	6	1,058	2,363	882	1,468	1,565	4,198	3,361	7,560	37		
North Central.....	31	20	3,294	10,724	2,672	4,544	6,144	28,884	24,540	53,425	173		
Illinois.....	19	12	1,984	8,048	1,457	2,640	3,821	19,208	18,585	37,794	129		
South and West.....	65	36	4,358	11,647	3,846	7,526	9,424	30,588	13,048	43,637	821		
Florida.....	5	3	144	360	116	223	264	510	439	950	6	(NA)	(NA)
"Jobbers" (S.I.C. 2342, Pt. B), total..	27	16	3,008	11,846	1,998	3,715	5,877	30,254	17,861	88,116	257		
New York.....	17	10	1,086	4,350	615	1,145	1,587	8,601	29,172	37,774	117		
All other States.....	10	6	1,922	7,496	1,383	2,570	4,290	21,653	28,689	50,342	140		
"Contractors" (S.I.C. 2342, Pt. C), total..	133	99	12,339	26,229	11,723	20,664	23,632	32,391	1,164	33,555	535		
New York.....	48	27	2,606	5,604	2,515	4,400	5,121	6,843	394	7,237	82		
Pennsylvania.....	17	17	2,777	5,627	2,678	4,779	5,207	7,023	234	7,257	170		
All other States.....	68	55	6,956	14,998	6,530	11,485	13,304	18,525	536	19,061	283		
Millinery (S.I.C. 2351), total.....	871	290	20,235	65,809	18,222	33,577	53,667	101,180	71,945	173,125	434	20,933	100,863
New England.....	39	19	2,569	6,778	2,408	4,719	5,909	9,097	5,685	14,782	33	1,484	5,555
Middle Atlantic.....	686	218	14,117	48,633	12,724	23,159	39,607	76,395	55,930	132,325	332	14,410	75,655
New York.....	644	201	12,753	44,761	11,488	21,054	36,293	69,689	51,670	121,360	306	13,416	71,358
New Jersey.....	20	4	578	1,744	512	872	1,551	3,157	1,592	4,749	6	478	2,046
Pennsylvania.....	22	13	785	2,128	723	1,232	1,762	3,548	2,667	6,216	20	516	2,251
East North Central.....	52	21	1,601	5,195	1,393	2,516	3,963	7,974	4,506	12,481	(D)	2,259	9,014
Ohio.....	5	1	133	329	106	195	199	366	296	662	(D)	175	686
Illinois.....	42	18	1,138	3,900	1,003	1,805	2,999	5,732	3,362	9,095	21	1,681	7,141
West North Central.....	19	8	345	901	288	521	692	1,282	816	2,099	(D)	528	2,268
South.....	34	15	1,068	2,754	959	1,817	2,240	4,317	3,702	8,020	(D)	1,252	3,974
Maryland.....	6	4	249	652	231	449	541	930	915	1,846	5	188	734
West.....	41	9	534	1,551	447	843	1,255	2,113	1,303	3,417	14	1,000	4,397
Children's dresses (S.I.C. 2361), total..	764	442	32,525	78,244	29,410	52,459	61,892	127,587	163,912	291,499	1,451	22,456	76,291
New England.....	25	16	1,088	2,337	1,032	1,853	2,031	3,734	2,363	6,098	27	893	2,238
Massachusetts.....	13	9	676	1,482	640	1,216	1,280	2,635	2,127	4,762	21	552	1,405

See footnotes at end of table.



## MANUFACTURES--INDUSTRY STATISTICS

Table 2.—GENERAL STATISTICS BY REGIONS AND STATES: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Industry, region, and State <sup>1</sup>	1954										1947		
	Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
	Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
Children's dresses (S.I.C. 2361)—Con.													
Middle Atlantic.....	548	343	24,578	62,318	21,959	39,338	48,065	103,645	146,187	249,833	964	18,584	66,572
New York.....	318	164	9,899	28,110	8,509	14,909	19,335	51,066	92,116	143,183	387	7,827	35,235
New Jersey.....	110	83	4,801	11,054	4,515	7,925	9,411	17,546	22,488	40,034	192	3,235	8,466
Pennsylvania.....	120	96	9,878	23,154	8,935	16,504	19,318	35,032	31,582	66,615	385	7,522	22,871
East North Central.....	20	8	514	1,149	479	922	974	2,232	2,036	4,269	21	410	950
West North Central.....	12	4	191	430	176	321	345	628	395	1,024	14	260	555
South.....	85	52	4,590	8,050	4,371	7,585	7,190	11,322	5,843	17,166	360	1,637	3,692
Maryland.....	5	5	443	769	419	680	689	1,056	27	1,083	(D)	(D)	(D)
Virginia.....	8	7	855	1,703	823	1,592	1,581	2,006	308	2,314	(D)	269	(D)
Mountain.....	6	...	32	47	27	43	45	104	65	169	1		
Pacific.....	68	19	1,529	3,912	1,364	2,395	3,239	5,918	7,020	12,939	61	672	2,283
California.....	65	18	1,430	3,599	1,276	2,210	2,990	5,609	6,480	12,089	54		
"Manufacturers" (S.I.C. 2361, Pt. A), total.....	308	138	11,709	28,417	10,486	18,904	22,809	46,833	51,742	98,576	444		
New England.....	10	7	558	1,264	527	1,023	1,076	2,419	2,329	4,749	18		
Middle Atlantic.....	168	88	7,712	19,694	6,806	12,265	15,352	32,975	37,533	70,509	271		
New York.....	109	53	3,524	9,598	3,066	5,403	7,018	16,314	19,186	35,500	130		
New Jersey.....	21	11	941	2,182	860	1,637	1,779	4,149	4,147	8,297	(D)		
Pennsylvania.....	38	24	3,246	7,913	2,879	5,224	6,555	12,511	14,200	26,711	(D)		
North Central.....	24	8	467	998	438	807	893	1,609	1,375	2,985	19		
South.....	49	20	1,627	2,935	1,525	2,667	2,583	4,584	4,024	8,609	81		
West.....	57	15	1,343	3,525	1,188	2,140	2,904	5,244	6,478	11,723	54		
California.....	48	14	1,211	3,166	1,074	1,912	2,610	4,831	5,873	10,704	45		
"Jobbers" (S.I.C. 2361, Pt. B), total..	125	61	4,650	17,494	3,270	5,861	8,909	40,951	110,165	151,117	350	(NA)	(NA)
Middle Atlantic.....	115	57	4,442	16,884	3,108	5,533	8,547	39,112	107,176	146,289	337		
New York.....	95	40	2,561	10,320	1,711	2,822	4,513	24,508	72,478	96,987	167		
New Jersey.....	13	11	646	2,331	534	974	1,498	5,177	17,805	22,983	(D)		
Pennsylvania.....	7	6	1,234	4,232	862	1,736	2,536	9,426	16,892	26,318	(D)		
All other divisions.....	10	4	206	609	161	326	361	1,838	2,987	4,828	12		
"Contractors" (S.I.C. 2361, Pt. C), total..	331	243	16,165	32,332	15,653	27,694	30,173	39,801	2,004	41,806	656		
New England.....	15	9	529	1,073	504	829	955	1,315	34	1,349	9		
Middle Atlantic.....	265	198	12,423	25,739	12,044	21,539	24,164	31,558	1,476	33,035	354		
New York.....	114	71	3,813	8,191	3,730	6,683	7,804	10,243	451	10,695	89		
New Jersey.....	76	61	3,212	6,540	3,121	5,313	6,134	8,219	534	8,754	111		
Pennsylvania.....	75	66	5,397	11,008	5,193	9,542	10,226	13,095	490	13,585	153		
All other divisions.....	51	36	3,212	5,518	3,103	5,324	5,052	6,927	492	7,421	291		
Maryland.....	5	5	443	769	419	680	689	1,056	27	1,083	(D)		
Children's coats (S.I.C. 2363), total.	407	214	14,399	44,980	12,849	22,692	35,598	72,601	99,509	172,110	574	11,008	50,841
New England.....	14	12	895	2,554	821	1,484	2,096	3,412	3,438	6,851	22	551	1,708
Massachusetts.....	8	7	429	1,332	390	718	1,064	2,077	2,736	4,814	10	310	841
Middle Atlantic.....	351	183	11,773	38,060	10,511	18,462	30,144	62,494	88,587	151,082	477	9,510	45,654
New York.....	244	108	6,128	22,209	5,215	9,050	16,591	38,577	62,272	100,849	197	6,608	36,925
New Jersey.....	66	43	2,978	9,295	2,790	4,897	7,885	14,010	15,492	29,502	138	1,468	4,740
Pennsylvania.....	41	32	2,666	6,556	2,506	4,514	5,668	9,906	10,823	20,730	140	1,434	3,989
East North Central.....	6	4	445	1,104	369	596	707	1,439	1,724	3,163	12	285	720
West North Central.....	6	5	501	1,382	414	729	939	2,099	1,979	4,079	12	371	1,676
South.....	8	4	482	951	453	948	866	1,400	1,587	2,988	25	148	383
Pacific.....	22	6	302	929	280	472	845	1,755	2,191	3,947	24	143	700

See footnotes at end of table.

Table 2.—GENERAL STATISTICS BY REGIONS AND STATES: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Industry, region, and State <sup>1</sup>	1954											1947	
	Establishments, number		All employees		Production workers			Value added by manufacture	Cost of materials, etc.	Value of shipments	Capital expenditures, new	All employees, number	Value added by manufacture
	Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)		(\$1,000)
"Manufacturers" (S.I.C. 2363, Pt. A), total.....	160	94	6,728	22,025	5,824	10,578	16,865	35,298	45,036	80,334	260		
New England.....	6	5	356	1,144	313	652	882	1,558	2,721	4,280	(D)		
Middle Atlantic.....	126	75	5,033	17,299	4,372	7,922	13,340	28,235	36,179	64,414	197		
New York.....	96	52	2,906	11,487	2,420	4,349	8,634	17,932	23,863	41,795	80		
New Jersey.....	11	9	691	2,158	613	1,175	1,646	4,093	4,138	8,231	(D)		
Pennsylvania.....	19	14	1,435	3,653	1,338	2,397	3,058	6,209	8,178	14,387	(D)		
North Central.....	8	7	840	2,246	687	1,151	1,457	2,998	3,084	6,082	(D)		
South and West.....	20	7	498	1,336	452	853	1,186	2,504	3,051	5,557	33		
"Jobbers" (S.I.C. 2363, Pt. B), total..	81	16	1,509	6,901	1,016	1,864	3,391	17,825	52,927	70,752	69	(NA)	(NA)
Northeast.....	76	16	1,493	6,841	1,012	1,860	3,382	17,514	51,744	69,258	69		
New York.....	63	12	1,045	4,914	666	1,157	2,400	13,354	37,802	51,157	50		
New Jersey.....	7	2	314	1,424	234	445	660	3,009	11,134	14,143	(D)		
All other regions.....	5	...	15	60	4	4	9	310	1,182	1,493	...		
"Contractors" (S.I.C. 2363, Pt. C), total..	166	104	6,162	16,053	6,007	10,249	15,341	19,478	1,546	21,024	244		
Northeast.....	157	99	5,785	15,330	5,634	9,511	14,636	18,598	1,381	19,980	226		
Massachusetts.....	3	3	193	472	180	285	411	530	26	556	6		
New York.....	85	44	2,176	5,807	2,128	3,544	5,556	7,290	605	7,896	66		
New Jersey.....	48	32	1,973	5,712	1,941	3,276	5,577	6,908	219	7,127	(D)		
All other regions.....	9	5	376	723	372	737	705	879	164	1,044	18		
Children's outerwear, n.e.c. (S.I.C. 2369), total.....	812	394	30,613	73,079	27,826	49,851	58,313	121,863	156,384	278,248	1,818	14,781	50,645
New England.....	42	27	2,526	6,617	2,288	4,232	5,379	12,909	15,240	28,150	89	1,331	3,788
Massachusetts.....	25	17	897	2,174	797	1,437	1,688	4,437	5,804	10,242	24	300	918
Rhode Island.....	4	2	882	2,382	816	1,588	2,061	5,001	5,902	10,903	(D)	(D)	(D)
Connecticut.....	6	4	452	1,540	398	651	1,071	2,311	3,138	5,449	6	142	(D)
Middle Atlantic.....	570	244	16,998	42,849	15,370	27,147	33,613	70,135	100,351	170,487	1,028	8,796	33,484
New York.....	470	188	12,598	32,738	11,241	19,785	25,074	55,394	85,232	140,626	850	6,484	27,193
New Jersey.....	39	22	1,378	3,223	1,287	2,183	2,724	4,203	4,617	8,820	54	851	3,043
Pennsylvania.....	61	34	3,020	6,887	2,840	5,178	5,815	10,538	10,501	21,040	123	1,461	3,248
East North Central.....	30	21	1,939	4,416	1,757	3,189	3,581	7,767	9,216	16,984	123	1,146	4,257
Illinois.....	13	9	887	1,835	774	1,249	1,427	3,425	4,295	7,721	44	547	2,838
West North Central.....	28	19	1,925	4,468	1,714	3,263	3,534	6,884	8,533	15,417	109	775	2,747
Missouri.....	9	6	479	1,048	429	738	774	2,011	2,899	4,911	29	296	(D)
South.....	85	56	5,853	11,650	5,432	9,920	9,561	19,045	18,646	37,692	404	2,003	3,995
Maryland.....	5	4	194	397	185	335	343	584	348	932	(D)	178	529
North Carolina.....	10	9	1,309	2,499	1,214	2,158	2,183	3,634	5,957	9,591	177	...	(D)
Florida.....	8	4	216	618	200	398	474	1,011	929	1,940	15	87	(D)
Mississippi.....	4	3	419	898	394	607	728	1,022	1,227	2,249	34	(D)	(D)
Texas.....	20	11	1,048	2,211	957	1,855	1,681	4,627	4,099	8,727	34	(D)	(D)
West.....	57	27	1,370	3,078	1,263	2,097	2,643	5,120	4,396	9,517	65	730	2,374
"Manufacturers" (S.I.C. 2369, Pt. A), total.....	407	198	18,152	44,272	16,485	30,110	35,464	74,003	89,752	163,755	1,190		
New England.....	19	10	1,413	3,656	1,286	2,371	3,046	7,129	8,510	15,639	59		
Massachusetts.....	12	7	385	877	343	552	678	1,455	1,811	3,267	(D)		
Middle Atlantic.....	240	101	8,365	22,401	7,626	14,069	17,917	35,775	45,687	81,463	638		
New York.....	198	78	5,804	15,937	5,253	9,576	12,641	25,864	31,766	57,630	523		
New Jersey.....	12	9	634	1,690	579	1,123	1,380	2,091	3,777	5,869	27		
Pennsylvania.....	30	14	1,926	4,774	1,793	3,369	3,895	7,819	10,143	17,963	87		
East North Central.....	19	12	1,251	2,839	1,093	1,896	2,125	4,974	6,295	11,270	95	(NA)	(NA)
Illinois.....	9	7	797	1,733	689	1,155	1,338	3,329	4,232	7,561	37		
West North Central.....	20	13	1,528	3,672	1,342	2,595	2,903	5,752	6,830	12,582	71		
South.....	63	41	4,475	9,073	4,116	7,459	7,249	15,896	18,251	34,148	280		
North Carolina.....	7	6	1,021	1,961	935	1,647	1,696	2,986	5,870	8,857	131		
Texas.....	19	11	1,041	2,190	950	1,841	1,661	4,608	4,097	8,706	34		
West.....	46	21	1,119	2,630	1,020	1,718	2,222	4,474	4,177	8,652	44		

See footnotes at end of table.

## MANUFACTURES--INDUSTRY STATISTICS

Table 2.—GENERAL STATISTICS BY REGIONS AND STATES: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Industry, region, and State <sup>1</sup>	1954											1947	
	Establishments, number		All employees		Production workers			Value added by manufacture	Cost of materials, etc.	Value of shipments	Capital expenditures, new	All employees, number	Value added by manufacture
	Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)		(\$1,000)
"Jobbers" (S.I.C. 2369, Pt. B), total..	123	33	2,475	8,806	1,668	2,877	4,209	22,009	64,283	86,292	260		
New England.....	5	4	268	1,076	191	431	538	3,145	6,650	9,795	15		
Middle Atlantic.....	109	26	1,839	6,725	1,151	1,855	2,900	16,446	52,832	69,278	218		
New York.....	105	26	1,820	6,637	1,143	1,839	2,882	16,181	51,996	68,177	(D)		
All other divisions.....	8	3	366	1,004	324	589	768	2,416	4,799	7,218	26		
"Contractors" (S.I.C. 2369, Pt. C), total..	282	163	9,985	20,000	9,672	16,863	18,639	25,851	2,349	28,200	368	(NA)	(NA)
New England.....	17	13	844	1,884	810	1,429	1,794	2,635	80	2,711	14		
Middle Atlantic.....	221	117	6,792	13,722	6,592	11,222	12,795	17,914	1,831	19,746	170		
New York.....	167	84	4,973	10,163	4,845	8,368	9,550	13,348	1,470	14,818	(D)		
All other divisions.....	44	33	2,348	4,392	2,268	4,210	4,048	5,301	436	5,738	181		
North Carolina.....	3	3	287	537	278	510	486	647	86	734	45		
Fur goods (S.I.C. 2371), total.....	1,972	63	9,983	42,833	7,994	13,935	33,915	74,755	152,770	227,525	417	16,190	122,821
New England.....	17	...	69	195	58	98	162	339	478	818	...	194	745
Middle Atlantic.....	1,790	60	9,282	40,336	7,460	12,967	32,093	69,807	145,593	213,399	373	14,777	114,318
New York.....	1,755	60	9,158	39,907	7,360	12,800	31,755	68,934	144,624	213,558	349	14,371	112,707
East North Central.....	81	2	325	1,291	247	476	922	2,877	3,105	4,083	(D)	592	4,788
Illinois.....	60	...	189	719	145	262	524	1,569	2,038	3,116	4	255	2,965
West North Central.....	17	1	124	425	87	156	292	515	967	1,463	(D)	326	1,509
South.....	6	...	22	46	16	29	36	74	187	261	(D)	87	339
West.....	61	...	160	537	124	208	408	1,141	2,437	3,116	18	214	1,142

Note: Detailed figures may not add to the totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies.

NA Not available.

<sup>1</sup>General statistics for some producing States are not shown separately in the table (see INTRODUCTION "Confidentiality of Data for Individual Companies"). Such States are shown below with the number of establishments in each State for 1954 and, in parentheses, the number of employees or the employment-size range for that State for 1954:

S.I.C. 2341, Women's and Children's Underwear: New England—Maine, 2 (20-99); New Hampshire, 1 (1-19); Massachusetts, 1 (500-4,999); Rhode Island, 4 (500-999); East North Central—Ohio, 1 (100-249); Indiana, 1 (100-249); Wisconsin, 5 (100-249); Minnesota, 1 (500-999); Iowa, 2 (100-249); Missouri, 1 (100-249); South—Delaware, 2 (100-249); Maryland, 6 (500-999); Virginia, 10 (1,000-2,499); West Virginia, 1 (100-249); North Carolina, 37 (2,500-4,999); South Carolina, 4 (1,000-2,499); Louisiana, 7 (500-999); Oklahoma, 3 (500-999); Colorado, 1 (20-99); Arizona, 2 (100-249); Utah, 3 (100-249); Washington, 2 (1-19).

S.I.C. 2341, Pt. A, Manufacturers: New England—Maine, 1 (1-19); New Hampshire, 1 (1-19); Vermont, 3 (100-249); Rhode Island, 2 (500-999); East North Central—Ohio, 4 (20-99); Indiana, 5 (250-499); Wisconsin, 4 (100-249); West North Central—Minnesota, 7 (500-999); Iowa, 2 (100-249); Missouri, 5 (500-999); South and West—Delaware, 1 (100-249); Maryland, 1 (100-249); Virginia, 2 (100-249); North Carolina, 25 (3,271); South Carolina, 2 (1,000-2,499); Alabama, 10 (2,500-4,999); Mississippi, 4 (500-999); Louisiana, 5 (500-999); Oklahoma, 3 (500-999); Texas, 22 (500-999); Colorado, 1 (20-99); Arizona, 2 (100-249); Utah, 2 (20-99); Washington, 2 (1-19); California, 38 (1,000-2,499).

S.I.C. 2341, Pt. B, Jobbers: New England—Vermont, 1 (100-249); Massachusetts, 3 (20-99); Connecticut, 3 (20-99); North Central—Illinois, 1 (1-19); Missouri, 1 (500-999); South and West—Maryland, 1 (20-99); South Carolina, 1 (1-19); Louisiana, 1 (1-19); California, 1 (1-19).

S.I.C. 2341, Pt. C, Contractors: New England—Maine, 1 (20-99); Vermont, 5 (250-499); Massachusetts, 13 (1,000-2,499); Rhode Island, 2 (20-99); Connecticut, 11 (500-999); North Central—Ohio, 1 (100-249); Indiana, 1 (1-19); Illinois, 4 (20-99); Wisconsin, 21 (500-999); Missouri, 8 (500-999); South and West—Delaware, 1 (20-99); Maryland, 4 (250-499); Virginia, 8 (1,095); West Virginia, 1 (100-249); North Carolina, 12 (1,000-2,499); South Carolina, 6 (250-499); Alabama, 1 (20-99); Mississippi, 2 (250-499); Louisiana, 1 (1-19); Oklahoma, 1 (100-249); Texas, 1 (1-19); Utah, 1 (100-249).

S.I.C. 2342, Corsets and Allied Garments: New England—Massachusetts, 13 (1,000-2,499); Rhode Island, 2 (1-19); East North Central—Ohio, 2 (20-99); Indiana, 4 (500-999); Wisconsin, 1 (100-249); West North Central—Minnesota, 2 (100-249); Missouri, 2 (20-99); Kansas, 1 (100-249); South—Delaware, 1 (500-999); Maryland, 1 (20-99); District of Columbia, 2 (20-99); Virginia, 1 (100-249); West Virginia, 6 (1,000-2,499); North Carolina, 2 (20-99); South Carolina, 2 (250-499); Kentucky, 1 (20-99); Alabama, 3 (100-249); Arkansas, 1 (100-249); Louisiana, 1 (20-99); Texas, 8 (500-999); West—Utah, 1 (100-249); California, 49 (1,000-2,499).

S.I.C. 2342, Pt. A, Manufacturers: New England—Massachusetts, 10 (1,000-2,499); Rhode Island, 2 (1-19); North Central—Ohio, 2 (20-99); Indiana, 1 (250-499); Michigan, 5 (500-999); Wisconsin, 1 (100-249); Minnesota, 2 (100-249); Missouri, 1 (1-19); South and West—Delaware, 1 (500-999); Maryland, 1 (20-99); District of Columbia, 1 (1-19); West Virginia, 1 (20-99); North Carolina, 2 (20-99); Georgia, 6 (1,000-2,499); Kentucky, 1 (20-99); Texas, 4 (250-499); California, 43 (1,752).

S.I.C. 2342, Pt. B, Jobbers: All Other States—Connecticut, 3 (100-249); New Jersey, 4 (1,549); Illinois, 1 (1-19); California, 2 (100-249).

S.I.C. 2342, Pt. C, Contractors: All Other States—Massachusetts, 3 (100-249); Connecticut, 5 (250-499); New Jersey, 19 (1,382); Indiana, 3 (100-249); Illinois, 9 (1,000-2,499); Michigan, 2 (100-249); Missouri, 1 (20-99); Kansas, 1 (100-249); District of Columbia, 1 (20-99); Virginia, 1 (100-249); West Virginia, 5 (1,350); South Carolina, 2 (250-499); Georgia, 2 (250-499); Alabama, 3 (100-249); Arkansas, 1 (100-249); Louisiana, 1 (20-99); Texas, 4 (250-499); Utah, 1 (100-249); California, 4 (100-249).

S.I.C. 2351, Millinery: New England—Massachusetts, 32 (2,392); Rhode Island, 1 (1-19); Connecticut, 6 (100-249); East North Central—Michigan, 3 (20-99); Wisconsin, 2 (250-499); West North Central—Missouri, 18 (250-499); Kansas, 1 (1-19); South—Virginia, 3 (100-249); Georgia, 3 (100-249); Alabama, 1 (20-99); Texas, 21 (250-499); West—Colorado, 1 (1-19); Washington, 1 (20-99); California, 39 (500-999).

S.I.C. 2361, Children's Dresses: New England—Maine, 2 (20-99); Vermont, 5 (200-249); Connecticut, 5 (250-499); East North Central—Ohio, 2 (100-249); Indiana, 2 (100-249); Illinois, 7 (100-249); Michigan, 4 (20-99); Wisconsin, 5 (20-99); West North Central—Minnesota, 2 (1-19); Iowa, 1 (1-19); Missouri, 7 (100-249); Nebraska, 1 (1-19); Kansas, 1 (1-19); South—Delaware, 2 (20-99); West Virginia, 1 (20-99); North Carolina, 7 (250-499); South Carolina, 4 (500-999); Georgia, 3 (20-99); Florida, 7 (20-99); Kentucky, 1 (100-249); Alabama, 2 (100-249); Arkansas, 2 (1-19); Louisiana, 1 (1-19); Oklahoma, 3 (20-99); Texas, 39 (1,000-2,499); Mountain—Colorado, 1 (1-19); New Mexico, 1 (1-19); Arizona, 2 (1-19); Utah, 2 (1-19); Washington, 2 (1-19); Oregon, 1 (20-99).

Footnotes continued on next page.



## Footnotes for Table 2—MC-23D

- S.I.C. 2361, Pt. A, Manufacturers: New England—Maine, 1 (20-99); Massachusetts, 7 (250-499); Connecticut, 2 (20-99); North Central—Indiana, 1 (20-99); Illinois, 7 (100-249); Michigan, 3 (20-99); Wisconsin, 3 (20-99); Minnesota, 1 (1-19); Iowa, 1 (1-19); Missouri, 6 (100-249); Nebraska, 1 (1-19); Kansas, 1 (1-19); South—Virginia, 1 (20-99); North Carolina, 3 (20-99); South Carolina, 2 (250-499); Georgia, 3 (20-99); Florida, 7 (20-99); Alabama, 1 (100-249); Arkansas, 2 (1-19); Louisiana, 1 (1-19); Oklahoma, 3 (20-99); Texas, 26 (1,033); West—Colorado, 1 (1-19); New Mexico, 1 (1-19); Arizona, 2 (1-19); Utah, 2 (1-19); Washington, 2 (1-19); Oregon, 1 (20-99).
- S.I.C. 2361, Pt. B, Jobbers: All Other Divisions: Ohio, 2 (100-249); Wisconsin, 1 (1-19); North Carolina, 1 (1-19); Texas, 2 (20-99); California, 4 (20-99).
- S.I.C. 2361, Pt. C, Contractors: New England—Maine, 1 (1-19); Vermont, 5 (100-249); Massachusetts, 6 (100-249); Connecticut, 3 (100-249); All Other Divisions—Indiana, 1 (20-99); Michigan, 1 (1-19); Wisconsin, 1 (1-19); Minnesota, 1 (1-19); Missouri, 1 (20-99); Delaware, 2 (20-99); Virginia, 7 (500-999); West Virginia, 1 (20-99); North Carolina, 3 (250-499); South Carolina, 2 (250-499); Kentucky, 1 (100-249); Alabama, 1 (20-99); Texas, 11 (500-999); California, 13 (100-249).
- S.I.C. 2363, Children's Coats: New England—Maine, 2 (20-99); Vermont, 1 (100-249); Connecticut, 3 (250-499); East North Central—Indiana, 1 (20-99); Illinois, 2 (1-19); Michigan, 3 (250-499); West North Central—Minnesota, 4 (250-499); Missouri, 2 (100-249); South—Virginia, 1 (1-19); North Carolina, 1 (100-249); Georgia, 3 (250-499); Florida, 1 (1-19); West South Central—Louisiana, 1 (1-19); Texas, 1 (20-99); Pacific—Washington, 1 (20-99); California, 21 (250-499).
- S.I.C. 2363, Pt. A, Manufacturers: New England—Maine, 1 (1-19); Vermont, 1 (100-249); Massachusetts, 3 (100-249); Connecticut, 1 (20-99); North Central—Indiana, 1 (20-99); Michigan, 2 (250-499); Minnesota, 4 (250-499); Missouri, 1 (100-249); South and West—Virginia, 1 (1-19); Georgia, 2 (100-249); Florida, 1 (1-19); Louisiana, 1 (1-19); Texas, 1 (20-99); California, 14 (100-249).
- S.I.C. 2363, Pt. B, Jobbers: Northeast—Massachusetts, 2 (20-99); Pennsylvania, 4 (20-99); All Other Regions—Illinois, 2 (1-19); California, 3 (1-19).
- S.I.C. 2363, Pt. C, Contractors: Northeast—Maine, 1 (20-99); Connecticut, 2 (250-499); Pennsylvania, 18 (1,148); All Other Regions—Michigan, 1 (20-99); Missouri, 1 (20-99); North Carolina, 1 (100-249); Georgia, 1 (20-99); Washington, 1 (20-99); California, 4 (20-99).
- S.I.C. 2369, Children's Outerwear, n.e.c.: New England—Maine, 3 (100-249); Vermont, 4 (20-99); East North Central—Ohio, 1 (20-99); Indiana, 4 (100-249); Michigan, 8 (500-999); Wisconsin, 4 (100-249); West North Central—Minnesota, 7 (500-999); Iowa, 6 (250-499); Nebraska, 1 (100-249); Kansas, 5 (100-249); South—Delaware, 2 (100-249); Virginia, 7 (500-999); West Virginia, 1 (250-499); South Carolina, 4 (250-499); Georgia, 8 (250-499); Kentucky, 1 (250-499); Tennessee, 1 (1-19); Alabama, 7 (100-249); Arkansas, 3 (20-99); Louisiana, 2 (100-249); Oklahoma, 2 (20-99); West—Colorado, 1 (1-19); Utah, 2 (20-99); Washington, 3 (20-99); California, 51 (1,213).
- S.I.C. 2369, Pt. A, Manufacturers: New England—Maine, 1 (1-19); Rhode Island, 3 (500-999); Connecticut, 3 (100-249); East North Central—Indiana, 3 (100-249); Michigan, 4 (20-99); Wisconsin, 3 (100-249); West North Central—Minnesota, 5 (500-999); Iowa, 5 (250-499); Missouri, 6 (250-499); Kansas, 4 (100-249); South—Delaware, 1 (20-99); Maryland, 3 (20-99); Virginia, 1 (100-249); West Virginia, 1 (250-499); South Carolina, 3 (250-499); Georgia, 6 (250-499); Florida, 7 (100-249); Kentucky, 1 (250-499); Tennessee, 1 (1-19); Alabama, 5 (20-99); Mississippi, 2 (250-499); Arkansas, 2 (1-19); Louisiana, 2 (100-249); Oklahoma, 2 (20-99); West—Colorado, 1 (1-19); Utah, 2 (20-99); Washington, 3 (20-99); California, 40 (500-999).
- S.I.C. 2369, Pt. B, Jobbers: New England—Vermont, 1 (1-19); Massachusetts, 4 (100-249); Connecticut, 1 (20-99); Middle Atlantic—New Jersey, 2 (1-19); Pennsylvania, 2 (1-19); Other Divisions—Illinois, 2 (1-19); Michigan, 1 (100-249); Minnesota, 1 (20-99); Missouri, 2 (20-99); Georgia, 1 (1-19); California, 1 (1-19).
- S.I.C. 2369, Pt. C, Contractors: New England—Maine, 2 (100-249); Vermont, 3 (20-99); Massachusetts, 9 (250-499); Rhode Island, 1 (1-19); Connecticut, 2 (250-499); Middle Atlantic—New Jersey, 25 (500-999); Pennsylvania, 29 (1,000-2,499); Other Divisions—Ohio, 1 (20-99); Indiana, 1 (20-99); Illinois, 2 (20-99); Michigan, 3 (100-249); Wisconsin, 1 (20-99); Minnesota, 1 (20-99); Iowa, 1 (20-99); Missouri, 1 (1-19); Nebraska, 1 (100-249); Kansas, 1 (20-99); Delaware, 1 (20-99); Maryland, 2 (100-249); Virginia, 6 (500-999); South Carolina, 1 (1-19); Georgia, 1 (20-99); Florida, 1 (1-19); Alabama, 2 (20-99); Mississippi, 2 (20-99); Arkansas, 1 (1-19); Texas, 1 (1-19); California, 10 (100-249).
- S.I.C. 2371, Fur Goods: New England—New Hampshire, 2 (1-19); Massachusetts, 8 (20-99); Connecticut, 7 (20-99); Middle Atlantic—New Jersey, 13 (20-99); Pennsylvania, 22 (20-99); East North Central—Ohio, 6 (20-99); Michigan, 3 (20-99); Wisconsin, 12 (20-99); West North Central—Minnesota, 10 (20-99); Missouri, 5 (20-99); North Dakota, 1 (1-19); Nebraska, 1 (1-19); South—Maryland, 3 (1-19); Florida, 2 (1-19); Texas, 1 (1-19); West—Nevada, 1 (1-19); Washington, 1 (1-19); Oregon, 1 (1-19); California, 58 (100-249).

## MANUFACTURES—INDUSTRY STATISTICS

Table 3.—DETAILED STATISTICS FOR THE UNITED STATES: 1954

(For explanation of line captions see Introduction)

Item	Women's and children's underwear (S.I.C. 2341)			
	Total	"Manufacturers" Part A	"Jobbers" Part B	"Contractors" Part C
Primary product specialization ratio <sup>1</sup> .....	95	(NA)	(NA)	(NA)
Coverage ratio <sup>2</sup> .....	85	(NA)	(NA)	(NA)
Number of establishments, total.....	1,352	711	204	437
With 1-19 employees.....	585	281	162	142
With 20-99 employees.....	587	310	37	240
With 100 employees and over.....	180	120	5	55
All employees:				
Number (average for year).....	73,427	46,406	3,925	23,095
Payroll.....\$1,000..	176,305	114,676	14,971	46,657
Production workers:				
Number (average for year).....	66,885	41,944	2,738	22,202
Man-hours.....1,000..	118,702	74,930	4,705	39,066
Wages.....\$1,000..	140,063	90,582	6,757	42,724
Value added by manufacture.....do....	298,385	199,417	40,184	58,783
Cost of materials, etc.....do....	471,641	286,583	173,977	11,080
Value of shipments.....do....	770,026	486,000	214,161	69,864
Value added by resales.....do....	1,509	1,385	108	15
Cost of products bought and resold.....do....	6,526	5,375	1,009	142
Sales of products bought and resold.....do....	8,035	6,760	1,117	157
Total inventories, beginning of year.....do....	103,399	72,927	27,396	3,076
Total inventories, end of year.....do....	95,229	66,481	25,723	3,025
Capital expenditures, new.....do....	5,431	3,291	( <sup>3</sup> )	1,733
Number of employees for selected months:				
March.....	72,292	45,939	3,873	22,480
May.....	70,842	44,770	3,804	22,268
August.....	72,885	46,180	3,969	22,736
November.....	77,689	48,736	4,054	24,899
Cost of materials, fuel, electricity and contract work, total.....\$1,000..	471,641	286,583	173,977	11,080
Materials, parts, containers, and supplies consumed.....do....	406,844	273,722	124,133	9,131
Fuels consumed, total.....do....	143	(NA)	(NA)	(NA)
Electric energy:				
Purchased:				
Quantity.....million kwh..	43	32	1	10
Cost.....\$1,000..	1,336	808	255	273
Cost of contract work.....do....	63,318	12,053	49,589	1,676
Manufacturers' inventories:				
Beginning of year, total.....do....	103,399	72,927	27,396	3,076
Finished products.....do....	43,886	30,743	12,369	774
Work-in-process.....do....	22,146	15,509	5,177	1,460
Materials, supplies, fuel, etc.....do....	37,363	26,673	9,849	841
End of year, total.....do....	95,229	66,481	25,723	3,025
Finished products.....do....	39,334	27,471	11,212	651
Work-in-process.....do....	21,973	15,434	4,944	1,595
Materials, supplies, fuel, etc.....do....	33,918	23,575	9,565	778
Expenditures for plant and equipment, total.....do....	5,960	3,521	( <sup>3</sup> )	2,030
Capital expenditures, new.....do....	5,431	3,291	( <sup>3</sup> )	1,733
New structures and additions to plant.....do....	836	662	( <sup>3</sup> )	( <sup>3</sup> )
New machinery and equipment.....do....	4,595	2,629	( <sup>3</sup> )	1,738
Expenditures for used plant and equipment.....do....	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )

See footnotes at end of table.

Table 3.—DETAILED STATISTICS FOR THE UNITED STATES: 1954—Continued

Item	Corsets and allied garments (S.I.C. 2342)				Millinery (S.I.C. 2351)
	Total	"Manufac- turers" Part A	"Jobbers" Part B	"Contractors" Part C	
Primary product specialization ratio <sup>1</sup> .....	96	(NA)	(NA)	(NA)	99
Coverage ratio <sup>2</sup> .....	95	(NA)	(NA)	(NA)	98
Number of establishments, total.....	491	331	27	133	871
With 1-19 employees.....	171	126	11	34	581
With 20-99 employees.....	195	134	9	52	266
With 100 employees and over.....	125	71	7	47	24
All employees:					
Number (average for year).....	38,807	23,460	3,008	12,339	20,235
Payroll.....\$1,000..	108,509	70,433	11,846	26,229	65,809
Production workers:					
Number (average for year).....	33,724	20,001	1,998	11,723	18,222
Man-hours.....1,000..	60,333	35,953	3,715	20,664	33,577
Wages.....\$1,000..	78,977	49,467	5,877	23,632	53,667
Value added by manufacture.....do....	214,870	152,224	30,254	32,391	101,180
Cost of materials, etc.....do....	179,937	120,912	57,861	1,164	71,945
Value of shipments.....do....	394,808	273,136	88,116	33,555	173,125
Value added by resales.....do....	562	501	61	...	693
Cost of products bought and resold.....do....	1,823	1,309	514	...	1,781
Sales of products bought and resold.....do....	2,385	1,810	575	...	2,474
Total inventories, beginning of year.....do....	58,176	41,551	16,147	( <sup>3</sup> )	10,444
Total inventories, end of year.....do....	58,518	38,387	19,649	( <sup>3</sup> )	9,929
Capital expenditures, new.....do....	3,001	2,207	( <sup>3</sup> )	535	( <sup>3</sup> )
Number of employees for selected months:					
March.....	38,439	23,218	2,949	12,272	24,403
May.....	39,363	23,757	3,047	12,559	16,714
August.....	38,055	23,137	2,969	11,949	21,159
November.....	39,374	23,728	3,068	12,578	18,667
Cost of materials, fuel, electricity and contract work, total.....\$1,000..	179,937	120,912	57,861	1,164	71,945
Materials, parts, containers, and supplies consumed.....do....	137,623	107,324	29,606	857	68,734
Fuels consumed, total.....do....	163	(NA)	(NA)	(NA)	154
Electric energy:					
Purchased:					
Quantity.....million kwh..	33	22	4	7	28
Cost.....\$1,000..	680	406	92	182	540
Cost of contract work.....do....	41,471	13,182	28,163	125	2,517
Manufacturers' inventories:					
Beginning of year, total.....do....	58,176	41,551	16,147	( <sup>3</sup> )	10,444
Finished products.....do....	28,115	19,194	8,758	( <sup>3</sup> )	2,809
Work-in-process.....do....	12,246	8,517	3,562	( <sup>3</sup> )	1,619
Materials, supplies, fuel, etc.....do....	17,813	13,840	3,826	( <sup>3</sup> )	6,016
End of year, total.....do....	58,518	38,387	19,649	( <sup>3</sup> )	9,929
Finished products.....do....	27,381	15,816	11,414	( <sup>3</sup> )	2,629
Work-in-process.....do....	12,159	8,022	3,948	( <sup>3</sup> )	1,544
Materials, supplies, fuel, etc.....do....	18,975	14,548	4,286	( <sup>3</sup> )	5,756
Expenditures for plant and equipment, total.....do....	3,129	2,332	( <sup>3</sup> )	540	( <sup>3</sup> )
Capital expenditures, new.....do....	3,001	2,207	( <sup>3</sup> )	535	( <sup>3</sup> )
New structures and additions to plant.....do....	673	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
New machinery and equipment.....do....	2,328	1,750	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
Expenditures for used plant and equipment.....do....	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )

See footnotes at end of table.



## MANUFACTURES--INDUSTRY STATISTICS

Table 3.—DETAILED STATISTICS FOR THE UNITED STATES: 1954—Continued

Item	Children's dresses (S.I.C. 2361)			
	Total	"Manufacturers" Part A	"Jobbers" Part B	"Contractors" Part C
Primary product specialization ratio <sup>1</sup> .....	95	(NA)	(NA)	(NA)
Coverage ratio <sup>2</sup> .....	93	(NA)	(NA)	(NA)
Number of establishments, total.....	764	308	125	331
With 1-19 employees.....	322	170	64	88
With 20-99 employees.....	374	111	53	210
With 100 employees and over.....	68	27	8	33
All employees:				
Number (average for year).....	32,525	11,709	4,650	16,165
Payroll.....\$1,000..	78,244	28,417	17,494	32,332
Production workers:				
Number (average for year).....	29,410	10,486	3,270	15,653
Man-hours.....1,000..	52,459	18,904	5,861	27,694
Wages.....\$1,000..	61,892	22,809	8,909	30,173
Value added by manufacture.....do....	127,587	46,833	40,951	39,801
Cost of materials, etc.....do....	163,912	51,742	110,165	2,004
Value of shipments.....do....	291,499	98,576	151,117	41,806
Value added by resales.....do....	143	109	24	10
Cost of products bought and resold.....do....	1,179	481	175	522
Sales of products bought and resold.....do....	1,323	590	200	532
Total inventories, beginning of year.....do....	30,464	11,861	17,893	710
Total inventories, end of year.....do....	30,505	11,890	17,944	671
Capital expenditures, new.....do....	1,451	( <sup>3</sup> )	( <sup>3</sup> )	656
Number of employees for selected months:				
March.....	32,948	12,174	4,796	15,978
May.....	31,518	11,148	4,728	15,642
August.....	32,418	11,551	4,638	16,379
November.....	33,216	11,964	4,590	16,662
Cost of materials, fuel, electricity and contract work, total.....\$1,000..	163,912	51,742	110,165	2,004
Materials, parts, containers, and supplies consumed.....do....	117,274	45,977	69,582	1,714
Fuels consumed, total.....do....	25	(NA)	(NA)	(NA)
Electric energy:				
Purchased:				
Quantity.....million kwh..	22	9	10	3
Cost.....\$1,000..	554	201	231	122
Cost of contract work.....do....	46,059	5,564	40,327	168
Manufacturers' inventories:				
Beginning of year, total.....do....	30,464	11,861	17,893	710
Finished products.....do....	10,983	4,626	6,179	( <sup>3</sup> )
Work-in-process.....do....	8,294	2,817	5,216	( <sup>3</sup> )
Materials, supplies, fuel, etc.....do....	11,184	4,417	6,498	( <sup>3</sup> )
End of year, total.....do....	30,505	11,890	17,944	671
Finished products.....do....	10,900	4,425	6,314	( <sup>3</sup> )
Work-in-process.....do....	8,420	2,966	5,207	( <sup>3</sup> )
Materials, supplies, fuel, etc.....do....	11,182	4,498	6,422	( <sup>3</sup> )
Expenditures for plant and equipment, total.....do....	1,548	( <sup>3</sup> )	( <sup>3</sup> )	705
Capital expenditures, new.....do....	1,451	( <sup>3</sup> )	( <sup>3</sup> )	656
New structures and additions to plant.....do....	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
New machinery and equipment.....do....	1,087	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
Expenditures for used plant and equipment.....do....	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )

See footnotes at end of table.

Table 3.—DETAILED STATISTICS FOR THE UNITED STATES: 1954—Continued

Item	Children's coats (S.I.C. 2363)			
	Total	"Manufacturers" Part A	"Jobbers" Part B	"Contractors" Part C
Primary product specialization ratio <sup>1</sup> .....	91	(NA)	(NA)	(NA)
Coverage ratio <sup>2</sup> .....	81	(NA)	(NA)	(NA)
Number of establishments, total.....	407	160	81	166
With 1-19 employees.....	193	66	65	62
With 20-99 employees.....	184	77	14	93
With 100 employees and over.....	30	17	2	11
All employees:				
Number (average for year).....	14,399	6,728	1,509	6,162
Payroll.....\$1,000..	44,980	22,025	6,901	16,053
Production workers:				
Number (average for year).....	12,849	5,824	1,016	6,007
Man-hours.....1,000..	22,692	10,578	1,864	10,249
Wages.....\$1,000..	35,598	16,865	3,391	15,341
Value added by manufacture.....do....	72,601	35,298	17,825	19,478
Cost of materials, etc.....do....	99,509	45,036	52,927	1,546
Value of shipments.....do....	172,110	80,334	70,752	21,024
Value added by resales.....do....	172	123	37	12
Cost of products bought and resold.....do....	1,473	1,273	144	55
Sales of products bought and resold.....do....	1,646	1,397	181	67
Total inventories, beginning of year.....do....	18,400	9,542	8,384	( <sup>3</sup> )
Total inventories, end of year.....do....	15,906	8,582	6,854	( <sup>3</sup> )
Capital expenditures, new.....do....	574	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
Number of employees for selected months:				
March.....	14,830	6,844	1,591	6,395
May.....	11,774	5,581	1,311	4,882
August.....	17,132	7,987	1,692	7,453
November.....	13,863	6,500	1,443	5,920
Cost of materials, fuel, electricity and contract work, total.....\$1,000..	99,509	45,036	52,927	1,546
Materials, parts, containers, and supplies consumed.....do....	73,230	38,677	33,500	1,079
Fuels consumed, total.....do....	25	(NA)	(NA)	(NA)
Electric energy:				
Purchased:				
Quantity.....million kwh..	9	2	6	1
Cost.....\$1,000..	346	170	134	42
Cost of contract work.....do....	25,908	6,189	19,293	425
Manufacturers' inventories:				
Beginning of year, total.....do....	18,400	9,542	8,384	( <sup>3</sup> )
Finished products.....do....	6,251	3,264	2,839	( <sup>3</sup> )
Work-in-process.....do....	2,216	1,022	1,088	( <sup>3</sup> )
Materials, supplies, fuel, etc.....do....	9,931	5,256	4,456	( <sup>3</sup> )
End of year, total.....do....	15,906	8,582	6,854	( <sup>3</sup> )
Finished products.....do....	5,581	3,095	2,341	( <sup>3</sup> )
Work-in-process.....do....	2,116	1,020	969	( <sup>3</sup> )
Materials, supplies, fuel, etc.....do....	8,207	4,467	3,542	( <sup>3</sup> )
Expenditures for plant and equipment, total.....do....	636	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
Capital expenditures, new.....do....	574	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
New structures and additions to plant.....do....	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
New machinery and equipment.....do....	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
Expenditures for used plant and equipment.....do....	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )

See footnotes at end of table.

## MANUFACTURES--INDUSTRY STATISTICS

Table 3.—DETAILED STATISTICS FOR THE UNITED STATES: 1954—Continued

Item	Children's outerwear, n.e.c. (S.I.C. 2369)						Fur goods (S.I.C. 2371)
	Total	"Manufacturers" Part A		"Jobbers" Part B		"Contractors" Part C	
		All estab- lish- ments	Establish- ments with 90% or more primary prod- uct special- ization	All estab- lish- ments	Establish- ments with 90% or more primary prod- uct special- ization		
Primary product specialization ratio <sup>1</sup> .....	78	(NA)	xxx	(NA)	xxx	(NA)	99
Coverage ratio <sup>2</sup> .....	62	(NA)	xxx	(NA)	xxx	(NA)	100
Number of establishments, total.....	812	407	258	123	72	282	1,972
With 1-19 employees.....	418	209	157	90	58	119	1,909
With 20-99 employees.....	326	149	83	29	12	148	62
With 100 employees and over.....	68	49	18	4	2	15	1
All employees:							
Number (average for year).....	30,613	18,152	7,548	2,475	1,051	9,985	9,983
Payroll.....\$1,000..	73,079	44,272	18,305	8,806	3,825	20,000	42,833
Production workers:							
Number (average for year).....	27,826	16,485	6,794	1,668	660	9,672	7,994
Man-hours.....1,000..	49,851	30,110	12,397	2,877	1,101	16,863	13,935
Wages.....\$1,000..	58,313	35,464	14,644	4,209	1,621	18,639	33,915
Value added by manufacture.....do....	121,863	74,003	29,882	22,009	10,300	25,851	74,755
Cost of materials, etc.....do....	156,384	89,752	33,831	64,283	27,830	2,349	152,770
Value of shipments.....do....	278,248	163,755	63,713	86,292	38,130	28,200	227,525
Value added by resales.....do....	1,119	1,043	368	75	68	...	1,952
Cost of products bought and resold.....do....	7,072	6,153	1,540	917	874	1	8,870
Sales of products bought and resold.....do....	8,191	7,197	1,909	992	942	1	10,822
Total inventories, beginning of year.....do....	39,838	27,045	9,759	12,076	6,027	717	39,392
Total inventories, end of year.....do....	37,226	25,392	9,680	11,200	5,636	634	37,845
Capital expenditures, new.....do....	1,818	1,190	721	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
Number of employees for selected months:							
March.....	30,696	18,267	7,233	2,464	1,049	9,965	8,315
May.....	29,891	17,678	7,473	2,377	989	9,836	9,289
August.....	30,486	18,112	7,526	2,459	1,019	9,915	10,825
November.....	31,382	18,556	7,961	2,600	1,147	10,226	11,505
Cost of materials, fuel, electricity and contract work, total.....\$1,000..	156,384	89,752	33,831	64,283	27,830	2,349	152,770
Materials, parts, containers, and supplies consumed,do...	124,209	80,959	30,472	41,262	17,979	2,074	148,849
Fuels consumed, total.....do....	85	(NA)	(NA)	(NA)	(NA)	(NA)	77
Electric energy:							
Purchased:							
Quantity.....million kwh..	86	76	37	6	3	4	31
Cost.....\$1,000..	1,299	1,061	861	151	76	87	737
Cost of contract work.....do....	30,791	7,732	2,498	22,870	9,775	188	3,107
Manufacturers' inventories:							
Beginning of year, total.....do....	39,838	27,045	9,759	12,076	6,027	717	39,392
Finished products.....do....	19,119	12,490	4,319	6,354	3,474	( <sup>3</sup> )	24,618
Work-in-process.....do....	6,103	4,139	1,495	1,835	967	( <sup>3</sup> )	4,649
Materials, supplies, fuel, etc.....do....	14,612	10,415	3,944	3,885	1,586	( <sup>3</sup> )	10,124
End of year, total.....do....	37,226	25,392	9,680	11,200	5,636	634	37,845
Finished products.....do....	16,726	10,716	4,079	5,784	3,295	( <sup>3</sup> )	23,393
Work-in-process.....do....	6,218	4,398	1,538	1,685	875	( <sup>3</sup> )	5,010
Materials, supplies, fuel, etc.....do....	14,280	10,278	4,063	3,729	1,465	( <sup>3</sup> )	9,441
Expenditures for plant and equipment, total.....do....	2,122	1,395	852	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
Capital expenditures, new.....do....	1,818	1,190	721	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
New structures and additions to plant.....do....	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
New machinery and equipment.....do....	1,495	946	541	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
Expenditures for used plant and equipment.....do....	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )

Note: Detailed figures may not add to the totals because of independent rounding.

xxx Not applicable.

NA Not available.

<sup>1</sup>The specialization ratio compares the given industry's shipments of its primary products to its total shipments of all products. (The primary products are listed in Tables 5B and 6A). Columns containing totals for establishments with 90% or more primary product specialization are shown only for those industries having a primary product specialization of less than 90%. Plant specialization data are not shown for Industry 2369 as a whole since specialization ratios for contractors were not computed. Such ratios would not be meaningful since they could relate to only a minor portion of the contractors' total activity, that is, production on own account from materials owned by them, and would not be representative of the activity of these establishments as a whole.

<sup>2</sup>The coverage ratio measures the extent to which the total shipments of products primary to the given industry are shipped by establishments classified in that industry.

<sup>3</sup>Less than \$500 thousand.



Table 4.—SELECTED STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR THE UNITED STATES: 1954

(Value figures in thousands of dollars. For explanation of line captions see Introduction. Data which cannot be shown without disclosing information for individual companies have been combined with figures for other size classes. A (D) appears in the column where the figure has been omitted and the combined figure is underlined and shown in the size-class to the left)

Ind. code	Industry and item	Total, all establishments	Establishments with an average of—									
			1-4 employees	5-9 employees	10-19 employees	20-49 employees	50-99 employees	100-249 employees	250-499 employees	500-999 employees	1,000-2,499 employees	2,500 employees and over
2341	Women's & children's underwear:											
	Number of establishments..	1,352	193	162	230	372	215	134	36	8	2	...
	Number of employees.....	73,427	500	1,215	3,444	12,297	15,222	20,548	12,797	<u>7,401</u>	(D)	...
	Value added by manufacture	298,385	4,831	8,854	21,157	48,889	57,058	76,370	52,749	<u>28,474</u>	(D)	...
2341 Pt.A	"Manufacturers:"											
	Number of establishments..	711	95	73	113	191	119	83	28	7	2	...
	Number of employees.....	46,406	238	557	1,702	6,289	8,417	12,563	9,748	<u>6,889</u>	(D)	...
	Value added by manufacture	199,417	1,754	2,397	7,780	25,715	35,710	54,640	44,034	<u>27,386</u>	(D)	...
2341 Pt.B	"Jobbers:"											
	Number of establishments..	204	69	50	43	27	10	3	2	...	...	...
	Number of employees.....	3,925	173	360	628	775	716	<u>1,271</u>	(D)	...	...	...
	Value added by manufacture	40,184	2,818	5,613	10,335	8,749	6,370	<u>6,296</u>	(D)	...	...	...
2341 Pt.C	"Contractors:"											
	Number of establishments..	437	29	39	74	154	86	48	6	1	...	...
	Number of employees.....	23,095	89	297	1,113	5,233	6,089	<u>10,273</u>	(D)	(D)	...	...
	Value added by manufacture	58,783	258	844	3,041	14,425	14,977	<u>25,236</u>	(D)	(D)	...	...
2342	Corsets & allied garments:											
	Number of establishments..	491	76	36	59	120	75	92	24	8	1	...
	Number of employees.....	38,807	<u>1,338</u>	(D)	(D)	3,877	5,507	13,902	7,540	<u>6,641</u>	(D)	...
	Value added by manufacture	214,870	<u>5,897</u>	(D)	(D)	17,064	24,409	63,306	40,813	<u>63,379</u>	(D)	...
2342 Pt.A	"Manufacturers:"											
	Number of establishments..	331	59	25	42	90	44	51	15	5	...	...
	Number of employees.....	23,459	134	182	633	2,869	3,176	7,985	<u>8,475</u>	(D)	...	...
	Value added by manufacture	152,224	519	892	2,993	13,046	16,766	41,669	<u>76,338</u>	(D)	...	...
2342 Pt.B	"Jobbers:"											
	Number of establishments..	27	7	1	3	5	4	5	...	1	1	...
	Number of employees.....	3,008	<u>22</u>	(D)	41	169	298	<u>2,475</u>	...	(D)	(D)	...
	Value added by manufacture	30,254	<u>252</u>	(D)	380	1,474	2,736	<u>25,411</u>	...	(D)	(D)	...
2342 Pt.C	"Contractors:"											
	Number of establishments..	133	10	10	14	25	27	36	9	2	...	...
	Number of employees.....	12,339	<u>323</u>	(D)	(D)	838	2,032	<u>9,145</u>	(D)	(D)	...	...
	Value added by manufacture	32,391	<u>861</u>	(D)	(D)	2,544	4,907	<u>24,080</u>	(D)	(D)	...	...
2351	Millinery:											
	Number of establishments..	871	227	158	196	196	70	19	4	1	...	...
	Number of employees.....	20,235	576	1,143	2,829	6,191	4,801	2,732	<u>1,960</u>	(D)	...	...
	Value added by manufacture	101,180	3,670	6,531	13,628	32,058	25,452	13,189	<u>6,650</u>	(D)	...	...
2361	Children's dresses:											
	Number of establishments..	764	116	70	136	253	121	56	9	3	...	...
	Number of employees.....	32,525	289	517	2,008	8,000	8,773	8,217	<u>4,718</u>	(D)	...	...
	Value added by manufacture	127,587	3,482	3,441	8,636	30,644	33,734	28,156	<u>19,490</u>	(D)	...	...
2361 Pt.A	"Manufacturers:"											
	Number of establishments..	308	73	39	58	64	47	22	4	1	...	...
	Number of employees.....	11,709	167	290	840	1,955	3,480	3,158	<u>1,817</u>	(D)	...	...
	Value added by manufacture	46,833	594	1,618	3,215	8,804	14,889	10,660	<u>7,051</u>	(D)	...	...
2361 Pt.B	"Jobbers:"											
	Number of establishments..	125	30	15	19	36	17	6	1	1	...	...
	Number of employees.....	4,650	77	111	286	1,224	1,192	<u>1,756</u>	(D)	(D)	...	...
	Value added by manufacture	40,951	2,777	1,413	3,181	9,850	8,346	<u>15,381</u>	(D)	(D)	...	...
2361 Pt.C	"Contractors:"											
	Number of establishments..	331	13	16	59	<u>153</u>	57	28	4	1	...	...
	Number of employees.....	16,165	44	116	881	4,820	4,099	<u>6,203</u>	(D)	(D)	...	...
	Value added by manufacture	39,801	110	409	2,240	<u>11,989</u>	10,498	<u>14,553</u>	(D)	(D)	...	...
2363	Children's coats:											
	Number of establishments..	407	49	51	93	127	57	28	2	...	...	...
	Number of employees.....	14,399	121	366	1,347	4,181	3,956	<u>4,426</u>	(D)	...	...	...
	Value added by manufacture	72,601	1,306	3,274	8,511	18,918	20,104	<u>20,485</u>	(D)	...	...	...
2363 Pt.A	"Manufacturers:"											
	Number of establishments..	160	21	17	28	49	28	15	2	...	...	...
	Number of employees.....	6,728	46	122	422	1,673	1,918	<u>2,545</u>	(D)	...	...	...
	Value added by manufacture	35,298	241	516	2,215	10,136	10,300	<u>11,888</u>	(D)	...	...	...
2363 Pt.B	"Jobbers:"											
	Number of establishments..	81	22	24	19	7	7	2	...	...	...	...
	Number of employees.....	1,509	58	172	270	209	799	(D)	...	...	...	...
	Value added by manufacture	17,825	991	2,474	4,066	1,489	<u>8,802</u>	(D)	...	...	...	...

## MANUFACTURES--INDUSTRY STATISTICS

Table 4.--SELECTED STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR THE UNITED STATES: 1954--Continued

Ind. code	Industry and item	Total, all establishments	Establishments with an average of—									
			1-4 em-employees	5-9 em-employees	10-19 em-employees	20-49 em-employees	50-99 em-employees	100-249 employees	250-499 employees	500-999 employees	1,000-2,499 employees	2,500 employees and over
2363 Pt.C	"Contractors:" Number of establishments.. Number of employees..... Value added by manufacture	166 6,162 19,478	6 17 73	10 72 283	46 655 2,229	71 2,298 7,292	22 <u>3,119</u> <u>9,597</u>	11 (D) (D)	...	...	...	...
2369	Children's outerwear, nec.: Number of establishments.. Number of employees..... Value added by manufacture	812 30,613 121,863	145 353 2,604	123 894 4,744	150 2,184 10,448	220 6,973 26,440	106 7,381 26,458	55 7,720 31,870	11 <u>5,106</u> <u>19,297</u>	2 (D) (D)	...	...
2369 Pt.A	"Manufacturers:" Number of establishments.. Number of employees..... Value added by manufacture	407 18,152 74,003	79 182 768	52 371 1,635	78 1,105 4,454	98 3,164 13,489	51 3,545 13,756	38 5,207 21,800	9 <u>4,575</u> <u>18,098</u>	2 (D) (D)	...	...
2369 Pt.B	"Jobbers:" Number of establishments.. Number of employees..... Value added by manufacture	123 2,475 22,009	47 117 1,648	26 193 2,210	17 233 3,821	18 576 4,654	11 <u>1,354</u> <u>9,674</u>	4 (D) (D)	...	...	...	...
2369 Pt.C	"Contractors:" Number of establishments.. Number of employees..... Value added by manufacture	282 9,985 25,851	19 53 187	45 329 898	55 845 2,173	104 3,231 8,296	44 <u>5,525</u> <u>14,293</u>	13 (D) (D)	2 (D) (D)	...	...	...
2371	Fur goods: Number of establishments.. Number of employees..... Value added by manufacture	1,972 9,983 74,755	1,401 3,189 24,403	353 2,443 17,448	155 2,068 16,627	54 1,617 11,947	8 <u>664</u> <u>4,328</u>	1 (D) (D)	...	...	...	...

Note: Detailed figures may not add to the totals because of independent rounding.

Table 5A.--INDUSTRY-PRODUCT ANALYSIS--SUMMARY OF INDUSTRY AND PRIMARY PRODUCT SHIPMENTS, SPECIALIZATION RATIOS AND COVERAGE RATIOS FOR THE UNITED STATES: 1954 AND 1947

Industry code	Industry and census year	Value of shipments					Value of primary products shipped				
		Total	Primary products	Secondary products	Miscellaneous receipts	Primary product specialization ratio <sup>1</sup>	Total (made in all industries)	Made in this industry	Made in other industries	Coverage ratio <sup>2</sup>	
Col. B Col. E+C (Percent)	Col. F Col. G (Percent)										
(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(D)	(E)	(F)	(G)	(H)	(I)		
2341	Women's and children's underwear.....1954..	770,026	675,116	37,134	57,776	95	798,924	675,116	123,808	85	
	.....1947..	575,679	505,891	24,387	45,401	95	645,384	505,891	139,493	78	
2342	Corsets and allied garments..1954..	394,808	335,144	15,771	44,293	96	351,258	335,144	16,114	95	
	.....1947..	277,791	249,969	14,640	13,182	94	260,596	249,969	10,627	96	
2351	Millinery.....1954..	173,125	167,582	1,307	4,236	99	170,169	167,582	2,587	98	
	.....1947..	177,728	173,563	2,275	1,889	99	176,217	173,516	3,001	98	
2361	Children's dresses.....1954..	291,499	234,050	13,490	43,959	95	251,238	234,050	17,188	93	
	.....1947..	174,827	142,075	10,968	21,784	93	155,424	142,075	13,349	91	
2363	Children's coats.....1954..	172,110	136,281	13,530	22,299	91	167,538	136,281	31,257	81	
	.....1947..	114,199	92,190	8,607	13,402	91	105,980	92,190	13,791	87	
2364	Children's outerwear, n.e.c..1954..	278,248	194,521	34,173	29,556	78	312,840	194,521	118,319	62	
	.....1947..	111,509	(NA)	(NA)	(NA)	(NA)	254,488	(NA)	(NA)	(NA)	
2371	Fur goods.....1954..	227,525	214,871	1,354	11,219	99	215,536	214,952	584	100	
	.....1947..	357,013	343,206	1,523	12,204	100	343,378	343,286	92	100	

NA Not available.

<sup>1</sup>The specialization ratio compares the given industry's shipments of its primary products to its total shipments of all products. (The primary products are listed in Tables 5B and 6A.)<sup>2</sup>The coverage ratio measures the extent to which the total shipments of products primary to the given industry are shipped by establishments classified in that industry.

Table 5B.--INDUSTRY-PRODUCT ANALYSIS--SHIPMENTS BY PRODUCT CLASS AND INDUSTRY, FOR THE UNITED STATES: 1954

(In thousands of dollars. The first column shows the total value of shipments of the specified industry divided among: (a) products classified in the industry (primary products), (b) products classified in other industries (secondary products) and (c) miscellaneous receipts. The value of shipments of the primary products of the specified industry reported by establishments not classified in that industry is shown under the caption "Other Industries." Industries accounting for significant amounts of the primary products listed are shown in separate columns provided that the figures for individual companies are not thereby disclosed. The last column shows the total value of shipments of the primary products of the industry by all manufacturing industries)

Prod. class code	Women's and children's underwear industry	Women's and children's underwear (S.I.C. 2341)	Knit underwear mills (S.I.C. 2254)	Other industries	All industries
	Total shipments and receipts of the industry.....	770,026	xxx	xxx	xxx
	Primary products.....	675,116	83,520	40,288	798,924
23411	Women's and children's underwear.....	452,581	56,522	25,689	534,792
23412	Women's and children's nightwear.....	202,696	26,559	13,872	243,127
23410	Women's and children's underwear, not specified by kind.....	19,839	439	727	21,005
	Secondary products.....	37,134	xxx	xxx	xxx
22532	Knit outerwear sport shirts.....	2,310	xxx	xxx	xxx
23212	Men's and boys' nightwear.....	3,054	xxx	xxx	xxx
23220	Men's and boys' underwear.....	4,240	xxx	xxx	xxx
23421	Brassieres.....	3,687	xxx	xxx	xxx
23690	Children's outerwear, n.e.c.....	8,183	xxx	xxx	xxx
23841	Robes and dressing gowns, except children's.....	2,436	xxx	xxx	xxx
23842	Breakfast coats, housecoats, and lounging pajamas.....	2,377	xxx	xxx	xxx
	Other secondary products.....	10,647	xxx	xxx	xxx
	Miscellaneous receipts.....	57,776	xxx	xxx	xxx
	Contract and commission work.....	57,207	xxx	xxx	xxx
	Scrap and salable refuse.....	569	xxx	xxx	xxx
Prod. class code	Corsets and allied garments industry	Corsets and allied garments (S.I.C. 2342)	Other industries	All industries	
	Total shipments and receipts of the industry.....	394,808	xxx	xxx	
	Primary products.....	335,144	16,114	351,258	
23421	Brassieres.....	185,216	4,645	189,861	
23422	Corsets, girdles, and garter belts.....	121,717	11,097	132,814	
23423	Combinations, maternity corsets, and accessories.....	25,612	372	25,984	
23420	Corsets and allied garments, not specified by kind.....	2,599	...	2,599	
	Secondary products.....	15,371	xxx	xxx	
22533	Swimwear.....	2,282	xxx	xxx	
23411	Women's and children's underwear.....	2,275	xxx	xxx	
	Other secondary products.....	10,814	xxx	xxx	
	Miscellaneous receipts.....	44,293	xxx	xxx	
	Contract and commission work.....	43,926	xxx	xxx	
	Scrap and salable refuse.....	367	xxx	xxx	
Prod. class code	Millinery industry	Millinery (S.I.C. 2351)	Other industries	All industries	
	Total shipments and receipts of the industry.....	173,125	xxx	xxx	
23510	Millinery.....	167,582	2,587	170,169	
	Secondary products.....	1,307	xxx	xxx	
	Miscellaneous receipts (contract and commission work).....	4,236	xxx	xxx	
Prod. class code	Children's dress industry	Children's dresses (S.I.C. 2361)	Children's outerwear, n.e.c. (S.I.C. 2369)	Other industries	All industries
	Total shipments and receipts of the industry.....	291,499	xxx	xxx	xxx
23610	Girls' and children's dresses and blouses.....	234,050	8,771	8,417	251,238
	Secondary products.....	13,490	xxx	xxx	xxx
23690	Children's outerwear, n.e.c.....	8,038	xxx	xxx	xxx
	Other secondary products.....	5,452	xxx	xxx	xxx
	Miscellaneous receipts.....	43,959	xxx	xxx	xxx
	Contract and commission work.....	43,830	xxx	xxx	xxx
	Scrap and salable refuse.....	129	xxx	xxx	xxx

See footnotes at end of table.



## MANUFACTURES—INDUSTRY STATISTICS

Table 5B.—INDUSTRY-PRODUCT ANALYSIS—SHIPMENTS BY PRODUCT CLASS AND INDUSTRY, FOR THE UNITED STATES: 1954—Continued

Prod. class code	Children's coat industry	Children's coats (S.I.C. 2363)	Other industries	All industries
	Total shipments and receipts of the industry.....	172,110	xxx	xxx
23630	Girls', children's, and infants' coats.....	136,281	<sup>2</sup> 31,257	167,538
	Secondary products.....	13,530	xxx	xxx
23690	Children's outerwear, n.e.c.....	4,482	xxx	xxx
	Other secondary products.....	9,048	xxx	xxx
	Miscellaneous receipts.....	22,299	xxx	xxx
	Contract and commission work.....	22,195	xxx	xxx
	Scrap and salable refuse.....	104	xxx	xxx
Prod. class code	Children's outerwear, n.e.c., industry	Children's outerwear, n.e.c. (S.I.C. 2369)	Other industries	All industries
	Total shipments and receipts of the industry.....	278,248	xxx	xxx
	Primary products.....	194,521	118,319	312,840
23690	Children's outerwear, n.e.c.....	157,941	<sup>3</sup> 63,733	221,674
22531pt	Children's knit sweaters, jackets, jerseys, and pullovers.....	<sup>4</sup> 5,542	<sup>5</sup> 37,799	43,341
22532pt	Children's knit outerwear sport shirts.....	420,611	<sup>5</sup> 12,770	33,381
22533pt	Children's swimwear and athletic shorts.....	<sup>4</sup> 10,427	<sup>5</sup> 4,017	14,444
	Secondary products.....	54,171	xxx	xxx
23211	Men's and boys' woven dress and sport shirts.....	4,368	xxx	xxx
23270	Men's and boys' separate trousers, except work.....	2,315	xxx	xxx
23291	Men's and boys' work clothing except work shirts.....	4,876	xxx	xxx
23293	Men's and boys' outerwear, n.e.c.....	2,424	xxx	xxx
23390	Women's, misses', and juniors' outerwear, n.e.c.....	5,562	xxx	xxx
23412	Women's and children's nightwear.....	2,371	xxx	xxx
23610	Girls' and children's dresses and blouses.....	8,771	xxx	xxx
23630	Girls', children's, and infants' coats.....	16,334	xxx	xxx
	Other secondary products.....	7,150	xxx	xxx
	Miscellaneous receipts.....	29,556	xxx	xxx
	Contract and commission work.....	29,356	xxx	xxx
	Scrap and salable refuse.....	200	xxx	xxx
Prod. class code	Fur goods industry	Fur goods (S.I.C. 2371)	Other industries	All industries
	Total shipments and receipts of the industry.....	227,525	xxx	xxx
23710	Fur apparel.....	214,952	584	215,536
	Secondary products.....	1,354	xxx	xxx
	Miscellaneous receipts.....	11,219	xxx	xxx
	Contract and commission work.....	6,554	xxx	xxx
	Repair work.....	2,682	xxx	xxx
	Scrap and salable refuse.....	1,983	xxx	xxx

xxx Not applicable.

<sup>1</sup>Of this figure 59 percent consists of the following product classes: 23924, Other housefurnishings; 30995, Other rubber products. For a description of the content of these product classes, see Table 6A of the respective Census reports for Industries 2392 and 3099.<sup>2</sup>Includes shipments (in thousands of dollars) by the following industries: \$5,762 by Industry 2337, Women's Suits, Coats, and Skirts; and \$16,334 by Industry 2369, Children's Outerwear, N.E.C.<sup>3</sup>Includes shipments (in thousands of dollars) by the following industries: \$9,902 by Industry 2253, Knit Outerwear Mills; \$17,297 by Industry 2329, Men's and Boys' Clothing, N.E.C.; \$6,366 by Industry 2339, Women's Outerwear, N.E.C.; \$8,183 by Industry 2341, Women's and Children's Underwear; and \$8,038 by Industry 2361, Children's Dresses.<sup>4</sup>Includes a negligible amount of men's and women's garments.<sup>5</sup>Excludes a negligible amount of children's garments.

## WOMEN'S AND CHILDREN'S UNDERGARMENTS; MILLINERY; CHILDREN'S OUTERWEAR; FUR GOODS

23D-21

Table 6A.--QUANTITY AND VALUE OF PRODUCTS SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, FOR THE UNITED STATES: 1954 AND 1947

Product code	Product	Garments cut				
		1954			1947	
		Total		Cuttings of garments on contract (quantity)	Quantity	Sales value
		Quantity (1,000 dozen)	Sales value (\$1,000)		(1,000 dozen)	(\$1,000)
2341---	Women's and children's underwear and nightwear, total.....	xxx	798,924	xxx	xxx	645,384
23411	Women's, misses', children's and infants' underwear.....	xxx	534,792	xxx	xxx	398,907
	Made from woven fabrics:					
	Women's, misses', and juniors':					
2341111	Slips and gertrudes.....	6,119	110,904	944	9,317	206,849
2341115	Petticoats and half-slips.....	2,200	47,101	251	376	10,257
2341117	Panties, drawers, and bloomers.....	341	3,101	(NA)	(NA)	(1)
	Girls' and teen-age girls' (sizes 2-16):					
2341121	Slips, gertrudes, half-slips, and petticoats.....	1,982	28,850	459	1,131	9,312
2341126	Panties, drawers, and bloomers.....	838	3,153	242	1,243	3,555
2341127	Toddler's and infants' slips and gertrudes (sizes 0-3)	253	1,310	25	260	1,387
2341129	Women's, misses', children's and infants' camisoles...	19	191	3	(NA)	(1)
	Made from circular knit cotton and/or wool fabrics:					
	Women's, misses', and juniors':					
	Panties and bloomers:					
2341131	Tuckstitch.....	644	3,660	...	2,104	210,404
2341132	Other than tuckstitch.....	1,211	6,186	...	2,299	210,555
2341133	Vests, undershirts and stepins.....	634	2,735	5	(2)	(2)
2341134	Union suits.....	198	2,276	...	529	5,727
	Girls' and children's (sizes 2-16):					
2341136	Panties and bloomers.....	4,650	11,852	133	3,824	11,972
2341137	Vests and undershirts.....	1,165	3,318	...		
2341138	Union suits including waist suits.....	17	120	...	552	3,843
	Infants' underwear:					
2341141	Vests, shirts, and bands.....	3,139	9,777	58	3,942	13,429
2341142	Panties.....	2,308	5,798	59	2,736	7,203
	Made from circular knit silk, rayon, nylon, and other man-made fibers:					
	Women's, misses', and juniors':					
2341151	Panties and bloomers.....	8,291	29,906	953	8,599	38,415
2341152	Vests, undershirts and stepins.....	323	1,956	...		
2341153	Slips and gertrudes.....	418	8,178	148		
2341157	Petticoats and half-slips.....	185	3,382	32	384	4,649
2341159	Other underwear.....	(3)	(3)	(3)	(3)	(3)
	Girls', children's, and infants':					
2341161	Panties and bloomers.....	2,004	5,893	...	1,330	4,754
2341163	Vests and undershirts.....	39	160	...		
2341169	Other underwear.....	346	3,459	328	333	3,366
	Made from warp knit fabrics:					
	Women's, misses', and juniors':					
	Panties and bloomers					
2341171	Chiefly nylon.....	3,800	30,193	468	5,453	36,528
2341172	Chiefly rayon and acetate.....	11,089	43,441	1,861		
	Vests, undershirts, and stepins:					
2341173	Chiefly nylon.....	85	790	2	757	16,177
2341174	Chiefly rayon and acetate.....	411	2,518	8		
	Slips and gertrudes:					
2341175	Chiefly nylon.....	2,619	82,490	438	837	3,298
2341176	Chiefly rayon and acetate.....	381	6,302	94		
	Petticoats and half-slips:					
2341177	Chiefly nylon.....	1,512	40,491	239	424	4,227
2341178	Chiefly rayon and acetate.....	312	4,305	131		
	Girls', children's, and infants':					
2341181	Panties and bloomers.....	3,377	11,660	264	(NA)	(1)
2341185	Other warp knit underwear.....	566	7,544	22		
2341189	Other garments made from knit fabrics.....	xxx	73	...		
2341198	Women's, misses', children's and infants' other underwear...	19	155	...	(NA)	(1)
2341100	Women's, misses', children's, and infants' underwear; not specified by kind.....	xxx	14,564	xxx	(NA)	...
23412	Women's, misses', children's, and infants' nightwear.....	xxx	243,127	xxx	9,301	219,936
	Made from woven fabrics:					
	Women's, misses', and juniors':					
2341211	Nightgowns.....	2,413	55,440	508	3,005	90,174
2341213	Sleeping pajamas.....	2,080	51,780	845	1,337	41,567
2341215	Bed jackets and shoulderettes.....	98	2,563	...	187	56,536
2341217	Negligees.....	(NA)	13,510	(NA)	167	15,321

See footnotes at end of table.

## MANUFACTURES--INDUSTRY STATISTICS

Table CA.—QUANTITY AND VALUE OF PRODUCTS SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, FOR THE UNITED STATES: 1954 AND 1947--Continued

Product code	Product	Garments cut					
		1954		1947			
		Total		Cuttings of garments on contract (quantity)	Quantity	Sales value	
		Quantity	Sales value				
		(1,000 dozen)	(\$1,000)	(1,000 dozen)	(1,000 dozen)	(\$1,000)	
2341----	Women's and children's underwear and nightwear--Continued						
23412	Women's, misses', children's, and infants' nightwear--Continued						
	Made from woven fabrics:						
	Girls' and teen-age girls' (sizes 8-16):						
2341221	Nightgowns.....	114	1,884	19	44	857	
2341223	Sleeping pajamas.....	496	8,788	80	303	5,279	
	Children's (sizes 2-8):						
2341231	Nightgowns.....	93	1,399	25	95	1,191	
2341235	Sleeping pajamas.....	642	8,866	230	762	9,049	
	Toddlers' and infants' (sizes 1-4):						
2341241	Nightgowns and kimonos.....	308	2,004	13	6785	63,884	
2341245	Sleeping pajamas.....	275	2,950	101	265	3,433	
	Made from knit fabrics including bed jackets:						
2341251	Bed jackets and shoulderettes.....	50	1,841	11	(NA)	(NA)	
	Women's, misses', and juniors' nightwear made from circular knit fabrics:						
2341261	Chiefly cotton and/or wool.....	272	5,609	3	7978	714,386	
2341265	Chiefly silk, rayon, and other man-made fibers.....	239	4,165	...	7367	78,524	
2341267	Girls', children's, and infants' circular knit nightwear from silk, rayon, and other man-made fibers.....	29	451	...	9	121	
	Women's, misses', and juniors' nightwear made from warp knit fabrics:						
2341271	Chiefly nylon.....	744	37,519	95	595	16,279	
2341273	Chiefly rayon and acetate.....	635	12,218	190			
2341279	All other fibers.....	103	2,316	...			
	Children's and infants' nightwear made from circular cotton and/or wool knit fabrics (sizes 0-8):						
2341281	Heavyweight sleeping garments made with feet.....	1,094	14,735	...	7402	73,335	
2341289	Other nightwear, including gowns and kimonos.....	1,010	10,335	15			
2341200	Women's, misses', children's, and infants' nightwear, not specified by kind.....	xxx	4,754	xxx	xxx	...	
2341000	Women's, misses', children's, and infants' underwear and nightwear, not specified by kind.....	xxx	21,005	\$1,184	xxx	\$26,541	
2342----	Corsets and allied garments, total.....	xxx	351,258	xxx	xxx	260,596	
2342111	Brassieres and bandeaux.....	13,187	189,861	1,451	9,408	115,945	
23422	Corsets, girdles, roll-ons, and garter belts.....	xxx	132,814	...	xxx	103,156	
2342211	Corsets (back-laced and front-laced).....	150	8,394	...	309	14,559	
2342231	Girdles (front-clasp, side-hooked, and zipper).....	1,960	71,861	146	1,453	57,066	
2342251	Roll-ons.....	1,518	42,632	68	1,103	24,578	
2342271	Garter belts.....	635	8,423	...	865	6,953	
2342200	Corsets, girdles, roll-ons, and garter belts, not specified by kind.....	xxx	1,504	xxx	xxx	xxx	
23423	Combinations and maternity corsets, and corset accessories.....	xxx	25,984	xxx	xxx	36,124	
2342311	Combinations and one-piece garments.....	255	17,096	28	398	25,314	
2342331	Surgical and maternity corsets and combinations.....	25	1,060	...	142	6,815	
2342351	Corset accessories (clasps, stays, etc.).....	xxx	7,769	...	xxx	3,995	
2342300	Combinations and maternity corsets, and corset accessories, not specified by kind.....	xxx	59	xxx	xxx	...	
2342000	Corsets and allied garments, not specified by kind.....	xxx	2,499	\$345	xxx	5,371	
		1954		1947			
		Total production		Hats made from purchased hat bodies		total shipments including interplant transfers	
		Quantity	Sales value	Quantity	Sales value	Quantity	Sales value
		(1,000 dozen)	(\$1,000)	(1,000 dozen)	(\$1,000)	(1,000 dozen)	(\$1,000)
2351----	Millinery (trimmed hats made from purchased hat bodies or other millinery materials) total.....	xxx	170,169	xxx	xxx	xxx	176,517
	Felt body:						
2351011	Fur felt.....	791	36,451	687	30,334	}	}
2351013	Wool felt.....	826	16,577	687	14,771		
	Straw body:						
2351031	Sewed braid.....	1,220	34,377	673	21,266	}	}
2351033	Other.....	551	14,096	268	7,715		
2351098	Other materials.....	160	31,416	609	12,760		
2351000	Millinery, not specified by kind.....	xxx	37,052	xxx	xxx		

See footnotes at end of table.



Table 6A.--QUANTITY AND VALUE OF PRODUCTS SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, FOR THE UNITED STATES: 1954 AND 1947--Continued

Product code	Product	Garments out				
		1954		1947		
		Total		Cuttings of garments on contract (quantity)	Quantity	Sales value
		Quantity	Sales value			
		(1,000 dozen)	(\$1,000)	(1,000 dozen)	(1,000 dozen)	(\$1,000)
2361---	Girls', children's, and infants' dresses, blouses, waists and shirts, total.....	xxx	251,238	xxx	xxx	155,424
	Dresses:					
2361011	Teen-age girls' (sizes 10-16).....	507	13,419	72	1,983	62,796
2361013	Girls' (sizes 7-14).....	2,240	67,897	283		
2361015	Children's (sizes 2-6X).....	3,186	81,544	748	1,681	39,949
2361017	Toddlers' (sizes 1-3).....	1,033	22,357	178	1,797	29,268
2361019	Infants' (sizes 0-1).....	844	11,968	56		
	Blouses, blousesettes, waists, and shirts (except knit shirts):					
2361031	Girls' and teen-age girls' (sizes 7-16).....	1,105	20,911	199	556	10,804
2361051	Children's and infants' (sizes 1-6X).....	1,550	19,925	139	348	5,708
2361000	Dresses, blouses, waists and shirts, not specified by kind.....	xxx	13,217	8668	xxx	6,899
2363---	Girls', children's, and infants' coats, total.....	xxx	167,538	xxx	xxx	105,981
	Coat-and-legging sets, including coat-and-snow pants sets:					
2363011	Girls' and teen-age girls' (sizes 7-16).....	18	3,090	(NA)	30	3,615
2363015	Children's (sizes 2-6X for girls', 2-8 for boys').....	149	13,395	45	99	12,506
2363017	Toddlers' and infants' (sizes 0-4).....	66	5,825	13	102	8,929
	Coats:					
2363021	Teen-age girls' (sizes 10-16).....	82	13,357	11	226	26,825
2363023	Girls' (sizes 7-14).....	264	37,416	64		
2363025	Children's (sizes 2-6X for girls' 2-8 for boys').....	212	22,747	48	136	11,754
2363027	Toddlers' and infants' (sizes 0-4).....	113	8,392	14	114	7,712
	Ski and snow suits:					
2363031	Girls' and teen-age girls' (sizes 7-16).....	18	1,957	1	33	3,411
2363033	Children's (size 2-8).....	145	12,759	9	96	9,029
2363035	Toddlers' (sizes 1-4).....	76	6,063	5	78	6,716
2363037	Infants' (sizes 0-2).....	35	2,577	2		
2363041	Ski and snow pants and leggings (sizes 1-16).....	58	1,764	(NA)	79	3,748
2363051	Girls', teen-age girls', and children's jackets, except leather (sizes 2-16).....	485	18,286	203	73	2,956
	Suits, excluding ski, snow, slack, and uniform suits:					
2363071	Girls' and teen-age girls' (sizes 7-16).....	65	5,918	102	71	5,571
2363073	Girls' (sizes 6X and under).....	70	3,287	xxx	37	2,030
2363075	Little boys', excluding wash suits (sizes 6X and under).....	113	4,201	5	(NA)	(NA)
2363000	Girls', children's and infants' coats, snow suits, and coat-and-legging sets, not specified by kind.....	xxx	6,504	81,373	xxx	1,179
2369---	Girls', children's, and infants' outerwear, n.e.c., total.....	xxx	312,840	xxx	xxx	194,488
2253---	Sweaters, jackets, jerseys, pullovers and sacques.....	xxx	43,341	xxx	xxx	38,454
	Girls' and teen-age girls' (sizes 7-16):					
2253111	All wool.....	149	3,817	52	340	7,840
2253155	All nylon.....	228	5,551	178		
2253157	Other yarns.....	267	8,482	210		
	Children's (sizes 2-8):					
2253163	All wool.....	194	4,329	102	1,753	30,614
2253167	Other yarns.....	543	10,830	202		
	Infants' (sizes 0-3):					
2253171	All wool.....	183	2,986	96	xxx	17,610
2253175	Other yarns.....	452	7,346	314		
2253211	Knit outerwear sport shirts.....	xxx	33,381	xxx	xxx	17,610
2253241	Girls' and teen-age girls' (sizes 7-16).....	394	4,235	72	(NA)	(NA)
2253251	Children's and infants' (sizes 1-6X).....	3,936	29,146	537	2,732	17,610
2253301	Swimwear.....	xxx	4,444	xxx	xxx	17,610
	Girls' and teen-age girls' (sizes 7-16):					
2253341	Knit bathing suits.....	50	1,088	112	63	17,610
2253345	Woven fabric bathing suits.....	307	3,152	27	10109	17,610
	Children's and infants' (sizes 1-8):					
2253351	Knit swimwear and trunks.....	86	962	112	87	17,610
2253355	Woven fabric swimwear and trunks.....	250	4,261	92	(10)	(10)
23690	Girls', children's, and infants' outerwear, n.e.c.....	xxx	12,174	xxx	xxx	17,610
2369015	Aprons (except rubber, plastic and rubberized fabric).....	133	712	131	(NA)	17,610
	Dungarees and jeans:					
2369021	Girls' and teen-age girls' (sizes 7-16).....	(NA)	9,463	114	(NA)	(NA)
2369023	Children's (sizes 2-8).....	1,392	18,341	222	(NA)	(NA)

See footnotes at end of table.

Table 6A.--QUANTITY AND VALUE OF PRODUCTS SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, FOR THE UNITED STATES: 1954 AND 1947--Continued

Product code	Product	Garments cut				
		1954			1947	
		Total		Cuttings of garments on contract (quantity)	Quantity	Sales value
		Quantity	Sales value			
		(1,000 dozen)	(\$1,000)	(1,000 dozen)	(1,000 dozen)	(\$1,000)
2369--- 23690	Girls', children's, and infants' outerwear, n.e.c.--Continued Girls', children's, and infants' outerwear, n.e.c.--Continued Slacks:					
2369024	Girls' and teen-age girls' slacks (sizes 7-16).....	148	3,288	12	201	4,064
2369025	Children's slacks, including dress shorts (sizes 2-6X)...	919	15,440	111	102	1,963
2369027	Slack suits, girls', teen-age girls', and children's (sizes 2-16).....	117	2,789	13	119	3,723
2369041	Neckwear, including mufflers and scarfs.....	118	719	...	(NA)	(NA)
	Playsuits, sunsuits, playshorts, wash suits, overalls, and coveralls, except dungarees and jeans:					
2369051	Girls' and teen-age girls' play garments, woven fabric (sizes 7-16).....	1,126	14,536	145	<sup>11</sup> 2,436	<sup>11</sup> 39,186
2369052	Children's and infants' overalls, knit fabric (sizes 0-8).....	(NA)	6,201	22	(NA)	( <sup>9</sup> )
2369053	Children's, play garments of woven fabric, excluding wash suits (sizes 2-8).....	2,888	31,548	211	( <sup>11</sup> )	( <sup>11</sup> )
2369054	Children's and infants' play garments, pantie suits, knit fabric (sizes 0-8).....	381	5,632	9	447	6,079
2369055	Toddlers' play garments of woven fabric, excluding wash suits (sizes 1-4).....	761	9,900	14	<sup>12</sup> 919	<sup>12</sup> 14,385
2369056	Creepers and rompers, including crawler-type overalls and coveralls, woven fabric (sizes 0-2).....	1,122	16,105	54	299	4,865
2369057	Infants' creepers and rompers, knit fabric (sizes 0-3)...	667	8,905	36	496	5,660
2369058	Wash suits of woven fabrics, toddlers (sizes 1-4).....	342	6,044	23	329	5,362
2369064	Sacques (sizes 0-3) woven fabrics.....	95	837	19	(NA)	( <sup>9</sup> )
	Children's and infants' headwear:					
2369065	Woven fabric.....	862	6,791	16	(NA)	( <sup>9</sup> )
2369067	Knit fabric.....	521	4,651	17	516	3,472
	Skirts:					
2369071	Girls' and teen-age girls' (sizes 7-16).....	763	21,896	58	405	13,142
2369073	Children's and toddlers' (sizes 1-6X).....	262	6,061	14	185	4,860
	Robes, including bathrobes, lounging robes, dressing gowns, beach robes, and kimonos, woven fabric:					
2369081	Girls' and teen-age girls', excluding tufted (sizes 7-16)	30	1,002	18	(NA)	(NA)
2369083	Children's and infants' robes, excluding tufted (sizes 0-8).....	171	6,343	49	(NA)	(NA)
2369085	Girls', teen-age girls', and children's tufted robes.....	78	1,743	1	(NA)	(NA)
2369087	Infants' kimonos (size 0-1).....	446	1,729	86	(NA)	(NA)
2369098	Other outerwear.....	xxx	4,067	...	(NA)	<sup>9</sup> 27,002
2369000	Girls', children's, and infants' outerwear, n.e.c., not specified by kind.....	xxx	16,991	<sup>8</sup> 3,215	xxx	xxx
2371---	Fur coats, capes, jackets, neckpieces, and other fur goods..	xxx	215,536	...	xxx	343,378

xxx Not applicable.

NA Not available.

<sup>1</sup>Products 2341117 and 2341129 included with 2341000.<sup>2</sup>Product 2341133 distributed between 2341131 and 2341132.<sup>3</sup>Product 2341159 combined with 2341169.<sup>4</sup>Girls', children's and infants' warp knit nightwear is included.<sup>5</sup>Represents bed jackets only.<sup>6</sup>Represents nightgowns only, size 0-1.<sup>7</sup>Children's (but not infants) nightwear made from circular knit fabrics are included with women's, misses', and juniors' nightwear made from circular knit fabrics.<sup>8</sup>In thousands of dollars; represents receipts for contract cuttings of garments not specified by kind.<sup>9</sup>Products 2253241, 2369052, 2369064, 2369065 included with 2369098.<sup>10</sup>Product 2253355 combined with 2253345.<sup>11</sup>Product 2369053 combined with 2369051.<sup>12</sup>Includes infants' play garments.

Table 6B.—QUANTITY AND SALES VALUE OF WOMEN'S AND CHILDREN'S SELECTED GARMENTS BY FACTORY WHOLESALE PRICE AND PRINCIPAL FIBER: 1954

Product code	Garment and factory wholesale price	Total		Cotton		Rayon and acetate		Wool		Silk	
		Quantity (1,000 doz.)	Value (\$1,000)	Quantity (1,000 doz.)	Value (\$1,000)	Quantity (1,000 doz.)	Value (\$1,000)	Quantity (1,000 doz.)	Value (\$1,000)	Quantity (1,000 doz.)	Value (\$1,000)
2341111	Women's, misses', and junior's woven slips and gerturdes, total.....	6,119	110,904	2,823	43,763	1,829	35,065	(D)	(D)	12	543
	Under \$9.50.....	767	6,000	346	2,801	350	2,668	...	...	...	...
	\$9.50-\$11.49.....	519	5,293	501	5,118	(D)	(D)	...	...	...	...
	\$11.50-\$16.49.....	1,585	21,996	1,118	15,335	383	5,401	(D)	(D)	...	...
	\$16.50-\$22.49.....	783	14,546	323	5,662	351	6,719	...	...	2	47
	\$22.50-\$34.49.....	1,537	39,170	458	11,657	646	16,697	...	...	...	...
	\$34.50 and over.....	244	10,819	74	3,176	83	3,421	...	...	9	491
	Price not specified.....	682	13,018	...	...	...	...	...	...	...	...
2341115	Women's, misses', and junior's petti-coats and half-slips, total.....	2,200	47,101	809	13,461	372	6,175	( <sup>2</sup> )	19	4	274
2341121	Girls' and teen-age girls' slips and gerturdes, half-slips and petticoats, total.....	1,982	28,850	1,186	14,434	118	1,886	40	627	...	...
	Under \$5.50.....	79	523	69	307	(D)	(D)	(D)	(D)	...	...
	\$5.50-\$7.49.....	55	477	(D)	(D)	...	...	(D)	(D)	...	...
	\$7.50-\$9.49.....	329	2,811	263	2,241	(D)	(D)	(D)	(D)	...	...
	\$9.50-\$11.49.....	424	4,211	311	3,099	...	...	25	230	...	...
	\$11.50-\$16.49.....	557	8,217	327	4,693	(D)	(D)	...	...	...	...
	\$16.50 and over.....	456	11,335	159	3,735	40	1,125	...	...	...	...
	Price not specified.....	77	1,245	...	...	...	...	...	...	...	...
2341126	Girls' and teen-age girls' (sizes 2-16) woven panties, drawers, and bloomers, total.....	838	3,153	273	1,233	448	881	...	...	( <sup>2</sup> )	1
2341211	Women's, misses', and junior's woven nightgowns, total.....	2,413	55,440	1,763	37,611	227	6,096	7	117	23	758
	Under \$16.50.....	627	9,152	517	7,761	46	720	7	109	...	...
	\$16.50-\$22.49.....	773	15,245	588	11,469	26	578	...	...	(D)	(D)
	\$22.50-\$28.49.....	436	10,072	347	8,141	53	1,176	...	...	(D)	(D)
	\$28.50-\$34.49.....	366	11,165	253	7,728	62	1,905	...	...	18	563
	\$34.50-\$48.49.....	147	6,267	50	2,076	37	1,596	(D)	(D)	(D)	(D)
	\$48.50 and over.....	47	3,159	6	417	1	113	...	...	3	151
	Price not specified.....	14	321	...	...	...	...	...	...	...	...
2341213	Women's, misses', and junior's sleeping pajamas, total.....	2,080	51,780	1,540	36,558	369	10,267	10	173	1	59
	Under \$16.50.....	192	2,607	182	2,459	( <sup>2</sup> )	8	(D)	(D)	...	...
	\$16.50-\$22.49.....	473	9,588	409	8,388	57	1,058	(D)	(D)	...	...
	\$22.50-\$28.49.....	731	17,225	568	13,473	158	3,651	...	...	...	...
	\$28.50-\$34.49.....	517	15,528	311	9,504	87	2,669	...	...	...	...
	\$34.50-\$48.49.....	128	5,057	66	2,550	47	1,938	...	...	(D)	(D)
	\$48.50 and over.....	27	1,495	2	175	17	932	(D)	(D)	(D)	(D)
	Price not specified.....	10	237	...	...	...	...	...	...	...	...
2341215	Women's, misses' and junior's woven bed jackets and shoulderettes, total.....	98	2,563	21	543	25	702	( <sup>2</sup> )	8	( <sup>2</sup> )	3
2341221	Girls' and teen-age girls' woven nightgowns (sizes 8-16), total.....	114	1,884	103	1,670	...	...	( <sup>2</sup> )	1	...	...
2341223	Girls' and teen-age girls' woven sleeping pajamas, total.....	496	8,788	477	8,348	7	205	2	32	...	...
	Under \$16.50.....	215	2,854	212	2,806	(D)	(D)	2	32	...	...
	\$16.50-\$22.49.....	185	3,422	178	3,309	...	...	...	...	...	...
	\$22.50 and over.....	96	2,494	87	2,222	(D)	(D)	...	...	...	...
	Price not specified.....	...	...	...	...	...	...	...	...	...	...
2341231	Children's woven nightgowns (sizes 2-8), total.....	93	1,399	80	1,193	3	50	...	...	...	...
2341235	Children's woven sleeping pajamas (sizes 2-8), total.....	642	8,866	622	8,488	7	160	(D)	(D)	...	...
	Under \$9.50.....	121	957	119	934	...	...	...	...	...	...
	\$9.50-\$11.49.....	67	771	67	771	...	...	...	...	...	...
	\$11.50-\$16.49.....	303	4,128	295	4,013	(D)	(D)	(D)	(D)	...	...
	\$16.50 and over.....	150	2,996	140	2,762	(D)	(D)	...	...	...	...
	Price not specified.....	...	...	...	...	...	...	...	...	...	...
2341241	Toddlers' and infants' woven nightgowns and kimonos, (sizes 1-4), total.....	308	2,004	185	1,130	(D)	(D)	...	...	...	...
2341245	Toddlers' and infants' woven sleeping pajamas, (sizes 1-4), total.....	275	2,950	267	2,839	(D)	(D)	(D)	(D)	...	...
	Under \$11.50.....	156	1,260	155	1,251	...	...	...	...	...	...
	\$11.50-\$16.49.....	108	1,491	101	1,410	(D)	(D)	(D)	(D)	...	...
	\$16.50 and over.....	10	184	(D)	(D)	...	...	...	...	...	...
	Price not specified.....	( <sup>2</sup> )	7	...	...	...	...	...	...	...	...

See footnotes at end of table.



Table 6B.—QUANTITY AND SALES VALUE OF WOMEN'S AND CHILDREN'S SELECTED GARMENTS BY FACTORY WHOLESALE PRICE AND PRINCIPAL FIBER: 1954—Continued

Product code	Garment and factory wholesale price	Nylon		Linen		Polyester and acrylic fibers		Fiber not specified <sup>1</sup>	
		Quantity (1,000 doz.)	Value (\$1,000)	Quantity (1,000 doz.)	Value (\$1,000)	Quantity (1,000 doz.)	Value (\$1,000)	Quantity (1,000 doz.)	Value (\$1,000)
2341111	Women's, misses', and junior's woven slips and gertrudes, total.....	642	16,105	...	...	(D)	(D)	762	15,429
	Under \$9.50.....	(D)	(D)	...	...	(D)	(D)	10	80
	\$9.50-\$11.49.....	(D)	(D)	...	...	...	...	...	...
	\$11.50-\$16.49.....	(D)	(D)	...	...	...	...	20	307
	\$16.50-\$22.49.....	98	1,992	...	...	...	...	7	126
	\$22.50-\$34.49.....	393	9,914	...	...	3	103	34	799
	\$34.50 and over.....	70	3,447	...	...	(D)	(D)	4	212
	Price not specified.....	...	...	...	...	...	...	682	13,018
2341115	Women's, misses', and junior's petti-coats and half-slips, total.....	763	22,232	...	...	1	30	249	4,910
2341121	Girls' and teen-age girls' slips and gertrudes, half-slips and petticoats, total.....	600	11,186	...	...	...	...	35	716
	Under \$5.50.....	(D)	(D)	...	...	...	...	...	...
	\$5.50-\$7.49.....	...	...	...	...	...	...	...	...
	\$7.50-\$9.49.....	(D)	(D)	...	...	...	...	...	...
	\$9.50-\$11.49.....	88	882	...	...	...	...	...	...
	\$11.50-\$16.49.....	204	3,162	...	...	...	...	6	94
	\$16.50 and over.....	251	6,383	...	...	...	...	3	92
	Price not specified.....	(D)	(D)	...	...	...	...	(D)	(D)
2341126	Girls' and teen-age girls' (sizes 2-16) woven panties, drawers, and bloomers, total.....	1	4	...	...	...	...	115	1,033
2341211	Women's, misses', and junior's woven nightgowns, total.....	278	8,900	...	...	1	21	112	1,936
	Under \$16.50.....	(D)	(D)	...	...	(D)	(D)	55	553
	\$16.50-\$22.49.....	155	3,140	...	...	(D)	(D)	(D)	(D)
	\$22.50-\$28.49.....	(D)	(D)	...	...	...	...	22	506
	\$28.50-\$34.49.....	16	524	...	...	(D)	(D)	(D)	(D)
	\$34.50-\$48.49.....	57	2,496	...	...	(D)	(D)	1	54
	\$48.50 and over.....	36	2,478	...	...	...	...	...	...
	Price not specified.....	...	...	...	...	...	...	14	321
2341213	Women's, misses', and junior's sleeping pajamas, total.....	81	2,223	...	...	10	346	66	2,152
	Under \$16.50.....	...	...	...	...	...	...	(D)	(D)
	\$16.50-\$22.49.....	(D)	(D)	...	...	...	...	4	94
	\$22.50-\$28.49.....	(D)	(D)	...	...	...	...	(D)	(D)
	\$28.50-\$34.49.....	61	1,341	...	...	(D)	(D)	(D)	(D)
	\$34.50-\$48.49.....	12	491	...	...	(D)	(D)	(D)	(D)
	\$48.50 and over.....	5	353	...	...	(D)	(D)	...	...
	Price not specified.....	...	...	...	...	...	...	10	237
2341215	Women's, misses', and junior's woven bed jackets and shoulderettes, total.....	10	397	...	...	(2)	4	40	905
2341221	Girls' and teen-age girls' woven nightgowns (sizes 8-16), total.....	1	37	...	...	...	...	9	174
2341223	Girls' and teen-age girls' woven sleeping pajamas, total.....	2	73	...	...	...	...	7	129
	Under \$16.50.....	...	...	...	...	...	...	(D)	(D)
	\$16.50-\$22.49.....	...	...	...	...	...	...	6	113
	\$22.50 and over.....	2	72	...	...	...	...	(D)	(D)
	Price not specified.....	...	...	...	...	...	...	...	...
2341231	Children's woven nightgowns (sizes 2-8), total.....	(2)	9	...	...	...	...	9	145
2341235	Children's woven sleeping pajamas (sizes 2-8), total.....	(D)	(D)	...	...	...	...	10	156
	Under \$9.50.....	...	...	...	...	...	...	2	23
	\$9.50-\$11.49.....	...	...	...	...	...	...	...	...
	\$11.50-\$16.49.....	...	...	...	...	...	...	(D)	(D)
	\$16.50 and over.....	(D)	(D)	...	...	...	...	1	34
	Price not specified.....	...	...	...	...	...	...	...	...
2341241	Toddler's and infants' woven nightgowns and kimonos, (sizes 1-4), total.....	(D)	(D)	...	...	...	...	120	855
2341245	Toddler's and infants' woven sleeping pajamas, (sizes 1-4), total.....	(D)	(D)	...	...	...	...	6	85
	Under \$11.50.....	...	...	...	...	...	...	1	9
	\$11.50-\$16.49.....	...	...	...	...	...	...	(D)	(D)
	\$16.50 and over.....	(D)	(D)	...	...	...	...	...	...
	Price not specified.....	...	...	...	...	...	...	(2)	7

See footnotes at end of table.

Table 6B.—QUANTITY AND SALES VALUE OF WOMEN'S AND CHILDREN'S SELECTED GARMENTS BY FACTORY WHOLESALE PRICE AND PRINCIPAL FIBER: 1954—Continued

Product code	Garment and factory wholesale price	Total		Cotton		Rayon and acetate		Wool		Silk	
		Quantity (1,000 doz.)	Value (\$1,000)	Quantity (1,000 doz.)	Value (\$1,000)	Quantity (1,000 doz.)	Value (\$1,000)	Quantity (1,000 doz.)	Value (\$1,000)	Quantity (1,000 doz.)	Value (\$1,000)
2341251	Women's, misses', and junior's knit bed jackets and shoulderettes, total.....	59	1,841	...	...	20	452	...	...	...	...
	Dresses, including work, house, pinafore and suit dresses:										
2361011	Teen-age girls' (sizes 10-16).....	507	13,419	195	7,684	59	1,853	9	311	(D)	(D)
2361013	Girls' (sizes 7-14).....	2,240	67,897	1,491	46,236	166	7,644	32	1,021	2	183
2361015	Children's (sizes 2-6X).....	3,186	81,544	2,392	59,913	185	4,770	21	562	12	520
2361017	Toddlers' (sizes 1-3).....	1,033	22,357	732	15,731	13	260	(D)	(D)	(2)	5
2361019	Infants' (sizes 0-1).....	844	11,968	473	6,821	128	2,008	...	...	34	250
	Woven blouses, blousesettes, waists, and shirts:										
2361031	Girls' and teen-age girls' (sizes 7-16).....	1,105	20,911	705	12,933	29	924	51	1,087	...	...
2361051	Children's and infants' (sizes 1-6X).....	1,550	19,925	1,114	13,848	77	1,246	8	248	(2)	3
	Coat and legging sets, including coat and snow pants sets:										
2363011	Girls' and teen-age girls' (sizes 7-16).....	18	3,090	(D)	(D)	(D)	(D)	12	2,381	...	...
2363015	Children's (sizes 2-6X for girls; 2-8 for boys).....	149	13,395	(D)	(D)	36	459	87	9,824	(D)	(D)
2363017	Toddlers' and infants' (sizes 0-4).....	66	5,825	7	602	11	853	35	3,410	(D)	(D)
	Coats (excluding coat-and-legging sets), quantity figures in units:										
2363021	Teen-age girls' (sizes 10-16).....	82	13,357	4	701	1	138	61	9,855	...	...
2363023	Girls' coats (sizes 7-14).....	264	37,416	3	813	19	2,027	184	27,683	(D)	(D)
2363025	Children's (sizes 2-6X for girls; 2-8 for boys).....	212	22,747	9	941	62	4,538	109	13,918	...	...
2363027	Toddlers' and infants' (sizes 0-4).....	113	8,392	10	729	33	2,164	50	4,011	(D)	(D)
	Ski and snow suits:										
2363031	Girls' and teen-age girls' (sizes 7-16).....	18	1,957	3	443	(D)	(D)	5	366	...	...
2363033	Children's (sizes 2-8).....	145	12,759	33	2,034	14	1,486	24	1,927	...	...
2363035	Toddlers' (sizes 1-4).....	76	6,063	9	677	16	1,131	(D)	(D)	(D)	(D)
2363037	Infants' (sizes 0-2).....	35	2,577	4	350	12	831	(D)	(D)	...	...
2363051	Girls', teen-age girls', and children's jackets, excluding leather (sizes 2-16).....	485	18,286	237	7,414	54	1,896	34	1,919	...	...
	Suits, excluding ski, snow, slack, and uniform:										
2363071	Girls' and teen-age girls' (sizes 7-16).....	65	5,918	5	489	41	3,214	9	1,188	...	...
2363073	Girls' (sizes 6X and under).....	70	3,287	10	258	27	1,314	8	411	...	...
2363075	Little boys', excluding wash suits (sizes 6X and under).....	113	4,201	65	2,070	23	845	3	252	...	...
	Slacks:										
2369024	Girls' and teen-age girls' (sizes 7-16).....	148	3,288	93	1,968	13	227	(D)	(D)	...	...
2369025	Children's, including dress shorts (sizes 2-6X).....	919	15,440	580	9,403	125	2,353	22	688	...	...
2369027	Girls', teen-age girls', and children's slack suits (sizes 2-16).....	117	2,789	32	822	26	846	33	490	...	...
	Playsuits, sunsuits, playshorts, etc., woven fabric:										
2369051	Girls' and teen-age girls' play garments other than dungarees and jeans (sizes 7-16).....	1,126	14,536	1,007	12,258	5	129	5	256	...	...
2369053	Children's play garments, other than dungarees, jeans, and wash suits (sizes 2-8).....	2,888	31,548	2,437	25,502	39	671	(D)	(D)	...	...
2369055	Toddlers' play garments, excluding wash suits.....	761	9,900	536	6,705	1	28	(D)	(D)	...	...
2369058	Toddlers' wash suits (sizes 1-4).....	342	6,044	129	2,638	17	477	(D)	(D)	...	...
2369064	Sacques (sizes 0-3), woven.....	95	837	74	490	6	145	2	47	(D)	(D)
	Skirts:										
2369071	Girls' and teen-age girls' (sizes 7-16).....	763	21,896	416	8,021	91	2,726	138	6,335	...	...
2369073	Children's and toddlers' (sizes 1-6X).....	262	6,061	80	1,549	35	810	63	1,727	...	...
2369081	Robes, girls' and teen-age girls', excluding tufted (sizes 7-16).....	30	1,002	23	720	...	...	...	...	...	...
2369083	Robes, children's and infants', excluding tufted (sizes 0-8).....	171	6,343	82	3,073	54	2,360	(D)	(D)	...	...

See footnotes at end of table.

## MANUFACTURES—INDUSTRY STATISTICS

Table 6B.—QUANTITY AND SALES VALUE OF WOMEN'S AND CHILDREN'S SELECTED GARMENTS BY FACTORY WHOLESALE PRICE AND PRINCIPAL FIBER: 1954—Continued

Product code	Garment and factory wholesale price	Nylon		Linen		Polyester and acrylic fibers		Fiber not specified	
		Quantity (1,000 doz.)	Value (\$1,000)	Quantity (1,000 doz.)	Value (\$1,000)	Quantity (1,000 doz.)	Value (\$1,000)	Quantity (1,000 doz.)	Value (\$1,000)
2341251	Women's, misses', and junior's knit bed jackets and shoulderettes, total.....	18	785	...	...	...	...	19	603
	Dresses, including work, house, pinafore and suit dresses:								
2361011	Teen-age girls' (sizes 10-16).....	(D)	(D)	...	...	...	...	238	3,168
2361013	Girls' (sizes 7-14).....	218	4,974	(D)	(D)	(D)	(D)	328	7,764
2361015	Children's (sizes 2-6X).....	237	6,791	(D)	(D)	(D)	(D)	336	8,966
2361017	Toddlers' (sizes 1-3).....	127	3,724	...	...	(D)	(D)	154	2,393
2361019	Infants' (sizes 0-1).....	74	1,454	...	...	5	168	128	1,265
	Woven blouses, blouses, waists, and shirts:								
2361031	Girls' and teen-age girls' (sizes 7-16).....	167	3,335	...	...	27	515	123	2,116
2361051	Children's and infants' (sizes 1-6X)	99	1,692	...	...	8	136	241	2,749
	Coat and legging sets, including coat and snow pants sets:								
2363011	Girls' and teen-age girls' (sizes 7-16).....	...	...	...	...	...	...	4	666
2363015	Children's (sizes 2-6X for girls; 2-8 for boys).....	1	49	...	...	...	...	20	2,773
2363017	Toddlers' and infants' (sizes 0-4).....	(D)	(D)	...	...	...	...	11	(D)
	Coats (excluding coat-and-legging sets), quantity figures in units:								
2363021	Teen-age girls' (sizes 10-16).....	(D)	(D)	...	...	(D)	(D)	15	2,515
2363023	Girls' coats (sizes 7-14).....	2	314	...	...	(D)	(D)	54	6,530
2363025	Children's (sizes 2-6X for girls; 2-8 for boys).....	2	199	...	...	1	74	29	3,075
2363027	Toddlers' and infants' (sizes 0-4).....	4	337	...	...	( <sup>2</sup> )	41	16	1,106
	Ski and snow suits:								
2363031	Girls' and teen-age girls' (sizes 7-16).....	1	292	...	...	...	...	6	741
2363033	Children's (sizes 2-8).....	19	2,470	...	...	...	...	53	4,842
2363035	Toddlers' (sizes 1-4).....	26	2,520	...	...	...	...	21	1,624
2363037	Infants' (sizes 0-2).....	10	951	...	...	(D)	(D)	3	185
2363051	Girls', teen-age girls', and children's jackets, excluding leather (sizes 2-16)	4	334	...	...	...	...	154	6,721
	Suits, excluding ski, snow, slack, and uniform:								
2363071	Girls' and teen-age girls' (sizes 7-16).....	(D)	(D)	(D)	(D)	2	185	7	724
2363073	Girls' (sizes 6X and under).....	(D)	(D)	(D)	(D)	1	70	20	1,116
2363075	Little boys', excluding wash suits (sizes 6X and under).....	(D)	(D)	(D)	(D)	...	...	20	950
	Slacks:								
2369024	Girls' and teen-age girls' (sizes 7-16).....	...	...	(D)	(D)	...	...	33	684
2369025	Children's, including dress shorts (sizes 2-6X).....	(D)	(D)	(D)	(D)	(D)	(D)	190	2,967
2369027	Girls', teen-age girls', and children's slack suits (sizes 2-16).....	(D)	(D)	(D)	(D)	...	...	2	100
	Playsuits, sunsuits, playshorts, etc., woven fabric:								
2369051	Girls' and teen-age girls' play garments other than dungarees and jeans (sizes 7-16).....	(D)	(D)	(D)	(D)	...	...	97	1,777
2369053	Children's play garments, other than dungarees, jeans, and wash suits (sizes 2-8).....	55	856	...	...	(D)	(D)	334	3,997
2369055	Toddlers' play garments, excluding wash suits.....	32	320	(D)	(D)	(D)	(D)	170	2,486
2369058	Toddlers' wash suits (sizes 1-4).....	7	143	...	...	...	...	184	2,740
2369064	Sacques (sizes 0-3), woven.....	(D)	(D)	...	...	...	...	9	106
	Skirts:								
2369071	Girls' and teen-age girls' (sizes 7-16).....	(D)	(D)	(D)	(D)	21	877	90	3,753
2369073	Children's and toddlers' (sizes 1-6X)	(D)	(D)	(D)	(D)	45	1,103	32	771
2369081	Robes, girls' and teen-age girls', excluding tufted (sizes 7-16).....	(D)	(D)	...	...	...	...	6	233
2369083	Robes, children's and infants' excluding tufted (sizes 0-8).....	6	154	...	...	(D)	(D)	28	738

(D) Withheld to avoid disclosure.

<sup>1</sup>Includes small quantities and values on garments made from fabrics other than those shown.<sup>2</sup>Less than 500.



## WOMEN'S AND CHILDREN'S UNDERGARMENTS; MILLINERY; CHILDREN'S OUTERWEAR; FUR GOODS

23D-29

Table 6C.--VALUE OF PRODUCT CLASSES SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, BY DIVISIONS AND STATES FOR 1954, AND UNITED STATES TOTALS FOR EARLIER YEARS

(In thousands of dollars. Statistics are shown for selected product classes which are economically significant and production of which is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (Table 2) and they are not miscellaneous or "not specified by type" classes. For each product class, States are listed only if the value of shipments is more than \$1 million and the figure does not disclose individual company information. Additional States which had shipments of more than \$1 million of the individual product classes are listed in footnote 1)

Product class, region, and State <sup>1</sup>	Value of shipments	Product class, region, and State <sup>1</sup>	Value of shipments	Product class, region, and State <sup>1</sup>	Value of shipments
<u>Women's and children's underwear</u> (23411)		<u>Women's and children's nightwear</u> (23412)		<u>Brassieres (23421)</u>	
1954 United States, total.....	534,792	1954 United States, total.....	243,127	1954 United States, total.....	189,861
1947 United States, total.....	398,907	1947 United States, total.....	219,936	1947 United States, total.....	115,945
1954		1954		1954	
New England.....	28,720	New England.....	21,661	New England.....	21,356
Massachusetts.....	14,575	Massachusetts.....	14,532	Middle Atlantic.....	117,131
Rhode Island.....	4,979	Connecticut.....	5,247	New York.....	74,321
Connecticut.....	5,078	Middle Atlantic.....	156,036	New Jersey.....	39,955
Middle Atlantic.....	355,807	New York.....	109,542	Pennsylvania.....	2,855
New York.....	258,187	New Jersey.....	14,696	North Central.....	19,075
New Jersey.....	29,709	Pennsylvania.....	31,798	Illinois.....	15,151
Pennsylvania.....	67,911	East North Central.....	11,871	South.....	15,414
East North Central.....	15,885	Illinois.....	5,137	Georgia.....	10,685
Indiana.....	2,897	Michigan.....	4,362	Pacific.....	16,887
Illinois.....	10,575	Wisconsin.....	1,413	California.....	16,887
Michigan.....	2,240	West North Central.....	8,004	<u>Corsets, girdles and garter belts</u> (23422)	
West North Central.....	14,030	Minnesota.....	3,840	1954 United States, total.....	132,814
Missouri.....	8,468	Missouri.....	3,708	1947 United States, total.....	103,156
South.....	105,146	South Atlantic.....	20,876	1954	
South Atlantic.....	50,954	Virginia.....	2,076	New England.....	21,860
North Carolina.....	30,605	North Carolina.....	8,821	Massachusetts.....	1,138
Georgia.....	9,360	Georgia.....	4,158	Connecticut.....	20,722
East South Central.....	39,761	East South Central.....	18,258	Middle Atlantic.....	70,143
Tennessee.....	4,531	Alabama.....	12,336	New York.....	53,398
Alabama.....	25,374	West South Central.....	3,055	New Jersey.....	13,495
Mississippi.....	9,856	Texas.....	1,527	Pennsylvania.....	3,249
West South Central.....	14,431	Mountain.....	1,095	North Central.....	27,202
Texas.....	3,481	Pacific.....	2,270	Illinois.....	19,253
Mountain.....	1,688	California.....	2,251	Michigan.....	2,074
Pacific.....	10,324			South.....	10,423
				Pacific.....	3,186
				California.....	3,186

<sup>1</sup>For the specified product classes, shipments of over \$1 million were reported for the States listed but the exact figures are withheld to avoid disclosure of individual company figures: 23411, Vermont, Minnesota, Iowa, South Carolina, Louisiana, Oklahoma, Arizona, and California; 23412, Vermont, Maryland, Tennessee, Mississippi, and Louisiana; 23421, Massachusetts, Connecticut, Michigan, North Carolina, and Texas; and 23422, Indiana, Minnesota, Delaware, and North Carolina.

TABLE 7 NOT APPLICABLE TO THIS BULLETIN

## MANUFACTURES—INDUSTRY STATISTICS

Table 8.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY INDUSTRY SPECIALIZATION AND PRIMARY PRODUCT CLASS SPECIALIZATION, FOR THE UNITED STATES: 1954

(This table presents selected statistics for establishments classified according to their degree of specialization in products primary to the industry. The establishments are classified in two ways: (1) by industry specialization—the degree of specialization in all primary products of the industry; and (2) by product-class specialization—the degree of specialization in the largest product class of the establishment. The degree of "industry specialization" for an establishment represents the ratio of its primary product shipments to its total product shipments, primary and secondary. The degree of "product-class specialization" for an establishment represents the ratio of its largest product class shipments to its total product shipments, primary and secondary. Data are not shown for some industries, product classes, and specialization ranges for a variety of reasons, consequently, detailed figures frequently do not add to the totals. See Introduction for detailed explanation)

Ind. or product class No.	Industry or product class by percent of specialization	Establishments, number	All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
2341 Pt.A	WOMEN'S AND CHILDREN'S UNDERWEAR "MANUFACTURERS" (all establishments).....	711	46,406	114,676	41,944	74,930	90,582	199,417	286,583	486,000
	Establishments with:									
	90% or more specialization.....	628	37,548	93,301	33,961	60,519	73,650	164,708	242,269	406,977
	75-89% specialization.....	43	4,684	10,694	4,177	7,437	8,485	15,161	19,414	34,576
	50-74% specialization.....	24	2,610	6,765	2,379	4,326	5,169	11,542	15,752	27,295
	All other <sup>1</sup> .....	16	1,563	3,916	1,425	2,647	3,276	8,005	9,146	17,151
23411 Pt.A	Underwear "Manufacturers:" All establishments specializing in product class	423	31,945	77,785	29,058	51,628	62,284	141,419	203,650	345,069
	Establishments with:									
	90% or more specialization.....	289	14,457	34,973	13,362	23,334	28,791	66,792	97,773	164,565
	75-89% specialization.....	49	5,280	12,686	4,804	9,031	10,195	23,845	29,640	53,485
	50-74% specialization.....	74	11,396	28,446	10,192	18,196	22,052	48,233	72,384	120,618
	Less than 50% specialization.....	11	811	1,679	698	1,066	1,245	2,548	3,851	6,400
23412 Pt.A	Nightwear "Manufacturers:" All establishments specializing in product class	178	11,853	30,365	10,628	19,170	23,355	46,601	67,777	114,379
	Establishments with:									
	90% or more specialization.....	110	6,773	16,966	6,188	11,166	13,547	24,889	39,078	63,968
	75-89% specialization.....	17	1,515	4,104	1,252	2,333	2,569	6,701	9,929	16,631
	50-74% specialization.....	39	1,995	5,201	1,726	3,050	3,783	9,154	11,647	20,802
	Less than 50% specialization.....	12	1,569	4,093	1,460	2,619	3,455	5,855	7,121	12,977
2341 Pt.B	WOMEN'S AND CHILDREN'S UNDERWEAR AND NIGHTWEAR "JOBBER'S" (all establishments).....	204	3,925	14,971	2,738	4,705	6,757	40,184	173,977	214,161
	Establishments with:									
	90% or more specialization.....	186	3,278	12,938	2,239	3,722	5,570	35,699	159,748	195,448
	75-89% specialization.....	8	43	210	15	39	50	1,311	3,408	4,719
	50-74% specialization.....	7	506	1,361	426	845	984	2,121	8,895	11,016
	All other <sup>1</sup> .....	3	97	461	57	98	152	1,052	1,925	2,977
23411 Pt.B	Underwear "Jobbers:" All establishments specializing in product class	115	2,783	9,824	2,138	3,664	5,002	26,047	119,253	145,301
	Establishments with:									
	90% or more specialization.....	93	1,711	6,783	1,228	1,995	2,838	17,344	88,952	106,297
	75-89% specialization.....	10	159	623	101	176	262	2,746	7,668	10,415
23412 Pt.B	Nightwear "Jobbers:" All establishments specializing in product class	79	1,025	4,660	530	925	1,590	12,923	52,329	65,252
	Establishments with:									
	90% or more specialization.....	62	816	3,612	451	778	1,352	9,724	36,806	46,531
	75-89% specialization.....	5	30	143	7	16	20	441	1,767	2,209
2342 Pt.A	CORSETS AND ALLIED GARMENTS "MANUFACTURERS" (all establishments).....	331	23,459	70,433	20,001	35,953	49,467	152,224	120,912	273,136
	Establishments with:									
	90% or more specialization.....	300	20,173	60,519	17,191	30,485	42,409	124,058	103,712	227,771
	75-89% specialization.....	13	1,987	6,185	1,755	3,344	4,418	12,019	9,926	21,946
23421 Pt.A	Brassieres "Manufacturers:" All establishments specializing in product class	122	11,090	33,389	9,739	17,706	25,100	68,757	55,358	124,115
	Establishments with:									
	90% or more specialization.....	93	7,123	20,177	6,346	11,617	15,620	34,204	20,459	54,664
	75-89% specialization.....	7	273	756	229	274	387	2,374	4,732	7,107
23422 Pt.A	Corsets girdles and garter belts "Manufacturers:" All establishments specializing in product class	145	9,859	30,212	8,057	14,233	19,290	70,567	54,716	125,283
	Establishments with:									
	90% or more specialization.....	96	4,086	12,162	3,555	6,287	8,666	23,237	20,791	44,029
	75-89% specialization.....	11	1,074	3,782	909	1,539	2,323	7,668	5,260	12,929
	50-74% specialization.....	32	3,220	8,265	2,607	4,676	5,872	26,785	15,490	42,276
	Less than 50% specialization.....	6	1,479	6,003	985	1,730	2,429	12,875	13,173	26,049
23423 Pt.A	Combunations, maternity corsets and accessories "Manufacturers:" All establishments specializing in product class	34	1,989	5,616	1,772	3,214	4,275	11,089	8,609	19,698
	Establishments with:									
	90% or more specialization.....	19	602	1,812	511	937	1,264	3,358	3,032	6,391
	75-89% specialization.....	4	311	803	284	507	615	2,568	1,237	3,806

See footnote at end of table.

Table 8.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY INDUSTRY SPECIALIZATION AND PRIMARY PRODUCT CLASS SPECIALIZATION, FOR THE UNITED STATES: 1954—Continued

Ind. or product class No.	Industry or product class by percent of specialization	Establishments, number	All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
2342 Pt.B	CORSETS AND ALLIED GARMENTS: "JOBBER" (all establishments)	27	3,008	11,846	1,998	3,715	5,877	30,254	57,861	88,116
2342 Pt.B	Brassieres "Jobbers:"									
2342 Pt.B	All establishments specializing in product class	14	2,516	10,059	1,616	3,005	4,846	24,457	44,382	68,840
	Establishments with:									
	90% or more specialization.....	10	2,207	9,027	1,462	2,697	4,519	21,869	34,419	56,288
2369 Pt.A	CHILDREN'S OUTERWEAR, N.E.C. "MANUFACTURERS" (all establishments).....	407	18,152	44,272	16,485	30,110	35,464	74,003	89,752	163,755
	Establishments with:									
	90% or more specialization.....	258	7,548	18,305	6,794	12,397	14,644	29,882	33,831	63,713
	75-89% specialization.....	45	3,714	9,814	3,397	6,412	7,857	17,384	19,106	36,490
	50-74% specialization.....	80	4,819	11,456	4,406	7,946	9,175	19,042	25,928	44,971
	All other <sup>1</sup> .....	24	2,070	4,697	1,886	3,354	3,787	7,694	10,886	18,580
2369 Pt.B	CHILDREN'S OUTERWEAR, N.E.C., "JOBBER" (all establishments).....	123	2,475	8,806	1,668	2,877	4,209	22,009	64,283	86,292
	Establishments with:									
	90% or more specialization.....	72	1,051	3,825	660	1,101	1,621	10,300	27,830	38,130
	75-89% specialization.....	11	231	819	168	271	451	2,086	6,559	8,645
	50-74% specialization.....	31	1,015	3,487	722	1,280	1,764	7,287	22,056	29,344
	All other <sup>1</sup> .....	9	176	674	117	223	371	2,334	7,837	10,172

Note: Plant specialization data are not shown for these industries as a whole since specialization ratios for contractors were not computed. Such ratios would not be meaningful since they could relate to only a minor portion of the contractors' total activity, that is, production on own account from materials owned by them, and would not be representative of the activity of the establishments as a whole.

<sup>1</sup>This class includes data for establishments with less than 50 percent specialization in the primary products of the industry and miscellaneous small statistical adjustments.

Virtually all jobbers have specialization ratios of 90% or more.





## Miscellaneous Apparel and Accessories

This report presents 1954 Census of Manufactures statistics for establishments classified in each of the following industries:

Code	Title
2381	- Fabric Dress Gloves
2382	- Fabric Work Gloves
2383	- Suspenders and Garters
2384	- Robes and Dressing Gowns
2385	- Waterproof Outer Garments
2386	- Leather and Sheep-lined Clothing
2387	- Belts
2388	- Handkerchiefs
2389	- Apparel, Not Elsewhere Classified

2381 - Fabric Dress Gloves (Full Standard Industrial Classification title: Dress and Semidress Gloves and Mittens, Fabric, Fabric and Leather Combined)

This industry comprises establishments primarily engaged in manufacturing dress and semidress gloves and mittens, cut and sewed from purchased woven or knit fabric, or these materials combined with leather. Knitting mills primarily engaged in manufacturing gloves and mittens are classified in Industry 2255, Knit Glove Mills; establishments primarily engaged in manufacturing fabric work gloves in Industry 2382, Fabric Work Gloves; leather gloves in Group 315 Leather Gloves; and rubber gloves in Industry 3099, Rubber Industries, Not Elsewhere Classified. For a detailed list of products of Industry 2381, refer to Table 6A, product codes 2381011 to 2381098.

The value of shipments of Industry 2381, Fabric Dress Gloves, in 1954 totaled \$39 million. This included shipments of primary products (fabric dress gloves) valued at \$35 million, shipments of secondary products valued at \$2 million, and miscellaneous receipts (mainly contract work on materials owned by others) of \$2 million.

Industry 2381 shipments of fabric dress gloves in 1954 represented 94 percent of its total product shipments (primary and secondary). In 1947, this primary product specialization ratio was 89 percent.

Industry 2381 shipments of fabric dress gloves in 1954 represented 72 percent of the fabric dress gloves, valued at \$49 million shipped by all industries. This coverage ratio in 1947 was 47 percent. This change of 25 percentage points reflects the relative increase in the output of fabric dress gloves in the cut-and-sew shops as compared with the knit glove mills. The principal other industry shipping fabric dress gloves in 1954 was Industry 2255, Knit Glove Mills, with a value of \$8 million.

The Bureau of the Census publishes annual information covering the output of Industry 2381 in Facts for Industry Series M67D, Gloves and Mittens. The quantity figures shown in the Facts for Industry reports for earlier years represent production whereas the quantity figures shown in Table 6A of this report for 1954 and 1947 represent shipments. However, it is believed that these data are comparable because for most types of gloves and mittens there is no appreciable difference between production and shipments on an annual basis.

2382 - Fabric Work Gloves (Full Standard Industrial Classification Title: Work Gloves and Mittens, Fabric, Fabric and Leather Combined)

This industry comprises establishments primarily engaged in manufacturing work gloves and mittens, cut and sewed from purchased woven or knit fabric, or these materials combined with leather. Knitting mills primarily engaged in manufacturing gloves and mittens are classified in Industry 2255, Knit Glove Mills; establishments primarily engaged in manufacturing dress

and semidress gloves and mittens are classified in Industry 2381, Fabric Dress Gloves; leather gloves in Group 315, Leather Gloves; rubber gloves in Industry 3099, Rubber Industries, Not Elsewhere Classified; sport and athletic gloves in Industry 3949, Sporting and Athletic Goods; and asbestos gloves in Industry 3292, Asbestos Products. For a detailed list of products of Industry 2382, refer to Table 6A, product codes 2382011 to 2382098.

The value of shipments of Industry 2382, Fabric Work Gloves, in 1954 totaled \$66 million. This included shipments of primary products (fabric work gloves) valued at \$62 million, shipments of secondary products valued at \$3 million, and a negligible amount of miscellaneous receipts. Secondary products shipped by Industry 2382 in 1954 consisted mainly of leather work gloves.

Industry 2382 shipments of fabric work gloves in 1954 represented 95 percent of its total product shipments (primary and secondary). In 1947, this primary product specialization ratio was 94 percent.

Industry 2382 shipments of fabric work gloves in 1954 represented 93 percent of the fabric work gloves valued at \$67 million shipped by all industries. This coverage ratio in 1947 was 96 percent.

Separate 1954 Census figures for the Fabric Work Gloves Industry, by type of establishment ("Manufacturers," "Jobbers," and "Contractor") are not shown in the detailed tables of this report since most establishments classified in Industry 2382 operate as "manufacturers."

The Bureau of the Census publishes annual information covering the output of Industry 2382 in Facts for Industry, Series M67D, Gloves and Mittens. For a statement on the comparability of the figures shown in this report and those shown for earlier years in the Facts for Industry reports, please refer to Industry 2381.

2383-Suspenders and Garters (Full Standard Industrial Classification title: Suspenders, Garters, and Related Products)

This industry comprises establishments primarily engaged in manufacturing suspenders, arm bands, garters, hose supporters, and related products. Establishments primarily engaged in manufacturing corsets and allied garments are classified in Industry 2342, Corsets and Allied Garments. For a detailed list of products of Industry 2383, refer to Table 6A, product codes 2383011 to 2383051.

The value of products of Industry 2383, Suspenders and Garters, in 1954 totaled \$10 million. This included output of primary products (suspenders and garters) valued at \$8 million, production of secondary products valued at \$2 million, and a negligible amount of miscellaneous receipts.

Industry 2383 output of suspenders and garters in 1954 represented 78 percent of its total products made (primary and secondary). In 1947, this primary product specialization ratio was 74 percent. Industry 2383 production of suspenders and garters in 1954 represented 60 percent of the suspenders and garters valued at \$13 million made by all industries. The comparable coverage ratio in 1947 was 54 percent. The other principal industries making suspenders and garters were Industry 2387, Belts, and Industry 2342, Corsets and Allied Garments.

Separate 1954 Census figures for the Suspenders and Garters Industry by type of establishment ("Manufacturers," "Jobbers," and "Contractors") are not shown in the detailed tables of this report since most establishments classified in Industry 2383 operate as "manufacturers."

2384-Robes and Dressing Gowns

This industry comprises establishments primarily engaged in manufacturing men's and women's bathrobes, lounging robes, dressing gowns, breakfast coats, brunch coats, housecoats, and lounging pajamas. Establishments primarily engaged in manufacturing negligees and bed jackets from purchased fabric are classified in Industry 2341, Women's and Children's Underwear; and children's and infants' robes, dressing gowns, and kimonos from purchased fabric in Industry 2369, Children's Outerwear, Not Elsewhere Classified. For a detailed list of products of Industry 2384, refer to Table 6A, product codes 2384111 to 2384251.

The value of products of Industry 2384, Robes and Dressing Gowns, in 1954 totaled \$108 million. This included output of primary products (robes and dressing gowns) valued at \$87 million, production of secondary products valued at \$7 million, and miscellaneous receipts (mainly contract work on materials owned by others) of \$14 million.

Industry 2384 output of robes and dressing gowns in 1954 represented 93 percent of its total products made (primary and secondary). In 1947, this primary product specialization ratio was 89 percent. Secondary products produced by this industry in 1954 consisted mainly of miscellaneous apparel items.

Industry 2384 output of robes and dressing gowns in 1954 represented 84 percent of the robes and dressing gowns, valued at \$103 million made by all industries. This comparable coverage ratio in 1947 was 82 percent. The principal other industry making robes and dressing gowns in 1954 was Industry 2341, Women's and Children's Underwear.

2385 - Waterproof Outer Garments (Full Standard Industrial Classification title: Raincoats and Other Waterproof Outer Garments)

This industry comprises establishments primarily engaged in manufacturing raincoats from purchased rubberized fabrics and other waterproof and water repellant fabrics, and other waterproof outer garments made from such material as pofilm and cellophane. Establishments primarily engaged in manufacturing waterproof outer garments from plastic, including baby pants, aprons, bibs, and bathing and shower caps, are also included in Industry 2385. Establishments primarily engaged in manufacturing oiled-fabric work garments are classified in Industry 2329, Men's and Boys' Clothing, Not Elsewhere Classified, and those manufacturing rubber garments and garments made from rubberized fabrics produced in the same establishment are classified in Industry 3099, Rubber Industries, Not Elsewhere Classified. For a detailed list of products of Industry 2385, refer to Table 6A, product codes 2385011 to 2385081.

The value of products of Industry 2385, Waterproof Outer Garments, in 1954 totaled \$120 million. This included output of primary products (waterproof outer garments) valued at \$94 million, production of secondary products valued at \$12 million, and miscellaneous receipts (mainly contract work on materials owned by others) of \$13 million.

Industry 2385 output of waterproof outer garments in 1954 represented 89 percent of its total products made (primary and secondary). In 1947, this primary product specialization ratio was 85 percent.

Industry 2385 production of waterproof outer garments in 1954 represented 81 percent of the waterproof outer garments, valued at \$117 million made by all industries. This coverage ratio in 1947 was 73 percent. The principal other industry making waterproof outer garments in 1954 was Industry 3099, Rubber Industries, Not Elsewhere Classified, \$10 million.

2386 - Leather and Sheep-Lined Clothing

This industry comprises establishments primarily engaged in manufacturing leather and sheep-lined garments. Establishments primarily engaged in manufacturing leather gloves and mittens are classified in Group 315, Leather Gloves, and fur garments in Industry 2371, Fur Goods. For a detailed list of products of Industry 2386, refer to Table 6A, product codes 2386011 to 2386098.

The value of products of Industry 2386, Leather and Sheep-lined Clothing, in 1954 totaled \$56 million. This included output of primary products (leather and sheep-lined clothing) valued at \$46 million, production of secondary products valued at \$8 million, and miscellaneous receipts (mainly contract work on materials owned by others) of \$3 million.

Industry 2386 output of leather and sheep-lined clothing (primary products) in 1954 represented 85 percent of its total products made (primary and secondary). In 1947, this primary product specialization ratio was 79 percent. Secondary products made by this Industry 2386 in 1954 consisted mainly of men's and boys' work, sport, and other apparel, not elsewhere classified.

Industry 2386 production of leather and sheep-lined clothing in 1954 represented 80 percent of the leather and sheep-lined clothing, valued at \$57 million, made by all industries. This coverage ratio in 1947 was also 80 percent. The principal other industry making leather and sheep-lined clothing in 1954 was Industry 2329, Men's and Boys' Clothing, Not Elsewhere Classified, \$8 million.

2387 - Belts

This industry comprises establishments primarily engaged in manufacturing men's and women's apparel belts, regardless of material. For a detailed list of products of Industry 2387, refer to Table 6A, product codes 2387111 to 2387251.

The value of products of Industry 2387, Belts, in 1954 totaled \$106 million. This included output of primary products (belts) valued at \$89 million, production of secondary products valued at \$8 million, and miscellaneous receipts (mainly contract work on materials owned by others) of \$9 million.

Industry 2387 output of belts in 1954 represented 92 percent of its total products made (primary and secondary). In 1947, this primary product specialization ratio was 90 percent. Secondary products made by this industry in 1954 consisted principally of suspenders and garters, \$3 million.

Industry 2387 production of belts (primary products) in 1954 represented 94 percent of the belts, valued at \$95 million, made by all industries. This coverage ratio in 1947 was 95 percent.

2388 - Handkerchiefs

This industry comprises establishments primarily engaged in manufacturing handkerchiefs, except embroidered. Establishments primarily engaged in manufacturing Schiffli-machine embroidered handkerchiefs are classified in Industry 2397, Schiffli-Machine Embroideries; and embroidered handkerchiefs, except Schiffli-machine, in Industry 2398, Embroideries, Except Schiffli. For a detailed list of products of Industry 2388, refer to Table 6A, product codes 2388011 to 2388055.

The value of products of Industry 2388, Handkerchiefs, in 1954 totaled \$40 million. This included output of primary products (handkerchiefs, except embroidered) valued at \$36 million, production of secondary products valued at \$1 million, and miscellaneous receipts (mainly contract work on materials owned by others) of \$3 million. Industry 2388 output of handkerchiefs, except embroidered in 1954, represented 98 percent of its total products made (primary and secondary). In 1947, this primary product specialization ratio also 98 percent.

Industry 2388 production of handkerchiefs, except embroidered in 1954 represented 98 percent of the handkerchiefs, except embroidered, valued at \$37 million, made by all industries. This coverage ratio in 1947 was 95 percent.

2389 - Apparel, Not Elsewhere Classified

This industry comprises establishments primarily engaged in manufacturing apparel, not elsewhere classified, such as academic caps and gowns, vestments, and theatrical costumes.

The value of products of Industry 2389, Apparel, Not Elsewhere Classified, in 1954 totaled \$27 million. This included output of primary products (apparel, not elsewhere classified) valued at \$22 million, production of secondary products valued



at \$3 million, and miscellaneous receipts (mainly contract work on materials owned by others) of \$2 million.

Industry 2389 production of apparel, not elsewhere classified, in 1954 represented 90 percent of its total products made (primary and secondary). In 1947, this primary product specialization ratio was 96 percent.

Industry 2389 production of apparel, not elsewhere classified, in 1954 represented 91 percent of the apparel, not elsewhere

classified, valued at \$25 million, made by all industries. This coverage ratio in 1947 was 86 percent.

Separate 1954 Census figures for the Apparel, N.E.C. Industry, by type of establishment ("Manufacturer," "Jobber," and "Contractor") are not shown in the detailed tables of this report since most establishments classified in Industry 2389 operate as "manufacturers."

The general statistics (employment, payrolls, value of shipments, cost of materials, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products, and, for that matter, their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (Tables 1-4) with product statistics (Table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in Table 5A which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry made as secondary products by establishments classified in other industries.

Table 1.—GENERAL STATISTICS FOR THE UNITED STATES: 1954 AND EARLIER YEARS  
(For explanation of column captions see Introduction)

Industry and census year	Establishments, number	All employees		Production workers		Value added by manufacture <sup>2</sup> (\$1,000)	Cost of materials, etc. <sup>3</sup> (\$1,000)	Value of shipments <sup>4</sup> (\$1,000)
		Number <sup>1</sup>	Payroll (\$1,000)	Number <sup>1</sup>	Wages (\$1,000)			
Fabric dress gloves (S.I.C. 2381):								
1954.....	110	4,537	10,374	4,127	8,266	17,271	21,820	39,091
1947 <sup>7</sup> .....	133	5,633	9,233	5,248	7,811	14,806	16,715	30,848
1939.....	51	(NA)	(NA)	3,852	2,645	4,665	4,133	8,798
1937 <sup>8</sup> .....	22	(NA)	(NA)	1,680	1,051	1,673	1,517	3,190
Fabric work gloves (S.I.C. 2382):								
1954.....	130	10,084	19,335	9,484	16,631	29,561	36,215	65,776
1953 <sup>6</sup> .....	(NA)	10,020	21,188	9,486	19,009	32,618	40,853	73,471
1952 <sup>6</sup> .....	(NA)	7,985	16,349	7,418	14,192	26,876	37,385	63,915
1951 <sup>6</sup> .....	(NA)	10,173	21,104	9,659	18,240	28,424	47,311	75,389
1950 <sup>6</sup> .....	(NA)	10,990	19,295	9,310	16,922	29,740	50,901	81,115
1947.....	143	10,865	17,749	10,315	15,780	34,562	41,338	73,722
1939.....	94	9,438	6,642	8,901	5,663	10,530	11,927	22,457
1937 <sup>8</sup> .....	25	(NA)	(NA)	10,999	6,796	12,182	17,188	29,370
Total for fabric dress gloves and fabric work gloves:								
1954.....	240	14,621	29,709	13,611	24,897	46,832	58,035	104,867
1947.....	276	16,498	26,982	15,563	23,591	49,368	58,053	104,570
1939.....	145	(NA)	(NA)	12,753	8,308	15,195	16,060	31,255
1937.....	107	13,104	8,571	12,679	7,847	13,855	18,705	32,560
1935.....	115	8,415	5,138	8,048	4,488	8,607	10,333	18,940
1933.....	91	8,875	3,936	8,586	3,547	7,269	8,743	16,012
1931.....	106	(NA)	(NA)	7,101	3,319	5,627	8,912	14,539
1929.....	125	9,861	6,927	9,279	5,914	10,594	19,289	29,883
1927.....	131	10,752	7,626	10,296	6,670	12,810	17,392	30,202
1925.....	139	(NA)	(NA)	9,061	5,709	11,555	17,977	29,532
1923 <sup>7</sup> .....	129	9,379	6,412	8,864	5,296	9,834	18,292	28,126
1921.....	128	6,099	4,106	5,758	3,294	5,022	10,191	15,213
1919 <sup>8</sup> .....	182	9,613	6,092	8,986	4,855	12,128	16,092	28,220

See footnotes at end of table.

## MANUFACTURES--INDUSTRY STATISTICS

Table 1.—GENERAL STATISTICS FOR THE UNITED STATES: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Industry and census year	Establishments, number	All employees		Production workers		Value added by manufacture <sup>2</sup> (\$1,000)	Cost of materials, etc. <sup>3</sup> (\$1,000)	Value of shipments <sup>4</sup> (\$1,000)
		Number <sup>1</sup>	Payroll (\$1,000)	Number <sup>1</sup>	Wages (\$1,000)			
Suspenders and garters (S.I.C. 2383):								
1954.....	47	934	2,435	806	1,768	4,194	5,922	10,116
1947.....	64	1,685	3,641	1,408	2,417	6,774	7,789	14,563
1939.....	66	3,202	3,153	2,558	1,956	6,565	8,918	15,483
1937.....	64	3,246	2,924	2,903	2,193	6,378	8,660	15,038
1935.....	74	3,165	2,831	2,719	1,956	6,081	8,578	14,659
1933.....	62	3,003	2,395	2,617	1,827	4,631	8,150	12,781
1931.....	71	(NA)	(NA)	3,257	2,443	7,170	9,995	17,165
1929.....	91	4,880	5,410	4,341	3,971	12,567	17,906	30,473
1927.....	91	4,827	5,736	4,061	3,529	10,725	16,260	26,985
1925.....	93	4,585	4,811	3,835	3,072	11,004	16,500	27,504
1923 <sup>9</sup> .....	100	4,268	4,761	3,458	2,892	10,363	13,934	24,297
Robes and dressing gowns (S.I.C. 2384):								
1954.....	328	10,957	27,039	10,043	21,093	44,027	63,936	107,964
1947.....	376	10,884	23,353	9,803	17,630	42,563	60,461	103,024
1939 <sup>10</sup> .....	190	(NA)	(NA)	5,774	4,303	11,740	20,054	31,794
Waterproof outer garments (S.I.C. 2385):								
1954.....	294	12,872	34,702	11,360	27,117	59,342	60,317	119,660
1947.....	247	8,573	20,272	7,568	15,448	33,444	47,307	80,751
1939.....	81	(NA)	(NA)	2,412	1,934	4,341	7,264	11,605
1937 <sup>10</sup> .....	61	(NA)	(NA)	2,243	1,707	4,096	5,908	10,004
Leather and sheep-lined clothing (S.I.C. 2386):								
1954.....	153	5,361	15,730	4,660	11,862	24,248	32,134	56,383
1952 <sup>6</sup> .....	(NA)	4,655	13,910	4,052	11,140	21,536	31,403	52,939
1951 <sup>6</sup> .....	(NA)	3,909	10,739	3,414	8,445	17,493	28,076	45,569
1950 <sup>6</sup> .....	(NA)	4,306	10,723	3,791	8,291	15,220	27,089	42,309
1947.....	125	4,228	10,432	3,710	7,798	18,451	22,104	40,555
1939.....	97	5,355	5,878	4,672	4,578	8,376	13,766	22,142
1937 <sup>10</sup> .....	78	4,534	4,615	4,075	3,720	6,574	14,399	20,973
Belts (S.I.C. 2387):								
1954.....	503	12,571	35,403	10,789	25,176	58,010	48,298	106,311
1947.....	396	9,162	22,016	7,573	15,889	38,037	30,945	68,982
1939.....	245	5,159	5,800	4,222	4,067	9,176	9,900	19,076
1937 <sup>10</sup> .....	119	(NA)	(NA)	3,435	3,294	8,332	8,374	16,706
Handkerchiefs (S.I.C. 2388):								
1954.....	100	3,513	7,792	3,178	5,797	14,366	25,894	40,261
1947.....	159	4,583	9,054	4,078	6,303	20,689	32,417	53,106
1939.....	80	5,435	4,574	4,839	3,320	7,602	13,999	21,601
1937.....	74	5,308	3,787	4,997	3,134	6,116	13,604	19,720
1935.....	89	5,268	4,106	4,889	3,216	7,233	11,210	18,443
1933.....	74	4,959	2,834	4,701	2,442	5,446	9,478	14,924
1931.....	88	(NA)	(NA)	4,761	3,221	6,858	11,940	18,798
1929.....	105	6,465	5,808	6,014	4,636	11,265	18,289	29,554
1927 <sup>11</sup> .....	115	7,243	6,604	6,659	5,264	11,616	19,972	31,588
Apparel, n.e.c. (S.I.C. 2389):								
1954.....	139	3,501	10,569	2,950	7,489	15,582	11,413	26,996
1947.....	85	2,180	4,859	1,765	3,316	7,922	5,364	13,286
1939 <sup>10</sup> .....	47	(NA)	(NA)	992	846	2,198	1,608	3,806

\* Revised.

NA Not available.

<sup>1</sup>The number of "All employees" and the number of "production and related workers" were obtained as follows: For the period 1949-1954, figures are based on employment for the payroll periods ended nearest the 15th of March, May, August and November. For 1947, they represent the average of 12 monthly figures. For earlier years, the production worker average was calculated as in 1947, but the figure for all employees represents the sum of the annual average number of production workers and the number of nonproduction workers reported for one payroll period (usually in October).

<sup>2</sup>Value of products less cost of materials, supplies, fuel, electric energy and contract work. See Introduction, "Value Added by Manufacture." For the "Fabric dress gloves" and "Fabric work gloves" industries, 1947 value added by manufacture does not equal the published value of shipments less cost of materials, etc. because an estimated value of production was used in the calculation in place of value of shipments. Since the 1949-1952 estimates were derived from 1947 base totals, the same inequality may exist for these years.

<sup>3</sup>Figures for years prior to 1935 do not include cost of contract work, except in the case of "Handkerchiefs."

<sup>4</sup>The figures represent value of production for all years except in the case of "Fabric dress gloves" and "Fabric work gloves" in 1947-1954 and "Suspenders and garters" in 1929 where they represent value of shipments. See Introduction, "Value of Shipments."

<sup>5</sup>"Fabric dress gloves" and "Fabric work gloves" were formerly classified in one industry. The separate industry figures shown for 1937-1947, and 1954 have been combined in order that statistics can be shown for the period 1919-1935.

<sup>6</sup>The figures for 1950-1953 represent estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period. Estimates with a standard error in excess of 15 percent generally have been omitted from this table.

<sup>7</sup>The figures for 1919-1923 do not include data for gloves and mittens of fabric and leather combined.

<sup>8</sup>Prior to 1919, this industry was included in "Furnishing goods, men's." Separate figures are, therefore, not available for earlier years.

<sup>9</sup>Because of a change in classification the figures for "Suspenders and garters" for years prior to 1923 are not sufficiently comparable to be shown here.

<sup>10</sup>No comparable figures are available for earlier years.

<sup>11</sup>"Handkerchiefs" was not shown as a separate industry prior to 1927, but was included with the industries formerly designated "Millinery and lace goods" and "Furnishing goods, men's, n.e.c."

## MISCELLANEOUS APPAREL AND ACCESSORIES

23E-5

Table 2.—GENERAL STATISTICS BY REGIONS AND STATES: 1954 AND 1947  
(For explanation of column captions see Introduction)

Industry, region, and State <sup>1</sup>	1954										1947		
	Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments <sup>2</sup> (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
	Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
Fabric dress gloves (S.I.C. 2381), total <sup>3</sup>	110	50	4,537	10,374	4,127	7,131	8,266	17,271	21,820	39,091	111	5,633	14,806
New England.....	3	3	208	424	200	327	371	618	566	1,185	(D)	(D)	(D)
Middle Atlantic.....	93	39	3,278	7,520	2,980	5,058	6,021	12,479	16,756	29,235	(D)	(D)	(D)
New York.....	82	33	2,855	6,744	2,577	4,392	5,323	10,797	13,912	24,710	83	3,565	10,503
All other divisions.....	14	8	1,049	2,428	945	1,744	1,873	4,173	4,496	8,670	(D)	1,567	3,649
"Manufacturers" (S.I.C. 2381, Pt. A), total.....	80	37	3,249	7,838	2,927	5,178	6,042	12,930	14,327	27,258	(D)	(NA)	(NA)
Northeast.....	66	29	2,199	5,409	1,980	3,433	4,169	8,757	9,830	18,587	(D)		
New York.....	57	24	1,919	4,822	1,713	3,005	3,668	7,795	8,874	16,669	66		
All other divisions.....	14	8	1,049	2,428	945	1,744	1,873	4,173	4,496	8,670	(D)		
"Jobbers" (S.I.C. 2381, Pt. B), total..	12	3	595	1,336	535	921	1,097	2,620	5,912	8,533	14		
Middle Atlantic.....	12	3	595	1,336	535	921	1,097	2,620	5,912	8,533	14		
"Contractors" (S.I.C. 2381, Pt. C), total..	18	10	447	805	430	645	764	1,030	218	1,248	(D)	(D)	(D)
Northeast.....	18	10	447	805	430	645	764	1,030	218	1,248	(D)		
Fabric work gloves (S.I.C. 2382), total..	130	96	10,084	19,335	9,484	16,536	16,631	29,561	36,215	65,776	1,103	10,865	34,562
Northeast.....	26	16	868	1,927	785	1,308	1,509	2,827	3,326	6,154	30	1,079	4,035
New Jersey.....	4	4	213	538	200	337	454	815	1,003	1,818	10	134	(D)
Pennsylvania.....	8	6	359	779	320	535	585	1,155	1,483	2,639	13	501	2,046
East North Central.....	54	38	3,590	7,126	3,384	5,868	6,159	11,243	12,585	23,829	149	4,822	14,518
Ohio.....	12	10	697	1,304	656	1,142	1,170	2,268	2,751	5,019	40	1,217	3,443
Indiana.....	14	11	1,031	2,003	972	1,714	1,755	2,528	2,920	5,448	39	1,369	(D)
Illinois.....	10	9	1,433	2,700	1,373	2,417	2,470	3,944	4,965	8,910	49	1,820	5,770
Michigan.....	14	7	370	962	335	537	685	2,319	1,492	3,812	20	275	(D)
West North Central.....	16	14	1,177	2,302	1,087	1,874	1,914	3,215	4,193	7,409	33	1,794	5,748
Missouri.....	7	7	686	1,243	659	1,109	1,119	1,744	2,231	3,975	10	1,094	3,686
South Atlantic.....	6	5	1,248	2,357	1,177	2,003	2,050	2,871	4,940	7,812	529	2,828	9,355
East South Central.....	11	10	2,208	3,835	2,111	3,839	3,432	6,554	7,670	14,224	326		
West South Central.....	8	7	549	925	522	922	819	1,530	1,792	3,322	32		
West.....	9	6	442	863	416	721	746	1,317	1,707	3,024	3	342	906
Washington.....	3	3	203	440	192	341	372	549	944	1,493	3	163	432
Suspenders and garters (S.I.C. 2383), total.....	47	9	934	2,435	806	1,400	1,768	4,194	5,922	10,116	59	1,685	6,774
New England.....	8	2	138	257	124	189	202	362	808	1,171	(D)	430	1,237
Middle Atlantic.....	29	6	526	1,455	460	781	1,106	2,480	3,835	6,315	16	948	4,208
All other divisions.....	10	1	268	732	221	427	459	1,351	1,277	2,629	(D)	307	1,329
Robes and dressing gowns (S.I.C. 2384), total <sup>3</sup> .....	328	157	10,957	27,039	10,043	16,891	21,093	44,027	63,936	107,964	496	10,884	42,563
New England.....	25	17	1,654	3,934	1,563	2,533	3,276	6,365	6,420	12,785	20	1,231	3,765
Massachusetts.....	14	10	939	2,182	888	1,456	1,864	3,473	3,666	7,140	(D)	594	(D)
Middle Atlantic.....	260	116	7,118	18,740	6,474	10,884	14,287	30,977	49,060	80,038	250	6,373	28,560
New York.....	219	88	5,157	14,584	4,616	7,581	10,698	25,498	42,850	68,348	137	4,949	24,669
New Jersey.....	23	14	712	1,612	673	1,160	1,426	2,047	1,504	3,552	17	534	1,486
Pennsylvania.....	18	14	1,248	2,543	1,184	2,142	2,162	3,432	4,706	8,138	95	890	2,405
East North Central.....	11	5	450	1,089	384	684	757	1,888	2,331	4,220	10	572	2,347
Illinois.....	11	5	450	1,089	384	684	757	1,888	2,331	4,220	10	408	(D)
West North Central.....	6	4	225	603	191	331	423	849	937	1,787	18	529	1,654
South.....	19	13	1,337	2,235	1,282	2,181	2,010	3,259	4,462	7,722	192	1,617	3,977
Georgia.....	11	8	815	1,406	785	1,366	1,246	1,984	2,724	4,709	53	1,131	(D)
West.....	7	2	171	436	147	277	338	686	724	1,411	4	562	2,262

See footnotes at end of table..



## MANUFACTURES--INDUSTRY STATISTICS

Table 2.--GENERAL STATISTICS BY REGIONS AND STATES: 1954 AND 1947--Continued  
(For explanation of column captions see Introduction)

Industry, region, and State <sup>1</sup>	1954											1947	
	Establishments, number		All employees		Production workers			Value added by manufacture	Cost of materials, etc.	Value of shipments <sup>2</sup>	Capital expenditures, new	All employees, number	Value added by manufacture
	Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
Robes and dressing gowns "Manufacturers" (S.I.C. 2384, Pt. A), total.....	111	53	5,090	13,688	4,616	8,111	10,243	23,466	29,809	53,276	163	(NA)	(NA)
New England.....	8	5	699	1,946	648	1,118	1,516	3,240	3,921	7,162	4		
Middle Atlantic.....	68	28	2,545	7,970	2,267	4,051	5,676	14,305	18,783	33,089	71		
New York.....	62	25	2,096	6,744	1,861	3,262	4,721	12,721	16,952	29,674	66		
North Central and South.....	28	18	1,673	3,335	1,552	2,663	2,711	5,232	6,380	11,613	83		
West.....	7	2	171	436	147	277	338	686	724	1,411	4		
"Jobbers" (S.I.C. 2384, Pt. B), total..	62	14	1,073	3,844	748	1,244	1,910	7,618	31,274	38,893	42		
Northeast.....	58	13	1,016	3,692	718	1,202	1,831	7,327	29,967	37,294	41		
New York.....	53	11	779	3,063	514	819	1,357	6,123	25,259	31,383	33		
North Central and South.....	4	1	56	151	29	42	78	290	1,306	1,598	1		
"Contractors" (S.I.C. 2384, Pt. C), total..	155	90	4,601	9,109	4,496	7,254	8,583	11,813	993	12,807	-279		
Northeast.....	151	87	4,318	8,668	4,221	6,764	8,182	11,340	949	12,290	143		
Massachusetts.....	8	7	495	1,069	476	758	949	1,284	52	1,336	(D)		
New York.....	104	52	2,281	4,777	2,240	3,499	4,619	6,652	638	7,291	37		
Pennsylvania.....	13	11	743	1,231	731	1,276	1,164	1,411	77	1,488	(D)		
South.....	4	3	283	441	275	490	401	473	44	517	136		
Waterproof outer-garments (S.I.C. 2385), total <sup>3</sup> .....	294	154	12,872	34,702	11,360	20,167	27,117	59,342	60,317	119,660	844	8,573	33,444
New England.....	45	27	2,698	6,841	2,430	4,292	5,534	10,886	9,827	20,713	69	1,595	5,168
Massachusetts.....	38	23	2,482	6,350	2,239	3,966	5,135	10,113	9,327	19,441	61	(D)	(D)
Middle Atlantic.....	187	97	6,037	16,532	5,483	9,438	13,156	30,833	35,676	66,510	288	4,459	18,756
New York.....	157	79	4,824	13,568	4,349	7,474	10,534	24,597	31,264	55,863	229	3,551	16,557
New Jersey.....	19	12	561	1,252	522	881	1,119	1,882	1,464	3,347	23	581	1,527
Pennsylvania.....	11	6	651	1,711	612	1,082	1,502	4,352	2,946	7,299	36	327	672
North Central.....	36	18	2,352	7,549	1,919	3,539	5,438	11,908	10,342	22,251	82	1,935	7,783
Ohio.....	7	4	320	896	294	558	763	1,516	1,501	3,018	6	372	1,219
Michigan.....	6	2	419	1,505	324	596	987	2,646	2,278	4,925	44	(D)	(D)
Wisconsin.....	7	5	741	2,598	565	1,037	1,737	3,803	2,993	6,796	10	498	(D)
South.....	10	7	1,552	3,261	1,330	2,551	2,576	4,703	3,681	8,385	380	233	520
Georgia.....	4	3	506	1,001	483	830	924	1,342	1,031	2,374	32	(D)	(D)
West.....	16	5	233	518	197	346	412	1,010	789	1,800	22	351	1,217
"Manufacturers" (S.I.C. 2385, Pt. A), total.....	150	69	8,142	22,003	7,038	12,873	16,632	37,630	34,623	72,254	622	(NA)	(NA)
New England.....	20	12	1,883	5,085	1,662	3,113	3,956	8,655	8,791	17,447	56		
Massachusetts.....	15	9	1,724	4,694	1,524	2,862	3,653	8,020	8,330	16,351	49		
Middle Atlantic.....	75	30	2,484	6,413	2,270	3,855	4,936	12,690	12,152	24,843	93		
New York.....	63	24	2,007	5,215	1,830	3,008	3,931	8,865	9,043	17,909	55		
New Jersey.....	6	3	125	295	109	208	226	470	460	931	9		
Pennsylvania.....	6	3	351	903	330	639	778	3,354	2,649	6,003	27		
All other divisions.....	55	27	3,773	10,505	3,104	5,903	7,739	16,283	13,678	29,963	472		
Wisconsin.....	7	5	741	2,598	565	1,037	1,737	3,803	2,993	6,796	10		
"Jobbers" (S.I.C. 2385, Pt. B), total..	41	10	669	2,717	420	797	1,257	8,637	23,245	31,882	107		
New York.....	35	9	574	2,460	363	684	1,155	7,758	20,687	28,446	(D)		
All other States.....	6	1	93	255	55	111	100	876	2,557	3,435	7		
"Contractors" (S.I.C. 2385, Pt. C), total..	103	75	3,753	9,272	3,632	6,041	8,725	11,993	1,521	13,514	101		
New York.....	59	46	1,934	5,184	1,886	3,326	4,946	6,891	606	7,498	(D)		
Pennsylvania.....	5	3	300	808	281	443	723	998	297	1,296	9		
All other States.....	39	26	1,517	3,278	1,463	2,270	3,054	4,101	615	4,718	30		

See footnotes at end of table.

## MISCELLANEOUS APPAREL AND ACCESSORIES

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Table 2.—GENERAL STATISTICS BY REGIONS AND STATES: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Industry, region, and State <sup>1</sup>	1954											1947	
	Establishments, number		All employees		Production workers			Value added by manufacture	Cost of materials, etc.	Value of shipments <sup>2</sup>	Capital expenditures, new	All employees, number	Value added by manufacture
	Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
Leather and sheep-lined clothing (S.I.C. 2386), total <sup>3</sup>	153	74	5,361	15,730	4,660	8,106	11,862	24,248	32,134	56,383	391	4,228	18,451
New England.....	23	14	1,047	3,297	926	1,621	2,410	5,302	7,512	12,815	47	626	2,972
Middle Atlantic.....	59	25	1,948	5,630	1,705	2,948	4,421	8,952	12,101	21,053	106	1,330	5,253
New York.....	38	14	849	2,425	734	1,272	1,928	4,023	6,120	10,144	75	491	2,226
New Jersey.....	17	9	662	1,935	610	1,010	1,629	2,919	3,431	6,350	(D)	515	(D)
Pennsylvania.....	4	2	436	1,270	361	665	864	2,010	2,548	4,559	(D)	324	(D)
East North Central.....	17	10	594	1,787	513	916	1,374	2,222	3,064	5,287	24	1,007	4,599
Wisconsin.....	6	4	320	961	262	484	643	1,120	1,364	2,485	5	609	(D)
West North Central.....	10	8	577	1,444	476	797	1,051	2,313	2,582	4,895	40	701	2,869
Minnesota.....	3	3	313	850	239	366	539	1,292	1,092	2,385	27	436	1,884
South.....	5	3	169	379	142	297	308	535	791	1,327	16	(D)	
Mountain.....	9	3	164	241	157	175	209	733	679	1,413	(D)	(D)	2,758
Pacific.....	30	11	859	2,950	738	1,350	2,085	4,188	5,403	9,592	(D)	464	
"Manufacturers" (S.I.C. 2386, Pt. A), total..	118	62	4,290	12,862	3,664	6,395	9,481	19,745	25,940	45,686	208		
East North Central.....	17	10	594	1,787	513	916	1,374	2,222	3,064	5,287	24		
Wisconsin.....	6	4	320	961	262	484	643	1,120	1,364	2,485	5		
West North Central.....	10	8	577	1,444	476	797	1,051	2,313	2,582	4,895	40		
Minnesota.....	3	3	313	850	239	366	539	1,292	1,092	2,385	27		
South.....	5	3	169	379	142	297	308	535	791	1,327	16		
All other divisions.....	86	41	2,948	9,250	2,531	4,384	6,747	14,673	19,502	34,176	127		
New York.....	21	10	609	1,690	523	897	1,356	2,751	3,629	6,381	(D)	(NA)	(NA)
New Jersey.....	7	5	347	1,035	310	515	832	1,758	2,492	4,250	(D)		
"Jobbers" (S.I.C. 2386, Pt. B), total..	10	1	87	356	61	114	217	901	3,554	4,456	16		
Northeast.....	10	1	87	356	61	114	217	901	3,554	4,456	16		
"Contractors" (S.I.C. 2386, Pt. C), total..	25	11	730	1,985	696	1,234	1,731	2,556	990	3,546	66		
New Jersey.....	10	4	315	900	300	495	797	1,161	939	2,100	(D)		
All other States.....	15	7	414	1,084	395	737	933	1,395	50	1,445	48		
Belts (S.I.C. 2387), total <sup>1</sup> .....	503	168	12,571	35,403	10,789	19,639	25,176	58,010	48,298	106,311	658	9,162	38,037
New England.....	29	10	847	2,090	732	1,284	1,600	3,420	3,219	6,639	43	315	1,315
Massachusetts.....	14	7	585	1,448	495	845	1,044	2,077	1,942	4,019	25	177	481
Connecticut.....	11	3	237	577	217	404	505	1,268	1,205	2,474	18	(D)	(D)
Middle Atlantic.....	368	124	9,088	26,019	7,800	13,917	18,503	42,648	34,766	77,415	431	7,214	30,555
New York.....	332	105	7,271	21,300	6,249	11,227	15,537	35,143	28,510	63,654	314	5,910	25,716
New Jersey.....	11	6	500	1,321	447	832	956	2,268	2,260	4,529	61	532	2,060
Pennsylvania.....	25	13	1,316	3,397	1,103	1,857	2,009	5,236	3,995	9,232	56	772	2,779
North Central.....	33	13	978	2,913	872	1,739	2,143	5,554	4,842	10,399	35	969	3,886
Illinois.....	20	8	571	1,736	504	976	1,246	3,977	3,788	7,768	7	520	2,339
South Atlantic.....	9	3	150	276	135	242	231	475	380	855	20	(D)	(D)
West South Central.....	24	10	971	2,640	791	1,632	1,632	3,243	3,395	6,639	81	346	(D)
Texas.....	19	9	904	2,403	741	1,533	1,516	2,835	3,096	5,932	75	346	(D)
West.....	40	8	534	1,464	456	824	1,065	2,669	1,694	4,363	46	269	1,136
"Manufacturers" (S.I.C. 2387, Pt. A), total..	396	140	10,309	30,023	8,728	16,184	20,913	48,214	41,779	89,994	542		
New England.....	23	7	669	1,673	564	1,027	1,255	2,749	2,750	5,500	34		
Massachusetts.....	8	4	407	1,031	327	588	699	1,406	1,474	2,880	16		
Connecticut.....	11	3	237	577	217	404	505	1,268	1,205	2,474	18		
Middle Atlantic.....	288	108	7,550	22,448	6,399	11,641	15,663	37,057	31,361	68,418	350		
New York.....	261	93	6,434	19,205	5,498	9,960	13,826	31,810	26,415	58,225	284	(NA)	(NA)
North Central.....	25	10	786	2,437	695	1,416	1,763	3,407	2,791	6,199	32		
Illinois.....	14	7	476	1,477	418	831	1,061	2,158	1,856	4,015	7		
South and West.....	60	15	1,301	3,463	1,068	2,099	2,231	4,999	4,876	9,877	123		
"Jobbers" (S.I.C. 2387, Pt. B), total..	10	2	84	232	68	124	147	1,929	2,607	4,538	2		

See footnotes at end of table.

## MANUFACTURES--INDUSTRY STATISTICS

Table 2.—GENERAL STATISTICS BY REGIONS AND STATES: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Industry, region, and State <sup>1</sup>	1954										1947			
	Establishments, number		All employees		Production workers			Value added by manufacture	Cost of materials, etc.	Value of shipments <sup>2</sup>	Capital expenditures, new	All employees, number	Value added by manufacture	
	Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)		(\$1,000)	
Belts "Contractors" (S.I.C. 2387, Pt. C), total.....	97	26	2,047	4,710	1,885	3,144	3,837	7,287	3,559	10,847	77	}	(NA)	(NA)
Northeast and North Central.....	84	20	1,692	3,793	1,569	2,544	3,139	5,899	2,966	8,866	53			
South and West.....	13	6	354	916	314	598	696	1,386	592	1,980	23			
Handkerchiefs (S.I.C. 2388), total.....	100	44	3,513	7,792	3,178	5,179	5,797	14,366	25,894	40,261	76		4,583	20,689
Northeast.....	91	39	3,170	7,169	2,864	4,615	5,286	13,413	24,048	37,462	63		3,779	17,979
New York.....	61	20	1,423	3,642	1,200	1,786	2,135	7,823	16,198	24,021	36		1,702	9,701
New Jersey.....	24	14	1,160	2,373	1,115	1,864	2,132	3,243	3,702	6,946	11		1,459	6,362
South and West.....	9	5	343	622	313	563	510	952	1,845	2,799	13		804	2,710
"Manufacturers" (S.I.C. 2388, Pt. A), total.....	34	17	1,594	3,751	1,451	2,574	3,010	7,062	12,637	19,701	40	}	(NA)	(NA)
New York.....	18	6	474	1,307	407	711	916	2,989	4,377	7,367	12			
New Jersey.....	5	3	340	950	317	583	796	1,403	3,142	4,545	3			
All other States.....	11	8	778	1,493	726	1,278	1,297	2,669	5,117	7,787	24		(NA)	(NA)
"Jobbers" (S.I.C. 2388, Pt. B), total..	27	9	690	1,924	531	646	808	4,647	12,863	17,510	26	}	(NA)	(NA)
Middle Atlantic.....	27	9	690	1,924	531	646	808	4,647	12,863	17,510	26			
"Contractors" (S.I.C. 2388, Pt. C), total..	39	18	1,229	2,116	1,195	1,958	1,978	2,656	393	3,050	9			
Apparel, n.e.c. (S.I.C. 2389), total.....	139	42	3,501	10,569	2,950	5,670	7,489	15,582	11,413	26,996	349		2,180	7,922
New England.....	7	3	258	769	225	401	567	1,308	863	2,171	11		71	296
Middle Atlantic.....	79	26	1,696	5,182	1,458	2,749	3,740	7,774	6,766	14,540	135		1,238	4,723
New York.....	57	19	1,064	3,518	902	1,703	2,518	5,179	3,670	8,850	78		1,018	3,962
East North Central.....	23	9	1,121	3,172	905	1,794	2,069	4,230	2,839	7,069	132		(D)	(D)
Ohio.....	8	2	400	1,042	318	616	661	1,690	762	2,453	(D)		235	(D)
Illinois.....	10	5	554	1,614	437	895	1,073	1,877	1,585	3,463	(D)		246	905
West North Central.....	4	1	49	104	40	73	74	182	67	250	6		(D)	(D)
South and West.....	26	3	375	1,341	320	651	1,037	2,086	877	2,964	63		183	832

Note: Detailed figures may not add to the totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>General statistics for some producing States are not shown separately in the table (see INTRODUCTION "Confidentiality of Data for Individual Companies"). Such States are shown below with the number of establishments in each State for 1954 and, in parentheses, the number of employees or the employment-size range for that State for 1954:

S.I.C. 2381, Fabric Dress Gloves: New England—Vermont, 1 (100-249); Massachusetts, 1 (20-99); Connecticut, 1 (20-99); Middle Atlantic—New Jersey, 3 (20-99); Pennsylvania, 8 (250-499); All Other Divisions—Ohio, 1 (1-19); Indiana, 1 (1-19); Illinois, 3 (250-499); Michigan, 1 (20-99); Wisconsin, 4 (250-499); Minnesota, 1 (1-19); Iowa, 2 (20-99); Tennessee, 1 (100-249).

S.I.C. 2381, Pt. A, Manufacturers: Northeast—Vermont, 1 (100-249); Connecticut, 1 (20-99); New Jersey, 2 (1-19); Pennsylvania, 3 (100-249); All Other Divisions—Ohio, 1 (1-19); Indiana, 1 (1-19); Illinois, 3 (250-499); Michigan, 1 (20-99); Wisconsin, 4 (250-499); Minnesota, 1 (1-19); Iowa, 2 (20-99); Tennessee, 1 (100-249).

S.I.C. 2381, Pt. B, Jobbers: Middle Atlantic—New York, 11 (250-499); Pennsylvania, 1 (100-249).

S.I.C. 2381, Pt. C, Contractors: Northeast—Massachusetts, 1 (20-99); New York, 14 (250-499); New Jersey, 1 (20-99); Pennsylvania, 2 (20-99).

S.I.C. 2382, Fabric Work Gloves: Northeast—Maine, 1 (1-19); Connecticut, 2 (20-99); New York, 11 (100-249); East North Central—Wisconsin, 4 (20-99);

West North Central—Minnesota, 2 (20-99); Iowa, 6 (250-499); Kansas, 1 (100-249); South Atlantic—North Carolina, 4 (1,000-2,499); South Carolina, 1 (1-19); Georgia, 1 (100-249); East South Central—Kentucky, 2 (20-99); Tennessee, 3 (250-499); Alabama, 1 (500-999); Mississippi, 5 (500-999);

West South Central—Arkansas, 2 (100-249); Oklahoma, 1 (1-19); Texas, 5 (250-499); West—Colorado, 1 (100-249); Oregon, 1 (20-99); California, 4 (20-99).

S.I.C. 2383, Suspenders and Garters: New England—Massachusetts, 4 (20-99); Connecticut, 4 (20-99); Middle Atlantic—New York, 28 (500-999);

Pennsylvania, 1 (1-19); All Other Divisions—Ohio, 2 (1-19); Illinois, 1 (1-19); Wisconsin, 1 (1-19); Minnesota, 1 (1-19); Iowa, 1 (1-19); North Carolina, 2 (100-249); Texas, 1 (1-19); California, 1 (1-19).

S.I.C. 2384, Robes and Dressing Gowns: New England—Maine, 1 (100-249); Rhode Island, 2 (100-249); Connecticut, 8 (250-499); West North Central—Missouri, 5 (100-249); Nebraska, 1 (20-99); South—South Carolina, 4 (100-249); Florida, 1 (1-19); Alabama, 2 (100-249); Mississippi, 1 (20-99);

West—Arizona, 1 (1-19); California, 6 (100-249).

S.I.C. 2384, Pt. A, Manufacturers: New England—Maine, 1 (100-249); Massachusetts, 4 (100-249); Connecticut, 2 (100-249); Middle Atlantic—New Jersey, 2 (100-249); Pennsylvania, 4 (250-499); North Central and South—Illinois, 9 (250-499); Missouri, 4 (100-249); Nebraska, 1 (20-99); South Carolina, 2 (100-249); Georgia, 9 (500-999); Florida, 1 (1-19); Alabama, 1 (100-249); Mississippi, 1 (20-99); West—Arizona, 1 (1-19); California, 6 (100-249).

S.I.C. 2384, Pt. B, Jobbers: Northeast—Massachusetts, 1 (1-19); Connecticut, 1 (1-19); New Jersey, 2 (20-99); Pennsylvania, 1 (100-249); North Central and South—Illinois, 2 (20-99); Missouri, 1 (20-99); South Carolina, 1 (1-19).

S.I.C. 2384, Pt. C, Contractors: Northeast—Rhode Island, 2 (100-249); Connecticut, 5 (100-249); New Jersey, 19 (500-999); South—South Carolina, 1 (100-249); Georgia, 2 (100-249); Alabama, 1 (1-19).

Footnotes continued on next page.



## MISCELLANEOUS APPAREL AND ACCESSORIES

23E-9

Footnotes for Table 2—MC-23E

- S.I.C. 2385, Waterproof Outer Garments: New England—New Hampshire, 2 (20-99); Rhode Island, 2 (20-99); Connecticut, 3 (20-99); North Central—Indiana, 3 (500-999); Illinois, 10 (100-249); Minnesota, 1 (1-19); Iowa, 1 (1-19); Missouri, 1 (1-19); South—Delaware, 1 (500-999); Maryland, 1 (100-249); Virginia, 1 (100-249); North Carolina, 1 (1-19); Florida, 1 (1-19); Texas, 1 (20-99); West—Colorado, 2 (1-19); Washington, 3 (20-99); Oregon, 2 (20-99); California, 9 (20-99).
- S.I.C. 2385, Pt. A, Manufacturers: New England—New Hampshire, 1 (20-99); Rhode Island, 1 (20-99); Connecticut, 3 (20-99); All Other Divisions—Ohio, 6 (250-499); Indiana, 3 (500-999); Illinois, 9 (100-249); Michigan, 4 (250-499); Minnesota, 1 (1-19); Iowa, 1 (1-19); Missouri, 1 (1-19); Delaware, 1 (500-999); Maryland, 1 (100-249); Virginia, 1 (100-249); North Carolina, 1 (1-19); Georgia, 3 (250-499); Florida, 1 (1-19); Texas, 1 (20-99); Colorado, 2 (1-19); Washington, 3 (20-99); Oregon, 2 (20-99); California, 7 (20-99).
- S.I.C. 2385, Pt. B, Jobbers: All Other States—Massachusetts, 3 (20-99); New Jersey, 1 (1-19); Michigan, 1 (1-19); California, 1 (1-19).
- S.I.C. 2385, Pt. C, Contractors: All Other States—New Hampshire, 1 (1-19); Massachusetts, 20 (500-999); Rhode Island, 1 (20-99); New Jersey, 12 (250-499); Ohio, 1 (20-99); Illinois, 1 (1-19); Michigan, 1 (20-99); Georgia, 1 (100-249); California, 1 (1-19).
- S.I.C. 2386, Leather and Sheep-lined Clothing: New England—New Hampshire, 1 (1-19); Massachusetts, 18 (500-999); Connecticut, 4 (100-249); East North Central—Indiana, 1 (1-19); Illinois, 8 (100-249); Michigan, 2 (20-99); West North Central—Iowa, 1 (20-99); Missouri, 6 (100-249); South—Tennessee, 1 (20-99); Oklahoma, 3 (20-99); Texas, 1 (1-19); Mountain—Idaho, 1 (1-19); Colorado, 4 (20-99); New Mexico, 1 (20-99); Arizona, 3 (20-99); Pacific—Washington, 1 (1-19); Oregon, 2 (1-19); California, 27 (500-999).
- S.I.C. 2386, Pt. A, Manufacturers: East North Central—Indiana, 1 (1-19); Illinois, 8 (100-249); Michigan, 2 (20-99); West North Central—Iowa, 1 (20-99); Missouri, 6 (100-249); South—Tennessee, 1 (20-99); Oklahoma, 3 (20-99); Texas, 1 (1-19); All Other Divisions—New Hampshire, 1 (1-19); Massachusetts, 15 (500-999); Connecticut, 2 (100-249); Pennsylvania, 3 (250-499); Idaho, 1 (1-19); Colorado, 3 (20-99); Arizona, 3 (20-99); Washington, 1 (1-19); Oregon, 2 (1-19); California, 25 (500-999).
- S.I.C. 2386, Pt. B, Jobbers: Northeast—Massachusetts, 2 (1-19); New York, 8 (20-99).
- S.I.C. 2386, Pt. C, Contractors: All Other States—Massachusetts, 1 (20-99); Connecticut, 2 (20-99); New York, 9 (100-249); Colorado, 1 (1-19); California, 2 (100-249).
- S.I.C. 2387, Belts: New England—New Hampshire, 1 (1-19); Vermont, 1 (1-19); Rhode Island, 2 (20-99); North Central—Ohio, 3 (100-249); Indiana, 2 (1-19); Michigan, 2 (1-19); Wisconsin, 3 (100-249); Missouri, 3 (100-249); South Atlantic—Maryland, 4 (20-99); Virginia, 1 (1-19); North Carolina, 1 (1-19); Georgia, 1 (20-99); Florida, 2 (20-99); West South Central—Louisiana, 3 (1-19); Oklahoma, 2 (20-99); West—Colorado, 3 (20-99); New Mexico, 1 (1-19); Arizona, 1 (20-99); California, 35 (250-499).
- S.I.C. 2387, Pt. A, Manufacturers: New England—New Hampshire, 1 (1-19); Vermont, 1 (1-19); Rhode Island, 2 (20-99); New Jersey, 8 (250-499); Pennsylvania, 18 (500-999); North Central—Ohio, 3 (100-249); Indiana, 2 (1-19); Michigan, 2 (1-19); Wisconsin, 2 (20-99); Missouri, 4 (20-99); South and West—Maryland, 3 (1-19); Virginia, 1 (1-19); North Carolina, 1 (1-19); Georgia, 1 (20-99); Florida, 2 (20-99); Louisiana, 3 (1-19); Oklahoma, 2 (20-99); Texas, 14 (500-999); Colorado, 3 (20-99); New Mexico, 1 (1-19); Arizona, 1 (20-99); California, 28 (250-499).
- S.I.C. 2387, Pt. B, Jobbers: All States—Massachusetts, 2 (20-99); New York, 7 (20-99); Illinois, 1 (20-99).
- S.I.C. 2387, Pt. C, Contractors: Northeast and North Central—Massachusetts, 4 (100-249); New York, 64 (500-999); New Jersey, 2 (20-99); Pennsylvania, 7 (500-999); Illinois, 5 (20-99); Wisconsin, 1 (20-99); Missouri, 1 (20-99); South and West—Maryland, 1 (20-99); Texas, 5 (100-249); California, 7 (100-249).
- S.I.C. 2388, Handkerchiefs: Northeast—New Hampshire, 1 (20-99); Rhode Island, 2 (250-499); Pennsylvania, 3 (250-499); South and West—North Carolina, 3 (100-249); South Carolina, 2 (100-249); Georgia, 1 (20-99); Texas, 1 (1-19); California, 2 (1-19).
- S.I.C. 2388, Pt. A, Manufacturers: All Other States—Rhode Island, 2 (250-499); Pennsylvania, 1 (100-249); North Carolina, 3 (100-249); South Carolina, 2 (100-249); Georgia, 1 (20-99); California, 2 (1-19).
- S.I.C. 2388, Pt. B, Jobbers: Middle Atlantic—New York, 24 (500-999); New Jersey, 2 (20-99); Pennsylvania, 1 (100-249).
- S.I.C. 2388, Pt. C, Contractors: All States—New Hampshire, 1 (20-99); New York, 19 (250-499); New Jersey, 17 (500-999); Pennsylvania, 1 (1-19); Texas, 1 (1-19).
- S.I.C. 2389, Apparel, N.E.C.: New England—Massachusetts, 6 (100-249); Connecticut, 1 (100-249); Middle Atlantic—New Jersey, 9 (100-249); Pennsylvania, 13 (500-999); East North Central—Indiana, 1 (1-19); Michigan, 1 (20-99); Wisconsin, 3 (20-99); West North Central—Minnesota, 2 (1-19); Missouri, 1 (1-19); Nebraska, 1 (20-99); South and West—District of Columbia, 1 (1-19); South Carolina, 1 (1-19); Georgia, 1 (1-19); Florida, 1 (1-19); Alabama, 1 (1-19); Mississippi, 1 (1-19); Louisiana, 3 (20-99); Texas, 3 (20-99); New Mexico, 1 (1-19); Washington, 1 (20-99); California, 12 (100-249).

<sup>2</sup>Represents value of products made for all industries except Fabric dress gloves (S.I.C. 2381) and Fabric work gloves (S.I.C. 2382). For these industries, the figures represent value of shipments.

<sup>3</sup>Data for these industries include 9 establishments with 1,132 employees, \$10,677 thousand value of shipments and \$4,529 thousand value added by manufacture which are not included in the separate totals for "manufactures," "jobbers," or "contractors."

Table 3.--DETAILED STATISTICS

(For explanation of line

Line no.	Item	Fabric dress gloves (S.I.C. 2381)				Fabric work gloves (S.I.C. 2382)	Suspenders and garters (S.I.C. 2383)
		Total	"Manufacturers" (S.I.C. 2381 Pt. A)	"Jobbers" (S.I.C. 2381 Pt. B)	"Contractors" (S.I.C. 2381 Pt. C)		
1	Primary product specialization ratio <sup>2</sup> .....	94	(NA)	(NA)	(NA)	95	78
2	Coverage ratio <sup>3</sup> .....	72	(NA)	(NA)	(NA)	93	60
3	Number of establishments, total.....	110	80	12	18	130	47
4	With 1-19 employees.....	60	43	9	8	34	38
5	With 20-99 employees.....	39	28	1	10	68	7
6	With 100 employees and over.....	11	9	2	...	28	2
7	All employees:						
8	Number (average for year).....	4,537	3,249	595	447	10,084	934
	Payroll.....\$1,000...	10,374	7,838	1,336	805	19,335	2,435
9	Production workers:						
10	Number (average for year).....	4,127	2,927	535	430	9,484	806
11	Man-hours.....1,000...	7,131	5,178	921	645	16,536	1,400
	Wages.....\$1,000...	8,266	6,042	1,097	764	16,631	1,768
12	Value added by manufacture.....do....	17,271	12,930	2,620	1,030	29,561	4,194
13	Cost of materials, etc.....do....	21,820	14,327	5,912	218	36,215	5,922
14	Value of shipments.....do....	39,091	27,258	8,533	1,248	65,776	10,116
15	Value added by resales.....do....	237	127	104	6	593	31
16	Cost of products bought and resold.....do....	859	379	462	18	3,162	291
17	Sales of products bought and resold.....do....	1,096	506	566	24	3,755	323
18	Total inventories, beginning of year.....do....	6,888	5,569	1,228	( <sup>4</sup> )	15,322	1,506
19	Total inventories, end of year.....do....	6,525	5,165	1,266	( <sup>4</sup> )	14,990	1,305
20	Capital expenditures, new.....do....	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	1,103	( <sup>4</sup> )
21	Number of employees for selected months:						
22	March.....	4,870	3,501	565	541	10,426	927
23	May.....	4,052	2,832	599	398	9,709	861
24	August.....	4,548	3,223	640	437	9,958	940
	November.....	4,680	3,438	575	413	10,245	1,007
25	Cost of materials, fuel, electricity, and contract work, total.....\$1,000...	21,820	14,327	5,912	218	36,215	5,922
26	Materials, parts, containers, and supplies consumed.....do....	15,626	11,891	2,888	214	35,559	5,786
	Electric energy:						
27	Purchased:						
	Quantity.....million kwh...	4	2	1	( <sup>5</sup> )	8	( <sup>5</sup> )
28	Cost.....\$1,000...	76	53	21	( <sup>4</sup> )	155	16
29	Cost of contract work.....do....	6,070	2,383	3,003	2	387	118
30	Manufacturers' inventories:						
	Beginning of year, total.....do....	6,888	5,569	1,228	( <sup>4</sup> )	15,322	1,506
31	Finished products.....do....	3,083	2,478	551	( <sup>4</sup> )	8,018	( <sup>4</sup> )
32	Work-in-process.....do....	2,370	1,760	598	( <sup>4</sup> )	2,113	( <sup>4</sup> )
33	Materials, supplies, fuel, etc.....do....	1,434	1,330	( <sup>4</sup> )	( <sup>4</sup> )	5,190	933
34	End of year, total.....do....	6,525	5,165	1,266	( <sup>4</sup> )	14,990	1,305
35	Finished products.....do....	2,842	2,218	575	( <sup>4</sup> )	8,443	( <sup>4</sup> )
36	Work-in-process.....do....	2,202	1,568	615	( <sup>4</sup> )	1,880	( <sup>4</sup> )
37	Materials, supplies, fuel, etc.....do....	1,479	1,378	( <sup>4</sup> )	( <sup>4</sup> )	4,666	808
38	Expenditures for plant and equipment, total....do....	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	1,112	( <sup>4</sup> )
39	Capital expenditures, new.....do....	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	1,103	( <sup>4</sup> )
40	New structures and additions to plant....do....	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	776	( <sup>4</sup> )
41	New machinery and equipment.....do....	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
42	Expenditures for used plant and equipment....do....	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )

See footnotes at end of table.

## 23E-11

captions see Introduction)

Robes and dressing gowns (S.I.C. 2384)				Waterproof outer garments (S.I.C. 2385)							Line no.
Total <sup>1</sup>	"Manufacturers" (S.I.C. 2384 Pt. A)	"Jobbers" (S.I.C. 2384 Pt. B)	"Contractors" (S.I.C. 2384 Pt. C)	Total <sup>1</sup>	"Manufacturers" (S.I.C. 2385 Pt. A)		"Jobbers" (S.I.C. 2385 Pt. B)		"Contractors" (S.I.C. 2385 Pt. C)		
					All establishments	Establishments with 90% or more primary product specialization	All establishments	Establishments with 90% or more primary product specialization			
93	(NA)	(NA)	(NA)	89	(NA)	xxx	(NA)	xxx	(NA)	1	
84	(NA)	(NA)	(NA)	81	(NA)	xxx	(NA)	xxx	(NA)	2	
328	111	62	155	294	150	106	41	35	103	3	
171	58	48	65	140	81	60	31	25	28	4	
133	36	13	84	127	46	35	9	9	72	5	
24	17	1	6	27	23	11	1	1	3	6	
10,957	5,090	1,073	4,601	12,872	8,142	4,501	669	614	3,753	7	
27,039	13,688	3,844	9,109	24,702	22,003	12,492	2,717	2,502	9,272	8	
10,043	4,616	748	4,496	11,360	7,038	4,009	420	397	3,632	9	
16,891	8,111	1,244	7,254	20,167	12,873	7,356	797	768	6,041	10	
21,093	10,243	1,910	8,583	27,117	16,632	9,846	1,257	1,200	8,725	11	
44,027	23,466	7,618	11,813	59,342	37,630	23,119	8,637	7,240	11,993	12	
63,936	29,809	31,274	993	60,317	34,623	22,611	23,245	20,302	1,521	13	
107,964	53,276	38,893	12,807	119,660	72,254	45,730	31,882	27,543	13,514	14	
94	53	41	...	511	464	37	16	16	30	15	
1,234	850	383	1	993	719	127	111	111	162	16	
1,328	903	424	1	1,505	1,184	164	127	127	193	17	
10,328	6,186	3,976	( <sup>4</sup> )	17,237	12,976	7,642	3,950	3,649	( <sup>4</sup> )	18	
9,101	5,439	3,493	( <sup>4</sup> )	15,851	12,210	8,017	3,312	3,000	( <sup>4</sup> )	19	
( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	844	622	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	20	
10,128	4,547	1,041	4,359	12,767	8,222	4,373	642	588	3,596	21	
9,909	4,701	983	4,050	11,561	7,643	4,125	597	547	3,042	22	
11,128	5,361	1,070	4,502	13,396	8,083	4,579	682	622	4,313	23	
12,665	5,749	1,197	5,492	13,765	8,617	4,927	755	698	4,061	24	
63,936	29,809	31,274	993	60,317	34,623	22,611	23,245	20,302	1,521	25	
50,972	27,246	21,244	724	46,056	31,682	20,320	12,262	10,609	1,271	26	
9	2	( <sup>5</sup> )	7	8	7	3	( <sup>5</sup> )	( <sup>5</sup> )	1	27	
163	72	44	46	226	168	83	36	34	22	28	
12,780	2,491	9,986	223	13,997	2,773	2,208	10,983	9,659	( <sup>4</sup> )	29	
10,328	6,186	3,976	( <sup>4</sup> )	17,237	12,976	7,642	3,950	3,649	( <sup>4</sup> )	30	
4,256	2,426	1,767	( <sup>4</sup> )	8,888	6,487	4,341	2,296	2,155	( <sup>4</sup> )	31	
1,491	764	710	( <sup>4</sup> )	2,722	1,838	884	779	716	( <sup>4</sup> )	32	
4,580	2,995	1,498	( <sup>4</sup> )	5,626	4,651	2,416	874	777	( <sup>4</sup> )	33	
9,101	5,439	3,493	( <sup>4</sup> )	15,851	12,210	8,017	3,312	3,000	( <sup>4</sup> )	34	
3,565	2,034	1,483	( <sup>4</sup> )	8,302	6,366	4,522	1,790	1,650	( <sup>4</sup> )	35	
1,290	600	661	( <sup>4</sup> )	2,396	1,682	1,025	643	562	( <sup>4</sup> )	36	
4,245	2,805	1,348	( <sup>4</sup> )	5,152	4,161	2,469	879	786	( <sup>4</sup> )	37	
630	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	834	622	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	38	
( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	844	622	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	39	
( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	40	
( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	702	553	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	41	
( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	42	



Table 3.--DETAILED STATISTICS

Line no.	Item	Leather and sheep-lined clothing (S.I.C. 2386)					
		Total <sup>1</sup>	"Manufacturers" (S.I.C. 2386 Pt. A)		"Jobbers" (S.I.C. 2386 Pt. B)		"Contractors" (S.I.C. 2386 Pt. C)
			All estab- lishments	Establishments with 90% or more primary product specialization	All estab- lishments	Establishments with 90% or more primary product specialization	
1	Primary product specialization ratio <sup>2</sup> .....	85	(NA)	xxx	(NA)	xxx	(NA)
2	Coverage ratio <sup>3</sup> .....	80	(NA)	xxx	(NA)	xxx	(NA)
3	Number of establishments, total.....	153	118	81	10	7	25
4	With 1-19 employees.....	79	56	45	9	7	14
5	With 20-99 employees.....	63	53	33	1	...	9
6	With 100 employees and over.....	11	9	3	...	...	2
7	All employees:						
8	Number (average for year).....	5,361	4,290	2,332	87	27	730
8	Payroll.....\$1,000...	15,730	12,862	7,136	356	105	1,985
9	Production workers:						
9	Number (average for year).....	4,660	3,664	2,032	61	11	696
10	Man-hours.....1,000...	8,106	6,395	3,689	114	17	1,234
11	Wages.....\$1,000...	11,862	9,481	5,493	217	25	1,731
12	Value added by manufacture.....do....	24,248	19,745	11,027	901	385	2,556
13	Cost of materials, etc.....do....	32,134	25,940	15,867	3,554	2,124	990
14	Value of shipments.....do....	56,383	45,686	26,895	4,456	2,509	3,546
15	Value added by resales.....do....	103	91	16	12	12	...
16	Cost of products bought and resold.....do....	423	291	76	131	130	...
17	Sales of products bought and resold.....do....	527	382	93	144	142	...
18	Total inventories, beginning of year.....do....	7,335	6,728	3,375	(4)	(4)	(4)
19	Total inventories, end of year.....do....	6,021	5,446	3,299	(4)	(4)	(4)
20	Capital expenditures, new.....do....	(4)	(4)	(4)	(4)	(4)	(4)
21	Number of employees for selected months:						
21	March.....	4,733	3,795	2,094	75	27	638
22	May.....	4,838	3,901	2,162	71	20	635
23	August.....	5,914	4,728	2,536	99	30	809
24	November.....	5,958	4,734	2,537	105	32	838
25	Cost of materials, fuel, electricity, and contract work, total.....\$1,000...	32,134	25,940	15,867	3,554	2,124	990
26	Materials, parts, containers, and supplies consumed.....do....	30,066	24,918	15,122	2,524	1,472	982
27	Electric energy:						
27	Purchased:						
28	Quantity.....million kwh...	2	1	1	(5)	(5)	(5)
28	Cost.....\$1,000...	90	65	32	20	12	4
29	Cost of contract work.....do....	1,968	957	701	1,007	638	(4)
30	Manufacturers' inventories:						
30	Beginning of year, total.....do....	7,335	6,728	3,375	(4)	(4)	(4)
31	Finished products.....do....	3,186	2,938	1,475	(4)	(4)	(4)
32	Work-in-process.....do....	986	794	(4)	(4)	(4)	(4)
33	Materials, supplies, fuel, etc.....do....	3,162	2,994	1,617	(4)	(4)	(4)
34	End of year, total.....do....	6,021	5,446	3,299	(4)	(4)	(4)
35	Finished products.....do....	2,488	2,240	1,459	(4)	(4)	(4)
36	Work-in-process.....do....	903	757	(4)	(4)	(4)	(4)
37	Materials, supplies, fuel, etc.....do....	2,629	2,449	1,493	(4)	(4)	(4)
38	Expenditures for plant and equipment, total.....do....	(4)	(4)	(4)	(4)	(4)	(4)
39	Capital expenditures, new.....do....	(4)	(4)	(4)	(4)	(4)	(4)
40	New structures and additions to plant.....do....	(4)	(4)	(4)	(4)	(4)	(4)
41	New machinery and equipment.....do....	(4)	(4)	(4)	(4)	(4)	(4)
42	Expenditures for used plant and equipment.....do....	(4)	(4)	(4)	(4)	(4)	(4)

Note: Plant specialization data are not shown for each of these industries as a whole since specialization ratios for contractors were not computed. Such ratios would not be meaningful since they could relate to only a minor portion of the contractors' total activity, that is, production on own account from materials owned by them, and might not be representative of the activity of the establishment as a whole.

<sup>1</sup>Data for these industries include 9 establishments with 1,132 employees, \$10,677 thousand value of shipments and \$4,529 thousand value added by manufacture which are not included in the separate totals for manufacturers, jobbers, or contractors.

## MISCELLANEOUS APPAREL AND ACCESSORIES

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FOR THE UNITED STATES: 1954—Continued

Belts (S.I.C. 2387)				Handkerchiefs (S.I.C. 2388)				Apparel, n.e.c. (S.I.C. 2389)	Line no.
Total <sup>1</sup>	"Manufac- turers" (S.I.C. 2387 Pt. A)	"Jobbers" (S.I.C. 2387 Pt. B)	"Contractors" (S.I.C. 2387 Pt. C)	Total	"Manufac- turers" (S.I.C. 2388 Pt. A)	"Jobbers" (S.I.C. 2388 Pt. B)	"Contractors" (S.I.C. 2388 Pt. C)		
92	(NA)	(NA)	(NA)	98	(NA)	(NA)	(NA)	90	1
94	(NA)	(NA)	(NA)	98	(NA)	(NA)	(NA)	91	2
503	396	10	97	100	34	27	39	139	3
335	256	8	71	56	17	18	21	97	4
151	126	2	23	36	13	7	16	33	5
17	14	...	3	8	4	2	2	9	6
12,571	10,309	84	2,047	3,513	1,594	690	1,229	3,501	7
35,403	30,023	232	4,710	7,792	3,751	1,924	2,116	10,569	8
10,789	8,728	68	1,885	3,178	1,451	531	1,195	2,950	9
19,639	16,184	124	3,144	5,179	2,574	646	1,958	5,670	10
25,176	20,913	147	3,837	5,797	3,010	808	1,978	7,489	11
58,010	48,214	1,929	7,287	14,366	7,062	4,647	2,656	15,582	12
48,298	41,779	2,607	3,559	25,894	12,637	12,863	393	11,413	13
106,311	89,994	4,538	10,847	40,261	19,701	17,510	3,050	26,996	14
2,389	2,343	2	43	726	216	480	30	1,010	15
3,667	3,606	3	57	2,558	835	1,598	124	2,398	16
6,057	5,949	6	100	3,285	1,052	2,078	154	3,408	17
10,648	9,767	(4)	518	8,864	5,336	3,264	(4)	4,746	18
10,083	9,292	(4)	(4)	8,728	5,265	3,233	(4)	4,535	19
658	542	(4)	(4)	(4)	(4)	(4)	(4)	(4)	20
12,783	10,406	81	2,162	3,469	1,559	661	1,249	3,479	21
12,171	9,837	80	2,126	3,378	1,543	655	1,180	3,672	22
12,428	10,347	78	1,874	3,552	1,642	712	1,198	3,478	23
12,902	10,647	96	2,026	3,652	1,632	731	1,290	3,375	24
48,298	41,779	2,607	3,559	25,894	12,637	12,863	393	11,413	25
46,083	40,654	1,616	3,477	19,757	11,800	7,597	373	10,745	26
300	270	(5)	(5)	1	1	(5)	(5)	2	27
152	135	4	12	79	29	36	13	58	28
2,051	990	991	69	6,046	808	5,230	7	595	29
10,648	9,767	(4)	518	8,864	5,336	3,264	(4)	4,746	30
3,800	3,671	(4)	(4)	4,853	2,851	1,907	(4)	1,663	31
1,954	1,669	(4)	(4)	2,724	1,884	733	(4)	740	32
4,894	4,427	(4)	(4)	1,287	599	623	(4)	2,343	33
10,083	9,292	(4)	(4)	8,728	5,265	3,233	(4)	4,535	34
3,673	3,551	(4)	(4)	4,927	2,784	2,057	(4)	1,646	35
1,813	1,620	(4)	(4)	2,555	1,863	605	(4)	547	36
4,596	4,121	(4)	(4)	1,245	617	570	(4)	2,341	37
697	575	(4)	(4)	(4)	(4)	(4)	(4)	(4)	38
658	542	(4)	(4)	(4)	(4)	(4)	(4)	(4)	39
(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	40
521	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	41
(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	42

<sup>2</sup>The specialization ratio compares the given industry's shipments of its primary products of its total shipments of all products. (The primary products are listed in Tables 5B and 6A; the first 4-digits of the product code represent the industry code to which the product is primary.)

<sup>3</sup>The coverage ratio measures the extent to which the total shipments of products primary to the given industry are shipped by establishments classified in that industry.

<sup>4</sup>Less than \$500 thousand.

<sup>5</sup>Less than 500 thousand kwh.

## MANUFACTURES--INDUSTRY STATISTICS

Table 4.—SELECTED STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR THE UNITED STATES: 1954

(Value figures in thousands of dollars. For explanation of line captions see Introduction. Data which cannot be shown without disclosing information for individual companies have been combined with figures for other size classes. A (D) appears in the column where the figure has been omitted and the combined figure is underlined and shown in the size-class to the left)

Ind. code	Industry and item	Total, all establishments	Establishments with an average of—									
			1-4 em- employees	5-9 em- employees	10-19 em- employees	20-49 em- employees	50-99 em- employees	100-249 employees	250-499 employees	500-999 employees	1,000-2,499 employees	2,500 employees and over
2381	Fabric dress gloves: <sup>1</sup>											
	Number of establishments..	110	25	16	19	21	18	8	3	...	...	...
	Number of employees.....	4,537	63	123	299	631	1,251	1,211	956	...	...	...
	Value added by manufacture	17,271	343	465	1,131	2,329	4,153	4,654	4,194	...	...	...
2381 Pt.A	"Manufacturers:"											
	Number of establishments..	80	17	13	13	12	16	7	2	...	...	...
	Number of employees.....	3,249	40	298	(D)	386	2,523	(D)	(D)	...	...	...
	Value added by manufacture	12,930	132	963	(D)	1,717	10,116	(D)	(D)	...	...	...
2381 Pt.B	"Jobbers:"											
	Number of establishments..	12	6	2	1	1	...	1	1	...	...	...
	Number of employees.....	595	32	(D)	561	(D)	...	(D)	(D)	...	...	...
	Value added by manufacture	2,620	314	(D)	2,304	(D)	...	(D)	(D)	...	...	...
2381 Pt.C	"Contractors:"											
	Number of establishments..	18	2	1	5	8	2	...	...	...	...	...
	Number of employees.....	447	96	(D)	(D)	350	(D)	...	...	...	...	...
	Value added by manufacture	1,030	228	(D)	(D)	801	(D)	...	...	...	...	...
2382	Fabric work gloves:											
	Number of establishments..	130	14	7	13	35	33	21	6	1	...	...
	Number of employees.....	10,084	41	46	194	1,244	2,236	3,420	2,900	(D)	...	...
	Value added by manufacture	29,561	285	253	561	3,643	6,275	10,703	7,838	(D)	...	...
2383	Suspenders and garters:											
	Number of establishments..	47	17	11	10	6	1	2	...	...	...	...
	Number of employees.....	934	36	74	155	218	450	(D)	...	...	...	...
	Value added by manufacture	4,194	160	235	801	744	2,253	(D)	...	...	...	...
2384	Robes and dressing gowns: <sup>1</sup>											
	Number of establishments..	328	58	46	67	101	32	22	2	...	...	...
	Number of employees.....	10,957	162	327	954	3,216	2,172	4,124	(D)	...	...	...
	Value added by manufacture	44,027	1,393	1,935	4,729	10,199	7,501	18,267	(D)	...	...	...
2384 Pt.A	"Manufacturers:"											
	Number of establishments..	111	28	13	17	22	14	15	2	...	...	...
	Number of employees.....	5,090	69	94	249	787	926	2,964	(D)	...	...	...
	Value added by manufacture	23,466	371	380	1,115	3,103	3,973	14,521	(D)	...	...	...
2384 Pt.B	"Jobbers:"											
	Number of establishments..	62	16	17	15	9	4	1	...	...	...	...
	Number of employees.....	1,073	54	118	204	302	393	(D)	...	...	...	...
	Value added by manufacture	7,618	773	1,199	2,161	1,643	1,840	(D)	...	...	...	...
2384 Pt.C	"Contractors:"											
	Number of establishments..	155	14	16	35	70	14	6	...	...	...	...
	Number of employees.....	4,601	39	115	500	2,127	1,820	(D)	...	...	...	...
	Value added by manufacture	11,813	249	356	1,451	5,452	4,304	(D)	...	...	...	...
2385	Waterproof outer garments: <sup>1</sup>											
	Number of establishments..	294	70	33	37	94	33	18	7	2	...	...
	Number of employees.....	12,872	201	230	548	3,006	2,279	2,679	3,927	(D)	...	...
	Value added by manufacture	59,342	1,028	1,440	3,881	13,076	8,934	13,973	17,008	(D)	...	...
2385 Pt.A	"Manufacturers:"											
	Number of establishments..	150	45	18	18	34	12	14	7	2	...	...
	Number of employees.....	8,142	127	128	260	1,068	851	2,086	3,620	(D)	...	...
	Value added by manufacture	37,630	525	545	1,172	4,571	3,397	11,491	15,926	(D)	...	...
2385 Pt.B	"Jobbers:"											
	Number of establishments..	41	15	9	7	7	2	1	...	...	...	...
	Number of employees.....	669	46	58	99	219	245	(D)	...	...	...	...
	Value added by manufacture	8,637	431	785	2,087	2,932	2,395	(D)	...	...	...	...
2385 Pt.C	"Contractors:"											
	Number of establishments..	103	10	6	12	53	19	3	...	...	...	...
	Number of employees.....	3,753	27	43	189	1,718	1,775	(D)	...	...	...	...
	Value added by manufacture	11,993	71	109	621	5,572	5,618	(D)	...	...	...	...
2386	Leather sheep-lined clothing: <sup>1</sup>											
	Number of establishments..	153	38	15	26	41	22	10	1	...	...	...
	Number of employees.....	5,361	101	115	366	1,369	1,563	1,845	(D)	...	...	...
	Value added by manufacture	24,248	710	558	1,454	6,230	7,005	8,288	(D)	...	...	...
2386 Pt.A	"Manufacturers:"											
	Number of establishments..	118	28	11	17	33	20	8	1	...	...	...
	Number of employees.....	4,290	156	(D)	231	1,116	2,783	(D)	(D)	...	...	...
	Value added by manufacture	19,745	795	(D)	777	5,343	12,828	(D)	(D)	...	...	...

See footnote at end of table.



## MISCELLANEOUS APPAREL AND ACCESSORIES

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Table 4.--SELECTED STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR THE UNITED STATES: 1954

(Value figures in thousands of dollars. For explanation of line captions see Introduction. Data which cannot be shown without disclosing information for individual companies have been combined with figures for other size classes. A (D) appears in the column where the figure has been omitted and the combined figure is underlined and shown in the size-class to the left)

Ind. code	Industry and item	Total, all establishments	Establishments with an average of--									
			1-4 em- employees	5-9 em- employees	10-19 em- employees	20-49 em- employees	50-99 em- employees	100-249 employees	250-499 employees	500-999 employees	1,000-2,499 employees	2,500 employees and over
2386	"Jobbers:"											
Pt.B	Number of establishments..	10	6	2	1	1	...	...	...	...	...	...
	Number of employees.....	87	15	<u>71</u>	(D)	(D)	...	...	...	...	...	...
	Value added by manufacture	901	281	<u>620</u>	(D)	(D)	...	...	...	...	...	...
2386	"Contractors:"											
Pt.C	Number of establishments..	25	4	2	8	7	2	2	...	...	...	...
	Number of employees.....	730	<u>151</u>	(D)	(D)	<u>579</u>	(D)	(D)	...	...	...	...
	Value added by manufacture	2,556	<u>458</u>	(D)	(D)	<u>2,098</u>	(D)	(D)	...	...	...	...
2387	Belts: <sup>1</sup>											
	Number of establishments..	503	115	98	122	108	43	14	2	1	...	...
	Number of employees.....	12,571	309	703	1,740	3,374	2,850	2,122	<u>1,469</u>	(D)	...	...
	Value added by manufacture	58,010	1,886	3,417	8,005	15,563	12,779	8,148	<u>8,209</u>	(D)	...	...
2387	"Manufacturers:"											
Pt.A	Number of establishments..	396	87	76	93	88	38	11	2	1	...	...
	Number of employees.....	10,309	235	546	1,331	2,744	2,465	1,516	<u>1,469</u>	...	...	...
	Value added by manufacture	48,214	1,347	2,749	6,260	11,876	11,411	6,359	<u>8,209</u>	...	...	...
2387	"Jobbers:"											
Pt.B	Number of establishments..	10	6	2	...	2	...	...	...	...	...	...
	Number of employees.....	84	12	<u>72</u>	...	(D)	...	...	...	...	...	...
	Value added by manufacture	1,929	202	<u>1,727</u>	...	(D)	...	...	...	...	...	...
2387	"Contractors:"											
Pt.C	Number of establishments..	97	22	20	29	18	5	3	...	...	...	...
	Number of employees.....	2,047	62	<u>1,124</u>	(D)	(D)	385	475	...	...	...	...
	Value added by manufacture	7,287	336	<u>4,373</u>	(D)	(D)	1,367	1,209	...	...	...	...
2388	Handkerchiefs:											
	Number of establishments..	100	22	14	20	17	19	8	...	...	...	...
	Number of employees.....	3,513	48	103	286	562	1,225	1,287	...	...	...	...
	Value added by manufacture	14,366	269	843	1,632	1,857	3,965	5,798	...	...	...	...
2388	"Manufacturers:"											
Pt.A	Number of establishments..	34	8	5	4	2	11	4	...	...	...	...
	Number of employees.....	1,594	16	<u>151</u>	(D)	(D)	683	743	...	...	...	...
	Value added by manufacture	7,062	134	<u>645</u>	(D)	(D)	2,471	3,810	...	...	...	...
2388	"Jobbers:"											
Pt.B	Number of establishments..	27	5	7	6	5	2	2	...	...	...	...
	Number of employees.....	690	11	54	88	163	<u>371</u>	...	...	...	...	...
	Value added by manufacture	4,647	77	626	1,037	924	<u>1,980</u>	...	...	...	...	...
2388	"Contractors:"											
Pt.C	Number of establishments..	39	9	2	10	10	6	2	...	...	...	...
	Number of employees.....	1,229	20	<u>495</u>	(D)	(D)	714	(D)	...	...	...	...
	Value added by manufacture	2,656	56	<u>1,097</u>	(D)	(D)	<u>1,501</u>	(D)	...	...	...	...
2389	Apparel, n.e.c.:											
	Number of establishments..	139	51	28	18	24	9	8	1	...	...	...
	Number of employees.....	3,501	117	208	262	786	639	<u>1,487</u>	(D)	...	...	...
	Value added by manufacture	15,582	629	1,044	1,039	3,571	2,648	<u>6,600</u>	(D)	...	...	...

Note: Detailed figures may not equal to the totals because of independent rounding.

<sup>1</sup>Data for these industries include 9 establishments with 1,132 employees, \$10,677 thousand value of shipments, and \$4,529 thousand value added by manufacture which are not included in the separate totals for manufacturers, jobbers, or contractors.

## MANUFACTURES--INDUSTRY STATISTICS

Table 5A.—INDUSTRY-PRODUCT ANALYSIS—SUMMARY OF INDUSTRY AND PRIMARY PRODUCT SHIPMENTS, SPECIALIZATION RATIOS AND COVERAGE RATIOS FOR THE UNITED STATES: 1954 AND 1947

Industry code	Industry and census year	Value of shipments					Value of primary products shipped			
		Total	Primary products	Secondary products	Miscellaneous receipts	Primary product specialization ratio <sup>1</sup>	Total (made in all industries)	Made in this industry	Made in other industries	Coverage ratio <sup>2</sup>
		(\$1,000) (A)	(\$1,000) (B)	(\$1,000) (C)	(\$1,000) (D)	Col. B Col. B+C (Percent) (E)	(\$1,000) (F)	(\$1,000) (G)	(\$1,000) (H)	Col. G Col. F (Percent) (I)
2381	Fabric dress gloves.....1954..	39,091	35,219	2,329	1,543	94	48,745	35,219	13,526	72
	1947..	30,848	25,033	3,144	2,671	89	53,479	25,033	28,446	47
2382	Fabric work gloves.....1954..	65,776	62,029	3,153	594	95	66,844	62,029	4,815	93
	1947..	73,722	68,895	4,260	567	94	72,001	68,895	3,106	96
2383	Suspenders and garters.....1954..	10,116	7,812	2,216	88	78	12,932	7,812	5,120	60
	1947..	14,563	10,757	3,701	105	74	19,824	10,757	9,067	54
2384	Robes and dressing gowns....1954..	107,964	87,180	6,657	14,127	93	103,183	87,180	16,003	84
	1947..	103,024	81,526	9,959	11,539	89	98,876	81,526	17,350	82
2385	Waterproof outer garments....1954..	119,660	94,122	12,157	13,381	89	116,572	94,122	22,450	81
	1947..	80,751	58,358	10,253	12,140	85	79,997	58,358	21,639	73
2386	Leather and sheep-lined clothing.....1954..	56,383	45,546	8,102	2,735	85	56,707	45,546	11,161	80
	1947..	40,555	30,797	8,089	1,669	79	38,457	30,797	7,660	80
2387	Belts.....1954..	106,311	89,329	7,673	9,309	92	95,007	89,329	5,678	94
	1947..	68,982	56,872	6,320	5,790	90	60,117	56,872	3,245	95
2388	Handkerchiefs.....1954..	40,261	35,946	801	3,514	98	36,790	35,946	844	98
	1947..	53,106	48,489	753	3,864	98	50,929	48,489	2,440	95
2389	Apparel, n.e.c.....1954..	26,996	22,390	2,504	2,102	90	24,516	22,390	2,126	91
	1947..	13,286	12,357	522	407	96	14,408	12,357	2,051	86

<sup>1</sup>The specialization ratio compares the given industry's shipments of its primary products to its total shipments of all products. (The primary products are listed in Tables 5B and 6A; the first 4-digits of the product code represent the industry code to which the product is primary.)

<sup>2</sup>The coverage ratio measures the extent to which the total shipments of products primary to the given industry are shipped by establishments classified in that industry.

## MISCELLANEOUS APPAREL AND ACCESSORIES

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Table 5B.—INDUSTRY-PRODUCT ANALYSIS—SHIPMENTS BY PRODUCT CLASS AND INDUSTRY, FOR THE UNITED STATES: 1954

(In thousands of dollars. The first column shows the total value of shipments of the specified industry divided among: (a) products classified in the industry (primary products), (b) products classified in other industries (secondary products) and (c) miscellaneous receipts. The value of shipments of the primary products of the specified industry reported by establishments not classified in that industry is shown under the caption "Other Industries". Industries accounting for significant amounts of the primary products listed are shown in separate columns provided that the figures for individual companies are not thereby disclosed. The last column shows the total value of shipments of the primary products of the industry by all manufacturing industries)

Prod. class code	Fabric dress gloves industry	Fabric dress gloves (S.I.C. 2381)	Knit glove mills (S.I.C. 2255)	Other industries	All industries	Prod. class code	Waterproof outer garments industry	Water-proof outer garments (S.I.C. 2385)	Rubber industries, n.e.c. (S.I.C. 3099)	Other industries	All industries
23810	Total industry shipments.	39,091	xxx	xxx	xxx	23850	Total industry shipments <sup>1</sup>	119,660	xxx	xxx	xxx
	Dress gloves and mittens, except all leather.....	35,219	7,800	5,726	48,745		Raincoats and other waterproof garments.....	94,122	9,530	12,920	116,572
	Secondary products.....	2,329	xxx	xxx	xxx		Secondary products.....	12,157	xxx	xxx	xxx
	Miscellaneous receipts.....	1,543	xxx	xxx	xxx		Miscellaneous receipts.....	13,381	xxx	xxx	xxx
	Contract and commission work..... Other.....	1,361 182	xxx xxx	xxx xxx	xxx xxx		Contract and commission work..... Other.....	13,192 189	xxx xxx	xxx xxx	xxx xxx
Prod. class code	Fabric work gloves industry	Fabric work gloves (S.I.C. 2382)	Other industries	All industries	Prod. class code	Leather and sheep-lined clothing industry	Leather and sheep-lined clothing (S.I.C. 2386)	Men's and boys' clothing, n.e.c. (S.I.C. 2329)	Other industries	All industries	
23820	Total industry shipments.	65,776	xxx	xxx	23860	Total industry shipments <sup>1</sup>	56,383	xxx	xxx	xxx	
	Work gloves and mittens, except all leather.....	62,029	4,815	66,844		Leather and sheep-lined clothing.....	45,546	7,976	3,185	56,707	
	Secondary products.....	3,153	xxx	xxx		Secondary products.....	8,102	xxx	xxx	xxx	
	31520	Work gloves and mittens, all leather.....	2,043	xxx		xxx	Miscellaneous receipts.....	2,735	xxx	xxx	xxx
		Other secondary products.....	1,110	xxx		xxx	Contract and commission work..... Other.....	2,701 (1)	xxx xxx	xxx xxx	xxx xxx
Prod. class code	Suspenders and garters industry	Suspenders and garters (S.I.C. 2383)	Other industries	All industries	Prod. class code	Belt industry		Belts (S.I.C. 2387)	Other industries	All industries	
					23870	Total industry shipments <sup>1</sup>	106,311	xxx	xxx		
						Primary products.....	89,329	5,678	95,007		
						Leather belts.....	50,495	2,174	52,669		
						Belts, other than leather belts, not specified by kind.....	32,173	3,215	35,388		
23830	Total industry shipments.	10,116	xxx	xxx	23830	Secondary products.....	6,661	289	6,950		
	Suspenders, garters and related products.....	7,812	5,120	12,932		Suspenders, garters, and related products.....	7,673	xxx	xxx		
	Secondary products.....	2,216	xxx	xxx		Other secondary products.....	2,624	xxx	xxx		
	23870	Miscellaneous receipts.....	88	xxx		xxx	Miscellaneous receipts.....	9,309	xxx	xxx	
		Contract and commission work..... Other.....	9,124 185	xxx xxx		xxx xxx					
Prod. class code	Robes and dressing gowns industry	Robes and dressing gowns (S.I.C. 2384)	Other industries	All industries	Prod. class code	Handkerchiefs industry	Handkerchiefs (S.I.C. 2388)	Other industries	All industries		
23841	Total industry shipments.	107,964	xxx	xxx	23880	Total industry shipments <sup>1</sup>	40,261	xxx	xxx		
	Primary products.....	87,180	16,003	103,153		Handkerchiefs, except embroidered.....	35,946	844	36,790		
	Robes and dressing gowns, except children's Breakfast coats, house-coats, and lounging pajamas.....	45,634	9,456	55,090		Secondary products.....	801	xxx	xxx		
	23842	Miscellaneous receipts.....	37,818	6,444		44,262	Miscellaneous receipts.....	3,514	xxx	xxx	
		Contract and commission work..... Other.....	3,728 299	103 xxx		3,801 xxx	Contract and commission work..... Other.....	3,514 164	xxx xxx	xxx xxx	
23840	Robes and dressing gowns, not specified by kind.....	3,728	103	3,801	23890	Apparel, n.e.c., industry	Apparel, n.e.c. (S.I.C. 2389)	Other industries	All industries		
	Secondary products.....	6,657	xxx	xxx		Total industry shipments <sup>1</sup>	26,996	xxx	xxx		
	Miscellaneous receipts.....	14,127	xxx	xxx		Apparel, n.e.c.....	22,390	2,126	24,516		
	23890	Contract and commission work.....	13,828	xxx		xxx	Secondary products.....	2,504	xxx	xxx	
		Other.....	299	xxx		xxx	Miscellaneous receipts.....	2,102	xxx	xxx	
						Contract and commission work.....	1,938	xxx	xxx		
						Other.....	164	xxx	xxx		

<sup>1</sup>Represents value of production.



## MANUFACTURES--INDUSTRY STATISTICS

Table 6A.- QUANTITY AND VALUE OF PRODUCTS, ALL MANUFACTURING ESTABLISHMENTS, FOR THE UNITED STATES: 1954 AND 1947

Product code	Product	Total shipments including interplant transfers			
		1954		1947	
		Quantity (1,000 dozen pairs)	Value (\$1,000)	Quantity (1,000 dozen pairs)	Value (\$1,000)
2381---	Dress and semi-dress gloves and mittens, except all leather, total.....	xxx	48,745	xxx	53,479
	Knit fabric dress and semi-dress gloves and mittens:				
	Men's and boys':				
	Seamed fingered gloves:				
2381011	50% or more wool content <sup>1</sup> .....	32	428	(2)	(2)
2381013	Cotton.....	207	602		
2381015	Rayon and acetate.....	13	40		
2381017	Nylon.....	12	198		
2381021	Seamless gloves, 50% or more wool content <sup>1</sup> .....	155	1,496	3307	33,105
	Seamless mittens:				
2381025	5% or more wool content <sup>1</sup> .....	30	276	(3)	(3)
2381027	Other.....	2	21	(2)	(2)
	Women's and misses':				
	Seamed fingered gloves:				
2381031	50% or more wool content <sup>1</sup> .....	21	271	(2)	(2)
2381033	Cotton.....	922	14,021		
2381035	Rayon and acetate.....	154	1,813		
2381037	Nylon.....	1,018	12,680		
2381039	Other.....	29	292		
	Seamless gloves:				
2381041	50% or more wool content <sup>1</sup> .....	204	2,147	423	3,823
2381043	Other.....	92	1,042	(2)	(2)
	Seamless mittens:				
2381045	50% or more wool content <sup>1</sup> .....	148	1,058	372	2,633
2381047	Other.....	1	11	(2)	(2)
2381051	Children's.....	403	2,055	(2)	(2)
2381055	Infants'.....	91	408	(2)	(2)
	Leather and fabric combination gloves and mittens:				
2381061	Men's and boys'.....	51	760	(2)	(2)
2381071	Women's, misses', and children's.....	6	85	(2)	(2)
2381081	Woven fabric gloves and mittens.....	345	4,564	103	526
2381098	Other dress and semi-dress gloves and mittens.....	11	32	24,540	243,392
2381000	Dress and semi-dress gloves and mittens, not specified by kind.....	xxx	4,445	xxx	xxx
2382---	Work gloves and mittens, except all leather, total.....	xxx	66,844	xxx	72,001
2382011	Leather and fabric combination.....	2,570	19,846	2,660	21,760
2382021	Canton flannel, except hot mill and husking.....	9,995	27,013	12,291	34,845
2382031	Fleeced cotton jersey.....	2,727	6,907	2,299	6,285
2382041	Lightweight circular-knit.....	1,204	1,654	1,284	2,597
2382051	Hot mill.....	374	2,091	1,674	6,514
2382061	Husking.....	1,063	3,021		
2382071	Terry cloth.....	384	1,784		
2382098	Other textile work gloves and mittens.....	620	2,686		
2382000	Work gloves and mittens, except all leather or rubber, not specified by kind.....	xxx	1,842		
Total production					
		1954		1947	
		Quantity (1,000 dozen)	Value (\$1,000)	Quantity (1,000 dozen)	Value (\$1,000)
2383---	Suspenders and garters, total.....	xxx	12,932	xxx	19,824
2383011	Suspenders.....	(NA)	7,678	1,585	11,503
	Garters, hose supporters and arm bands:				
2383031	Men's and boys'.....	(NA)	1,720	(NA)	3,396
2383051	Women's, children's and infants'.....	(NA)	3,534	6,355	4,925

See footnotes at end of table.

## MISCELLANEOUS APPAREL AND ACCESSORIES

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Table 6A.--QUANTITY AND VALUE OF PRODUCTS, ALL MANUFACTURING ESTABLISHMENTS, FOR THE UNITED STATES: 1954 AND 1947--Continued

Product code	Product	1954			1947 total production	
		Total production		Production of garments cut on contract (quantity) <sup>4</sup>	Quantity	Value
		Quantity	Value			
		(1,000 dozen)	(\$1,000)	(1,000 dozen)	(\$1,000)	
2384----	Robes and dressing gowns, total.....	xxx	103,183	xxx	xxx	98,876
23841	Robes and dressing gowns, men's, boys', and women's, except children's....	xxx	55,090	xxx	xxx	68,111
2384111	Men's and boys' robes, including smoking jackets.....	384	22,981	79	309	22,941
2384151	Women's, misses', and juniors' tufted robes.....	257	8,896	8	5870	545,170
2384155	Women's, misses', and juniors' robes, excluding tufted.....	379	22,689	125		
	Principal fabric used:					
	Cotton.....	136	6,377	(NA)	(NA)	(NA)
	Rayon and acetate.....	87	7,023			
	Wool.....	9	934			
	Silk.....	2	204			
	Nylon.....	66	4,857			
	Linen.....	...	...			
	Polyester and acrylic.....	1	246			
	Other, including fiber not specified.....	74	3,047			
2384100	Robes and dressing gowns, men's, boys', and women's, except children's, not specified by kind.....	xxx	524	xxx	xxx	...
23842	Breakfast coats, brunch coats, housecoats, and lounging pajamas.....	xxx	44,262	xxx	xxx	30,256
2384211	Women's, misses', and juniors': Breakfast coats, brunch coats, and housecoats, excluding robes and negligees.....	448	42,678	218	498	27,100
	Principal fabric used:					
	Cotton.....	537	20,587	(NA)	(NA)	(NA)
	Rayon and acetate.....	150	8,248			
	Wool.....	(D)	(D)			
	Silk.....	1	58			
	Nylon.....	68	3,889			
	Linen.....	...	...			
	Polyester and acrylic.....	(D)	(D)			
	Other, including fiber not specified.....	190	9,793			
2384251	Lounging pajamas.....	32	1,584	24	58	3,156
	Principal fabric used:					
	Cotton.....	12	462	(NA)	(NA)	(NA)
	Rayon and acetate.....	6	490			
	Wool.....	(D)	(D)			
	Silk.....	...	...			
	Nylon.....	(D)	(D)			
	Linen.....	...	...			
	Polyester and acrylic.....	...	...			
	Other, including fiber not specified.....	9	375			
2384000	Robes, and dressing gowns, not specified by kind.....	xxx	3,831	xxx	xxx	509
2385----	Waterproof outer garments, total.....	xxx	116,572	xxx	xxx	79,997
	Raincoats and raincoats:					
	Men's and boys':					
2385011	Plastic.....	223	7,268	15	(NA)	10,876
2385012	Resin-coated.....	76	1,435	xxx		
2385013	Rubberized.....	225	10,912	12	(NA)	14,766
2385015	Cotton gabardine, twill and poplin (not coated).....	112	7,373	21		
2385017	Oiled fabrics.....	7	369	1	(NA)	5,637
2385019	Other fabrics.....	43	4,286	12		
	Women's, misses', and juniors':					
2385051	Plastic.....	156	3,648	10	(NA)	64,384
2385052	Resin-coated.....	3	278	2		
2385053	Rubberized.....	6	409	2	(NA)	61,890
2385055	Cotton gabardine, twill and poplin (not coated).....	70	9,323	37	(NA)	614,106
2385057	Rayon.....	167	11,245	32	(NA)	616,248
2385059	Other fabrics.....	35	5,108	2	(NA)	63,498
2385061	Girls', teen-age girls' and children's (sizes 2-16).....	93	3,529	15	(NA)	6
2385071	Baby pants, and diaper covers, plastic and rubberized.....	4,391	18,623	223	(NA)	(NA)
2385075	Dress shields, plastic and rubberized.....	218	2,980	xxx	(NA)	7,056
	Aprons, smocks, and bibs, plastic and rubberized:					
2385077	Women's, misses', and juniors'.....	425	2,154	1	(NA)	(NA)
2385078	Girls', children's, and infants'.....	721	2,092	30		
2385081	Bathing and shower caps, plastic.....	86	468	6	(NA)	(NA)
2385000	Waterproof and water-repellent raincoats and other waterproof outer garments, not specified by kind.....	xxx	25,070	xxx	xxx	1,536

See footnotes at end of table.

## MANUFACTURES--INDUSTRY STATISTICS

Table 6A.--QUANTITY AND VALUE OF PRODUCTS, ALL MANUFACTURING ESTABLISHMENTS, FOR THE UNITED STATES: 1954 AND 1947--Continued

Product code	Product	1954			1947 total production	
		Total production		Production of garments cut on contract (quantity) <sup>4</sup>	Quantity	Value
		Quantity (1,000 dozen)	Value (\$1,000)		(1,000 dozen)	(\$1,000)
2386---	Leather and sheep-lined clothing, total.....	xxx	56,707	xxx	xxx	38,457
	Men's:					
2386011	{ Leather coats and jackets, quantity reported.....	180	29,927	22	7 8201	7 829,456
2386015	{ Leather coats and jackets, quantity not reported.....	xxx	2,704			
	Sheep-lined, excluding leather coats and jackets.....	28	1,194	xxx	746	75,896
	Boys' (sizes 4-20):					
2386031	Leather coats and jackets.....	89	10,321	7	(7)	(7)
2386035	Sheep-lined, excluding leather coats and jackets.....	(9)	(9)	xxx	(7)	(7)
	Women's, misses', and juniors' leather coats and jackets, quantity reported	55	7,984	8	7	1,566
2386051	{ Women's, misses', and juniors' leather coats and jackets, quantity not reported.....	xxx	2,027			
2386061	Girls', teen-age girls', and children's leather coats and jackets (sizes 2-16).....	(NA)	1,171	...	(NA)	81,539
2386098	Other leather and sheep-lined clothing.....	(NA)	1,379	...	(NA)	81,539
2387---	Apparel belts, total <sup>10</sup> .....	xxx	95,007	...	xxx	60,117
23871	Leather belts.....	xxx	52,669	xxx	xxx	39,981
2387111	{ Women's and children's leather belts, quantity reported.....	1,883	14,847	xxx	3,762	16,875
2387151	{ Women's and children's leather belts, quantity not reported.....	xxx	3,030			
	Men's and boys' leather belts.....	3,689	34,792	...	2,702	23,106
23872	Belts, other than leather.....	xxx	35,388	xxx	xxx	17,864
2387211	Women's and children's belts, except leather.....	14,734	30,128	1,347	5,266	15,093
2387251	Men's and boys' belts, except leather.....	844	5,260	141	436	2,771
2387000	Apparel belts, not specified by kind.....	xxx	6,950	xxx	xxx	2,272
2388---	Handkerchiefs, total.....	xxx	1036,790	xxx	xxx	50,929
	Men's and boys':					
2388011	Cotton.....	14,539	19,717	2,400	18,731	32,667
2388013	Linen and other fabrics.....	749	2,713			
2388015	Women's and children's:					
2388051	Cotton.....	6,402	10,203	742	10,018	18,262
2388053	Linen and other fabrics.....	1,039	4,157			
2388055						
2389---	Apparel, n.e.c., total.....	xxx	24,516	xxx	xxx	14,408

xxx Not applicable.

NA Not available.

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>The 1947 reporting form requested 25% or more wool content; the effect of the change to 50% or more wool for 1954 is believed to be negligible.<sup>2</sup>Included in "Other dress and semi-dress gloves and mittens." Figures on dress and semi-dress gloves and mittens as reported by type were not considered reliable enough to be presented separately. A distribution by type has been presented for 1947 in the Facts for Industry Series M67D-08.<sup>3</sup>Seamless mittens, 50% or more wool included with "Seamless men's and boys' gloves, 50% or more wool content."<sup>4</sup>Quantities are somewhat understated since a number of contractors did not specify the products cut; the contract receipts for such cuttings amounted to: Industry 2384, \$138 thousand; Industry 2385, \$746 thousand; and Industry 2387, \$286 thousand.<sup>5</sup>The 1947 figures contain an unknown quantity and value for breakfast coats and children's robes which were reported as women's robes.<sup>6</sup>For 1947, girls', teen-age girls', and children's (sizes 2-16) raincoats and raincoats are included with "Women's, misses', and juniors' raincoats and raincoats."<sup>7</sup>Boys' sizes (codes 2386031 and 2386035) included with men's sizes (codes 2386011 and 2386015).<sup>8</sup>Leather coats (part of code 2386011) included with other leather and sheep-lined clothing (code 2386098) for 1947.<sup>9</sup>Boys' sizes (code 2386035) included with men's sizes (code 2386015).<sup>10</sup>Does not include belts made and sold as parts of garments.



## MISCELLANEOUS APPAREL AND ACCESSORIES

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Table 6B.—VALUE OF PRODUCT CLASSES SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, BY DIVISIONS AND STATES FOR 1954, AND UNITED STATES TOTALS FOR EARLIER YEARS

(In thousands of dollars. Statistics are shown for selected product classes which are economically significant and production of which is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (Table 2) and they are not miscellaneous or "not specified by type" classes. For each product class, States are listed only if the value of shipments is more than \$1 million and the figure does not disclose individual company information. Additional States which had shipments of more than \$1 million of the individual product classes are listed in footnote 1)

Product class, region, and State <sup>1</sup>	Value of shipments	Product class, region, and State <sup>1</sup>	Value of shipments	Product class, region, and State <sup>1</sup>	Value of shipments
<u>Robes and dressing gowns, except children's (23841)</u>		<u>Raincoats and other waterproof clothing (23850)—Continued</u>		<u>Leather and sheep-lined clothing (23860)—Continued</u>	
1954 United States, total.....	55,090	Middle Atlantic.....	59,852	West North Central.....	4,535
1947 United States, total.....	68,111	New York.....	51,785	Missouri.....	1,969
1954		New Jersey.....	2,042	South.....	1,402
New England.....	7,345	Pennsylvania.....	6,024	Mountain.....	1,129
Massachusetts.....	2,320	East North Central.....	20,586	Pacific.....	8,491
Middle Atlantic.....	32,035	Ohio.....	2,896	<u>Leather belts (23871)</u>	
New York.....	27,631	Indiana.....	5,699	1954 United States, total.....	52,669
New Jersey.....	1,844	Illinois.....	2,359	1947 United States, total.....	39,981
Pennsylvania.....	2,560	Michigan.....	3,401	1954	
East North Central.....	2,168	Wisconsin.....	6,230	New England.....	3,346
West North Central.....	2,407	West North Central.....	2,217	Connecticut.....	1,841
South Atlantic.....	7,709	Missouri.....	2,050	Middle Atlantic.....	35,283
Georgia.....	5,227	South.....	7,041	New York.....	29,523
East South Central.....	1,919	Maryland.....	1,276	New Jersey.....	1,788
West.....	1,407	Georgia.....	2,163	Pennsylvania.....	3,971
<u>Breakfast coats, housecoats, and lounging pajamas (23842)</u>		Pacific.....	2,829	North Central.....	7,462
1954 United States, total.....	44,262	Oregon.....	1,012	Illinois.....	6,469
1947 United States, total.....	30,256	<u>Leather and sheep-lined clothing (23860)</u>		West South Central.....	3,477
1954		1954 United States, total.....	56,707	Texas.....	2,765
New England.....	3,680	1953 United States, total.....	52,615	Pacific.....	1,562
Middle Atlantic.....	34,391	1952 United States, total.....	44,289	California.....	1,562
New York.....	28,531	1951 United States, total.....	39,210	<u>Belts, other than leather (23872)</u>	
Pennsylvania.....	5,272	1947 United States, total.....	38,457	1954 United States, total.....	35,388
East North Central.....	2,298	1954		1953 United States, total.....	31,518
Illinois.....	2,062	New England.....	11,601	1952 United States, total.....	27,078
South.....	2,616	Massachusetts.....	8,215	1951 United States, total.....	25,602
<u>Raincoats and other waterproof clothing (23850)</u>		Middle Atlantic.....	22,621	1947 United States, total.....	17,864
1954 United States, total.....	116,572	New York.....	11,577	1954	
1953 United States, total.....	83,887	New Jersey.....	7,559	New England.....	1,226
1952 United States, total.....	87,111	Pennsylvania.....	3,484	Middle Atlantic.....	30,901
1951 United States, total.....	85,853	East North Central.....	5,928	New York.....	26,786
1947 United States, total.....	79,997	Illinois.....	2,999	New Jersey.....	2,076
1954		Wisconsin.....	2,143	Pennsylvania.....	2,038
New England.....	23,997			Pacific.....	1,038
Massachusetts.....	22,625			California.....	1,038

Note: The figures shown for 1950 to 1953 are sample estimates obtained from the Annual Survey of Manufactures for those years. Since the estimates are based on a sample they are subject to sampling variability, that is, they are not the same as figures which would have been obtained if complete censuses had been taken for those years. Measures of the sampling variability (standard errors) of the estimated total value of shipments of each product class are shown in the Annual Survey of Manufactures publications. Also shown are the standard errors of the relative change in shipments between some consecutive Annual Survey years which are the more significant measures when the series is studied for trend.

<sup>1</sup>For the specified product classes, shipments of over \$1 million were reported for the States listed but the exact figures are withheld to avoid disclosure of individual company figures: 23841, Maine, Connecticut, Illinois, Missouri, Delaware, Alabama, and California; 23842, Mississippi; 23850, Delaware and Virginia; 23860, Rhode Island, Connecticut, Minnesota, and California; 23871, Massachusetts.

## MANUFACTURES--INDUSTRY STATISTICS

Table 8.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY INDUSTRY SPECIALIZATION AND PRIMARY PRODUCT CLASS SPECIALIZATION, FOR THE UNITED STATES: 1954

(This table presents selected statistics for establishments classified according to their degree of specialization in products primary to the industry. The establishments are classified in two ways: (1) by industry specialization—the degree of specialization in all primary products of the industry; and (2) by product-class specialization—the degree of specialization in the largest product class of the establishment. The degree of "industry specialization" for an establishment represents the ratio of its primary product shipments to its total product shipments, primary and secondary. The degree of "product-class specialization" for an establishment represents the ratio of its largest product class shipments to its total product shipments, primary and secondary. Data are not shown for some industries, product classes, and specialization ranges for a variety of reasons, consequently, detailed figures frequently do not add to the totals. See Introduction for detailed explanation.)

Ind. or product class No.	Industry or product class by percent of specialization	Establishments, number	All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
2384 Pt.A	ROBES AND DRESSING GOWNS--"MANUFACTURERS" (all establishments).....	111	5,090	13,688	4,616	8,111	10,243	23,466	29,809	53,276
	Establishments with:									
	90% or more specialization.....	79	3,457	9,660	3,144	5,565	7,125	16,357	21,597	37,937
	75-89% specialization.....	11	639	1,775	554	947	1,180	3,243	3,821	7,065
	50-74% specialization.....	15	940	2,145	865	1,530	1,831	3,745	4,332	8,077
23841 Pt.A	Robes and dressing gowns, except children's--"Manufacturers":									
	All establishments specializing in product class.	48	3,113	7,551	2,882	5,056	5,960	12,398	15,762	28,161
	Establishments with:									
	90% or more specialization.....	29	2,028	5,019	1,897	3,405	4,034	7,715	10,431	18,146
	75-89% specialization.....	9	403	846	365	607	665	1,721	1,965	3,687
23842 Pt.A	Breakfast coats, house-coats and lounging pajamas--"Manufacturers":									
	All establishments specializing in product class.	39	1,593	5,120	1,393	2,511	3,511	9,433	12,225	21,659
	Establishments with:									
	90% or more specialization.....	22	1,001	3,481	872	1,550	2,217	6,675	9,060	15,735
	75-89% specialization.....	4	124	315	103	165	217	445	353	799
2384 Pt.B	ROBES AND DRESSING GOWNS--"JOBBER" (all establishments)	62	1,073	3,844	748	1,244	1,910	7,618	31,274	38,893
	Establishments with:									
	90% or more specialization.....	48	900	3,152	643	1,061	1,565	6,220	26,143	32,364
	75-89% specialization.....	5	46	229	27	53	113	524	2,122	2,646
	50-74% specialization.....	9	126	462	77	130	231	873	3,008	3,882
23841 Pt.B	Robes and dressing gowns, except children's--"Jobbers":									
	All establishments specializing in product class.	36	617	2,270	424	715	1,141	3,856	17,182	21,039
	Establishments with:									
	90% or more specialization.....	20	413	1,564	301	506	800	2,436	11,632	14,069
	75-89% specialization.....	6	59	284	37	72	134	684	2,866	3,551
	50-74% specialization.....	10	144	422	85	137	206	734	2,684	3,419
23842 Pt.B	Breakfast coats, house-coats and lounging pajamas--"Jobbers":									
	All establishments specializing in product class.	25	454	1,568	322	527	766	3,616	13,903	17,520
	Establishments with:									
	90% or more specialization.....	18	367	1,163	272	426	568	2,664	10,705	13,370
2385 Pt.A	WATER-PROOF OUTER GARMENTS--"MANUFACTURERS" (all establishments).....	150	8,142	22,003	7,038	12,873	16,632	37,630	34,623	72,254
	Establishments with:									
	90% or more specialization.....	106	4,501	12,492	4,009	7,356	9,846	23,119	22,611	45,730
	75-89% specialization.....	13	1,143	3,043	971	1,569	2,057	4,522	3,467	7,990
2385 Pt.B	WATERPROOF OUTER GARMENTS--"MANUFACTURERS" (all establishments).....	41	669	2,717	420	797	1,257	8,637	23,245	31,882
	90% or more specialization.....	35	614	2,502	397	768	1,200	7,240	20,302	27,543
2386 Pt.A	LEATHER AND SHEEP-LINED CLOTHING--"MANUFACTURERS" (all establishments).....	118	4,290	12,862	3,664	6,395	9,481	19,745	25,940	45,686
	Establishments with:									
	90% or more specialization.....	81	2,332	7,136	2,032	3,689	5,493	11,027	15,867	26,895
	75-89% specialization.....	13	437	1,143	387	634	865	1,925	2,149	4,075
	50-74% specialization.....	19	905	2,836	769	1,305	2,035	4,181	5,528	9,709
	All other.....	5	614	1,745	475	766	1,087	2,611	2,395	5,006
2387 Pt.A	BELTS--"MANUFACTURERS" (all establishments).....	396	10,309	30,023	8,728	16,184	20,913	48,214	41,779	89,994
	Establishments with:									
	90% or more specialization.....	346	7,833	22,854	6,724	12,337	16,492	37,251	30,977	68,229
	75-89% specialization.....	15	925	3,064	706	1,327	1,636	5,120	4,382	9,503
	50-74% specialization.....	27	784	1,968	690	1,312	1,519	3,544	2,788	6,333
	All other.....	8	766	2,137	607	1,207	1,265	2,297	3,630	5,928
23871 Pt.A	Leather belts--"Manufacturers":									
	All establishments specializing in product class.	162	5,288	16,920	4,234	8,172	10,952	27,249	24,713	51,963
	Establishments with:									
	90% or more specialization.....	116	2,832	9,182	2,262	4,329	6,156	15,553	13,136	28,689
	75-89% specialization.....	13	473	1,479	410	829	1,147	2,915	2,647	5,563
	50-74% specialization.....	26	1,259	4,230	988	1,854	2,448	6,642	5,454	12,096
	All other.....	7	723	2,028	572	1,159	1,199	2,138	3,475	5,614

See footnote at end of table.

## MISCELLANEOUS APPAREL AND ACCESSORIES

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Table 8.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY INDUSTRY SPECIALIZATION AND PRIMARY PRODUCT CLASS SPECIALIZATION, FOR THE UNITED STATES: 1954—Continued

Ind. or product class No.	Industry or product class by percent of specialization	Establishments, number	All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
2387	BELTS--"MANUFACTURES"--Continued									
23872	Belts other than leather--"Manufacturers":									
Pt.A	All establishments specializing in product class.	161	4,021	10,505	3,598	6,415	8,007	16,889	14,063	30,953
	Establishments with:									
	90% or more specialization.....	117	2,681	7,066	2,416	4,216	5,397	11,198	9,701	20,900
	75-89% specialization.....	11	374	913	335	580	727	1,348	844	2,193
	50-74% specialization.....	29	822	2,138	720	1,386	1,586	3,816	3,071	6,887
	All other .....	4	143	387	127	232	297	525	446	972

Note: Plant specialization data are not shown for industries as a whole since specialization ratios for contractors were not computed. Such ratios would not be meaningful since they could relate to only a minor portion of the contractors' total activity, that is, production on own account from materials owned by them, and would not be representative of the activity of their establishments as a whole.

<sup>1</sup>This class includes data for establishments with less than 50 percent specialization in the primary products of the industry. Miscellaneous small statistical adjustments are also included.





## Miscellaneous Fabricated Textile Products

This report shows 1954 Census of Manufactures statistics for establishments primarily engaged in fabricating textile products (other than apparel) from purchased fabrics. These establishments are classified in the following nine industries:

Code	Title
2391	Curtains and Draperies
2392	Housefurnishings, Not Elsewhere Classified
2393	Textile Bags
2394	Canvas Products
2395	Tucking, Pleating, and Stitching
2396	Trimmings and Art Goods
2397	Schiffli-Machine Embroideries
2398	Embroideries, except Schiffli
2399	Textile Products, Not Elsewhere Classified

There is very little integration of prior production processes such as fabric weaving and yarn spinning in the individual establishments classified in Industry Group 239. Establishments weaving fabric and further processing the material into fabricated products such as sheets, towels, pillowcases and blankets are classified according to the principal type of broad-woven fabric made in the establishment:—in Industry 2213, Woolen and Worsted Fabrics; Industry 2233, Cotton Broad-Woven Fabrics; or Industry 2234, Rayon and Related Fabrics. The extent to which fabricated textile products are made in industries in Group 239 and other industries is shown in Table 5.

Some fabricated textile products are produced in establishments classified in retail or service industries and not included in the Census of Manufactures. The value of the products manufactured by these nonmanufacturing establishments was not obtained in the 1954 Census. Some examples of the types of products made by these establishments are curtains, draperies, bedspreads, furniture slipcovers, cushions, awnings, and automobile seat covers.

Establishments which bleached, dyed, printed or otherwise finished fabrics prior to cutting and fabricating are included in the applicable fabricating industry and not in Industries 2216—Dyeing and Finishing Wool Textiles, or 2261—Finishing Textiles, Except Wool.

### 2391—Curtains and Draperies

This industry comprises establishments primarily engaged in manufacturing curtains and draperies from purchased fabric. Establishments primarily engaged in manufacturing window curtains and draperies from plastics or fiber glass fabrics are also included in this industry.

Establishments primarily engaged in manufacturing lace curtains and draperies are classified in Industry 2292, Lace Goods; shower-bath curtains in Industry 2392, Housefurnishings, N.E.C.; and paper draperies in Industry 2699, Converted Paper Products, N.E.C.

For a detailed list of primary products of Industry 2391, refer to Table 6A, product codes 2391011 to 2391059.

The value of shipments of Industry 2391, Curtain and Draperies, in 1954 totaled \$173 million. This included shipments of primary products (curtains and draperies) valued at \$149 million, shipments of secondary products valued at \$10 million, and miscellaneous receipts (mainly contract work on materials owned by others) of \$14 million.

Industry 2391 shipments of curtains and draperies in 1954 represented 94 percent of its total product shipments (primary and secondary). In 1947, this primary product specialization

ratio was 97 percent. Secondary products shipped by this industry in 1954 consisted of bedspreads and bed sets \$5 million, and miscellaneous fabricated textile products \$3 million.

Industry 2391 shipments of curtains and draperies in 1954 represented 89 percent of these products valued at \$111 million shipped by all industries. In 1947, this coverage ratio was 90 percent. The principal other industry shipping curtains and draperies in 1954 was Industry 2392, Housefurnishings, N.E.C. \$9 million.

### 2392—Housefurnishings, Not Elsewhere Classified (Full Standard Industrial Classification Title: Housefurnishings, except Curtains and Draperies)

This industry comprises establishments primarily engaged in manufacturing housefurnishings from purchased fabric. Important products of this industry include sheets, pillowcases, napkins, table cloths, comforters, blankets, bedspreads, pillows, laundry bags, mops and dusters, and slip covers. Other products included in this industry are chair covers; cushions (except spring, foam rubber, and carpet); garment bags, except paper; mattress protectors, except rubber; quilts; shower-bath curtains; towels and wash cloths.

Establishments primarily engaged in knitting fabrics and manufacturing knit towels and wash cloths are classified in Industry 2259, Knitting Mills, N.E.C. Establishments primarily producing the following items are classified elsewhere: lace bedspreads and table covers in Industry 2292, Lace Goods; spring cushions in Industry 2515, Mattresses and Bedsprings; paper wardrobe and garment bags in Industry 2661, Paper Bags; rubber mattress protectors and foam rubber pillows in Industry 3099, Rubber Industries, N.E.C.; electric bed coverings (including blankets, sheets, and comforters) in Industry 3621, Electrical Appliances; and curtains and draperies in Industry 2391, Curtains and Draperies.

Data for 1954 for this industry are not closely comparable to information shown for prior years. Some fabricating departments of textile mills producing cotton towels, sheets and pillowcases, which had been reported as separate establishments in 1947, were integrated with the weaving mill in 1954 and included in one report in Industry 2233 Cotton Broad-Woven Fabrics. Such fabricating departments accounted for more than 15 percent of the 1947 employment shown for the Housefurnishings, N.E.C. Industry. In addition a number of textile mills producing sheets and pillowcases in 1947, reported such products as gray cotton broad-woven fabrics, code 2233. This understatement, in addition to its effect on the product statistics, also raised the published 1947 coverage ratio for Industry 2392 above its true level.

For a detailed list of primary products of Industry 2392 refer to Table 6A, product codes 2392121 to 2392498.

The value of shipments and other receipts of Industry 2392, Housefurnishings, N.E.C., in 1954 totaled \$503 million. This included shipments of primary products (housefurnishings, n.e.c.) valued at \$434 million, shipments of secondary products valued at \$43 million, and miscellaneous receipts (mainly contract work on materials owned by others) of \$26 million.

Industry 2392 shipments of primary products (housefurnishings, n.e.c.) in 1954 represented 91 percent of its total product shipments (primary and secondary). In 1947, this primary product specialization ratio was 93 percent. Secondary products shipped by this industry in 1954 included curtains and draperies, except lace, \$9 million, tufted carpets and rugs, \$4 million, and fabricated textile products, n.e.c., \$7 million.

Industry 2392 shipments of primary products in 1954 represented 59 percent of these products valued at \$739 millions shipped by all industries. In 1947, this coverage ratio was 87 percent. This decline in coverage ratio is due to the change in reporting procedure for fabricating departments of textile mills and misreporting in 1947 as described above. The principal other industry shipping housefurnishings, n.e.c. in 1954 consisted of Industry 2233, Cotton Broad-Woven Fabrics, \$228 million.

#### 2393—Textile Bags

This industry comprises establishments primarily engaged in manufacturing cotton, burlap, canvas, and other textile bags from purchased fabric. Establishments primarily engaged in manufacturing textile laundry and wardrobe bags, are classified in Industry 2392, Housefurnishings, N.E.C.

Establishments primarily engaged in reconditioning textile bags in 1954 were excluded from manufacturing but reconditioning activities of manufacturing plants are included. In the 1947 Census, establishments solely engaged in reconditioning textile bags were also excluded from the scope of the manufacturing Census; however, there is some noncomparability with 1954 as plants shipping new and reconditioned textile bags excluded their costs and receipts for reconditioning.

For a detailed list of primary products of Industry 2393 refer to Table 6A, product codes 2393011 to 2393098.

The value of shipments of Industry 2393, Textile Bags, in 1954 totaled \$221 million. This included shipments of primary products (textile bags) valued at \$179 million, shipments of secondary products valued at \$34 million, and miscellaneous receipts of \$8 million. Receipts for merchandising (products bought and resold without further manufacture or processing) valued at \$33 million are excluded from the \$221 million value of shipments of Industry 2393. Data relating to these merchandising receipts are also excluded from the cost of materials and value added, but these activities are reflected in other detailed industry statistics, mainly employment and inventory.

Industry 2393 shipments of textile bags (primary products) in 1954 represented 84 percent of its total product shipments (primary and secondary). In 1947, this primary product specialization ratio was 93 percent. Secondary products shipped by this industry in 1954 consisted mainly of paper bags and paper shipping sacks, \$22 million, canvas products, \$3 million, and jute goods, \$2 million.

Industry 2393 shipments of textile bags in 1954 represented 85 percent of the textile bags valued at \$210 million shipped by all industries. In 1947, this coverage ratio was 98 percent. The principal other industry shipping textile bags in 1954 was Industry 2233, Cotton Broad-Woven Fabrics, \$14 million.

#### 2394—Canvas Products

This industry comprises establishments primarily engaged in manufacturing awnings, tents, sails, canvas covers, tarpaulins, and canopies from purchased canvas. Other canvas products included in this industry are industrial aprons and painters' drop cloths.

Excluded from this industry are establishments primarily engaged in manufacturing canvas bags, which are classified in Industry 2393, Textile Bags; rubber-soled canvas shoes, in Industry 3021, Rubber Footwear; and canvas boots, in Industry 3141, Footwear, Except Rubber.

For a detailed list of primary products of Industry 2394, refer to Table 6A, product codes 2394011 to 2394098.

The value of shipments of Industry 2394, Canvas Products, in 1954 totaled \$130 million. This included shipments of primary products (canvas products) valued at \$107 million, shipments of secondary products valued at \$13 million, and miscellaneous receipts (mainly repair work, installation work, and contract work on materials owned by others) of \$9 million.

Receipts for merchandising (products bought and resold without further manufacture or processing) valued at \$18 million

are excluded from the \$130 million value of shipments of Industry 2394. Data relating to these merchandising receipts are also excluded from the cost of materials and value added, but these activities are reflected in other detailed industry statistics, mainly employment and inventory.

Industry 2394 shipments of canvas products in 1954 represented 89 percent of its total product shipments (primary and secondary). In 1947, this primary product specialization ratio was 91 percent. Secondary products shipped by industry 2394 in 1954 consisted mainly of textile bags, \$3 million and housefurnishings \$2 million.

Industry 2394 shipments of canvas products in 1954 represented 86 percent of these products valued at \$124 million shipped by all manufacturing industries. In 1947, this coverage ratio was 93 percent. Industry 2233 Cotton Broad-Woven fabrics, and other industries in Industry Group 239, Miscellaneous Fabricated Textile Products, accounted for most of the remaining shipments of canvas products.

#### 2395—Tucking, Pleating, and Stitching (Full Standard Industrial Classification Title: Pleating, Stitching, and Tucking for the Trade)

This industry comprises establishments primarily engaged in pleating, stitching, and tucking for the trade. Other services for the trade performed by establishments in this industry include appliqueing, buttonhole making, hemstitching, ruffling, scalloping, and shirring. Establishments primarily engaged in performing similar services for individuals are classified in Service industries and are excluded from the Census of Manufactures. Establishments primarily engaged in manufacturing trimmings and art needlework are classified in Industry 2396, Schiffli-machine embroideries in Industry 2397, and embroideries, except Schiffli-machine, in Industry 2398.

The value of shipments and other receipts for Industry 2395 in 1954 totaled \$35 million. More than 99 percent of this total represents receipts for commission work on materials owned by others. A breakdown of such receipts by type of work is not available. However, a review of the reports indicates that almost all such receipts are for pleating, stitching, tucking, and similar services for the trade. Excluded from the \$35 million is the value of tucking, pleating and stitching performed as part of the manufacturing operations of plants producing finished products.

#### 2396—Trimmings and Art Goods (Full Standard Industrial Classification Title: Trimmings, Stamped Art Goods, and Art Needlework)

This industry comprises establishments primarily engaged in manufacturing trimmings for millinery and other uses, stamped art goods, and art needlework. Other products included in this industry are: bias binding; automobile and furniture trimmings; and women's and children's apparel findings.

Establishments primarily engaged in manufacturing narrow fabric bindings, ribbons, and tapes are classified in Industry 2241, Narrow Fabric Mills; men's hat linings and other hat trimmings in Industry 2326, Hat and Cap Materials. For a detailed list of primary products of Industry 2396, refer to Table 6A, product codes 2396011 to 2396098.

The value of shipments of Industry 2396, Trimmings and Art Goods, in 1954 totaled \$243 million. This included shipments of primary products (trimmings and art goods) valued at \$222 million, shipments of secondary products valued at \$7 million, and miscellaneous receipts (mainly contract work on materials owned by others) of \$14 million.

Industry 2396 shipments of primary products (trimmings and art goods) in 1954 represented 97 percent of its total product shipments (primary and secondary). In 1947, this primary product specialization ratio was 94 percent.

Industry 2396 shipments of trimmings and art goods in 1954 represented 83 percent of these products valued at \$267 million shipped by all industries. In 1947, this coverage ratio was 95 percent.



2397—Schiffli-Machine Embroideries

This industry comprises establishments primarily engaged in manufacturing Schiffli-machine embroideries and burnt-out laces. These products are made in part in "family plants," which do not employ production or other workers and are excluded from the Census of Manufactures.

The value of product shipments and other receipts of Industry 2397, Schiffli-Machine Embroideries, in 1954 totaled \$66 million. This included shipments of Schiffli-machine embroidery products valued at \$49 million, shipments of secondary products valued at \$1 million, and other receipts of \$16 million, primarily receipts for contract work on materials owned by others. The industry's total receipts for primary activities (\$49 million) thus represented 98 percent of its total receipts for all manufactured products \$50 million in 1954. In 1947, this specialization ratio was also 98 percent.

Industry 2397 shipments of Schiffli-machine embroideries in 1954 represented 99 percent of these products valued at \$50 million shipped by all industries. In 1947, this coverage ratio was 96 percent.

2398—Embroideries, Except Schiffli (Full Standard Industrial Classification Title: Embroideries, Except Schiffli-Machine)

This industry comprises establishments primarily engaged in manufacturing Swiss loom and other machine-made or hand-made embroideries, such as machine-made crocheted embroideries, and Bonnaz and Cornely products. Establishments primarily engaged in manufacturing Schiffli-machine embroideries are classified in Industry 2397, Schiffli-Machine Embroideries; hand-made crochet ware are classified in Industry 2399, Textile Products, N.E.C.

The value of shipments and other receipts of Industry 2398, Embroideries, Except Schiffli, in 1954 totaled \$56 million. This included shipments of primary products (embroideries, except Schiffli) valued at \$30 million, shipments of secondary products valued at \$1 million, and miscellaneous receipts (mainly contract work on materials owned by others) of \$25 million.

Industry 2398 shipments of primary products (embroideries, except Schiffli) in 1954 thus represented 98 percent of its total product shipments (primary and secondary). In 1947, this primary product specialization ratio was 97 percent.

Industry 2398 shipments of embroideries, except Schiffli, in 1954 represented 96 percent of these products valued at \$32 million shipped by all industries. In 1947, this coverage ratio was also 96 percent.

2399—Textile Products, Not Elsewhere Classified

This industry comprises establishments primarily engaged in manufacturing fabricated textile products, not elsewhere classified, such as automobile seat covers, banners, flags, and pennants from purchased fabric. Establishments primarily engaged in the sponging, shrinking, burling or mending of cloth for the trade, or in employing home workers for hand-knitting or hand-weaving of textile products are also included in this industry. Other textile products included in this industry are: textile badges and insignia; blackboard erasers; diapers; hand-made crochet-ware; powder puffs; hand-woven rugs; saddle cloths; and sleeping bags. Establishments primarily engaged in manufacturing machine-made crochet ware are classified in Industry 2398, Embroideries, Except Schiffli. For a detailed list of primary products of Industry 2399, refer to Table 6A, product codes 2399011 to 2399098.

The value of shipments of Industry 2399, Textile Products, N.E.C., in 1954 totaled \$201 million. This included shipments of primary products (fabricated textile products, n.e.c.) valued at \$155 million, shipments of secondary products valued at \$24 million, and miscellaneous receipts (mainly contract work on materials owned by others) of \$22 million.

Industry 2399 shipment of primary products (fabricated textile products, n.e.c.) in 1954 represented 87 percent of its total product shipments (primary and secondary). In 1947, this primary product specialization ratio was 88 percent. Housefurnishings, n.e.c. was one of the principal secondary products shipped by this industry in 1954, \$5 million.

Industry 2399 shipments of primary products in 1954 represented 77 percent of these products valued at \$201 million shipped by all industries. In 1947, this coverage ratio was 87 percent. Other industries shipping products primary to Industry 2399 consisted mainly of other industries of Industry Group 239, Miscellaneous Fabricated Textiles, \$10 million, and Industry 2233 Cotton Broad-Woven Fabrics \$7 million.

The general statistics (employment, payrolls, value of shipments, cost of materials, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products, and, for that matter, their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (Tables 1-4) with product statistics (Table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in Table 5A which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry made as secondary products by establishments classified in other industries.

## MANUFACTURES—INDUSTRY STATISTICS

Table 1.—GENERAL STATISTICS FOR THE UNITED STATES: 1954 AND EARLIER YEARS  
(For explanation of column captions see Introduction)

Industry and census year	Establishments, number	All employees		Production workers		Value added by manufacture <sup>2</sup> (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments <sup>3</sup> (\$1,000)
		Number <sup>1</sup>	Payroll (\$1,000)	Number <sup>1</sup>	Wages (\$1,000)			
Curtains and draperies (S.I.C. 2391):								
1954.....	716	13,988	36,899	12,350	27,304	61,392	111,275	172,668
1947.....	397	7,982	17,081	6,928	11,702	34,909	74,731	109,640
1939 <sup>4</sup> .....	327	(NA)	(NA)	7,691	5,310	13,653	32,825	46,478
Housefurnishings, n.e.c. (S.I.C. 2392):								
1954 <sup>5</sup> .....	1,213	36,188	97,105	31,948	71,686	173,910	329,293	503,203
1953 <sup>6</sup> .....	(NA)	42,179	112,843	38,109	89,739	200,619	460,475	661,094
1952 <sup>6</sup> .....	(NA)	43,959	116,234	39,349	88,269	224,839	484,638	709,477
1951 <sup>6</sup> .....	(NA)	38,175	98,671	34,152	74,633	183,849	489,166	673,015
1947.....	1,232	39,946	78,272	36,119	62,565	155,715	346,746	502,461
1939 <sup>4</sup> .....	584	(NA)	(NA)	20,096	13,219	34,219	59,758	93,977
Textile bags (S.I.C. 2393):								
1954.....	268	12,109	35,120	9,897	24,329	51,641	169,337	220,978
1953 <sup>6</sup> .....	(NA)	11,854	34,449	9,873	24,185	52,781	179,769	232,550
1951 <sup>6</sup> .....	(NA)	17,073	46,890	14,533	32,774	101,416	328,383	429,799
1950 <sup>6</sup> .....	(NA)	16,524	41,149	14,124	29,900	81,146	277,937	359,083
1947.....	232	13,850	28,279	12,129	20,984	66,320	289,661	355,981
1939.....	216	13,903	14,531	11,991	10,003	27,895	93,807	121,702
1937.....	186	13,449	13,161	12,075	9,749	26,276	103,725	130,001
1935.....	198	12,187	11,189	10,920	8,048	23,565	88,001	111,566
1933.....	169	11,757	9,526	10,543	6,977	22,578	769,537	92,115
1931.....	189	(NA)	(NA)	11,985	9,111	25,818	79,173	104,991
1929.....	32	13,475	14,379	11,828	9,645	25,901	144,275	170,176
1927.....	31	12,709	13,738	11,164	9,548	26,202	136,748	162,950
1925.....	162	12,933	13,075	11,404	9,332	24,980	150,102	175,082
1923.....	169	13,321	13,301	11,548	9,361	23,454	128,222	151,676
1921.....	169	11,786	11,444	10,324	8,032	16,014	99,438	115,452
1919.....	216	12,476	11,850	10,756	7,757	38,041	176,018	214,059
1914.....	138	10,314	5,307	9,358	3,789	12,028	67,021	79,049
1909.....	109	8,766	4,010	7,968	2,942	8,518	46,364	54,882
1904.....	79	6,254	2,430	5,722	1,829	6,641	30,758	37,399
1899.....	73	4,258	1,482	3,922	1,102	3,213	16,439	19,652
Canvas products (S.I.C. 2394):								
1954.....	1,119	13,540	40,180	10,724	25,917	61,442	68,170	129,611
1947 <sup>8</sup> .....	903	10,603	24,751	8,669	17,491	41,424	49,684	91,108
Tucking, pleating and stitching (S.I.C. 2395):								
1954.....	491	6,453	17,602	6,021	14,828	27,904	6,674	34,578
1947.....	531	5,929	12,421	5,532	11,035	21,339	3,898	25,237
1939 <sup>4</sup> .....	273	(NA)	(NA)	4,254	4,381	8,420	1,207	9,627
Trimming and art goods (S.I.C. 2396):								
1954.....	836	17,754	55,623	15,045	40,558	87,687	155,228	242,915
1953 <sup>6</sup> .....	(NA)	16,494	54,721	14,135	41,347	89,455	152,222	241,677
1947.....	785	14,521	32,720	12,676	24,622	62,587	65,085	127,672
1939 <sup>4</sup> .....	383	(NA)	(NA)	5,455	4,454	13,485	17,777	31,262
Schiffli-machine embroideries (S.I.C. 2397):								
1954.....	601	5,715	19,739	5,061	14,772	34,396	31,435	65,834
1947.....	546	5,678	15,054	5,080	11,681	31,733	23,781	55,514
1939.....	398	4,176	4,317	3,750	3,248	7,993	6,129	14,122
1937.....	271	3,039	3,188	2,757	2,417	5,738	4,451	10,189
1935.....	308	2,640	2,815	2,360	2,162	5,355	4,263	9,618
1933 <sup>9</sup> .....	547	(NA)	(NA)	4,652	3,874	7,933	4,261	12,194
1931.....	329	(NA)	(NA)	2,473	2,786	6,562	4,341	10,903
1929.....	326	3,026	3,841	2,757	3,119	7,744	4,104	11,848
1927 <sup>10</sup> .....	412	3,628	4,923	3,276	4,041	9,051	6,296	15,347
Embroideries, except schiffli (S.I.C. 2398):								
1954.....	926	10,803	26,880	10,041	22,178	41,280	14,875	56,155
1947.....	787	9,836	20,234	9,308	17,627	34,521	9,871	44,392
1939.....	411	5,260	4,581	4,797	3,828	7,613	2,294	9,907
1937.....	314	4,294	4,028	3,942	3,318	6,440	2,148	8,588
1935 <sup>9</sup> .....	351	3,737	3,652	3,351	2,991	5,619	2,173	7,792
1931.....	403	(NA)	(NA)	3,088	3,544	6,812	2,510	9,322
1929.....	487	4,316	5,866	3,865	4,749	9,822	3,617	13,439
1927 <sup>10</sup> .....	657	6,333	8,089	5,688	6,921	12,845	4,227	17,072

See footnotes at end of table.

## MISCELLANEOUS FABRICATED TEXTILE PRODUCTS

23F-5

Table 1.--GENERAL STATISTICS FOR THE UNITED STATES: 1954 AND EARLIER YEARS--Continued  
(For explanation of column captions see Introduction)

Industry and census year	Establishments, number	All employees		Production workers		Value added by manufacture <sup>2</sup> (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments <sup>3</sup> (\$1,000)
		Number <sup>1</sup>	Payroll (\$1,000)	Number <sup>1</sup>	Wages (\$1,000)			
Textile products, n.e.c. (S.I.C. 2399):								
1954.....	1,104	18,006	52,167	15,280	37,314	87,272	113,923	201,198
1953 <sup>6</sup> .....	(NA)	21,801	60,602	18,836	45,260	104,972	123,506	228,478
1950 <sup>6</sup> .....	(NA)	20,741	48,582	17,592	34,780	80,185	111,163	191,348
1947.....	837	18,318	42,356	15,859	30,915	79,879	109,753	189,632
1939 <sup>4</sup> .....	372	(NA)	(NA)	6,911	6,376	18,847	17,802	36,649

NA Not available.

<sup>1</sup>For the period 1949-1954, figures are based on employment for the payroll periods ended nearest the 15th of March, May, August and November. For 1947, they represent the average of 12 monthly figures. For earlier years, the production worker average was calculated as in 1947, but the figure for all employees represents the sum of the annual average number of production workers and the number of nonproduction workers reported for one payroll period (usually in October).

<sup>2</sup>Value of products less cost of materials, supplies, fuel, electric energy and contract work. See Introduction, "Value Added by Manufacture."

<sup>3</sup>For 1929 and 1947-1954, value of shipments; for all other years, value of production. See Introduction "Value of Shipments."

<sup>4</sup>No comparable figures are available for prior years.

<sup>5</sup>Data for 1954 are not closely comparable to information shown for prior years. Some fabricating departments of textile mills which had been submitting separate reports discontinued this practice in 1954 and included the fabricating department in the report for the weaving mill. Such fabricating departments accounted for more than 15 percent of the 1954 employment shown for the Housefurnishings, n.e.c. industry.

<sup>6</sup>The figures for 1950-1953 represent estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period. Estimates with a standard error in excess of 15 percent generally have been omitted from this table.

<sup>7</sup>For "Textile bags" cost of contract work is not included in the cost of materials figures for 1933 and prior years.

<sup>8</sup>In 1935-1939 the coverage for the "Canvas products industry" was limited to establishments with products valued at \$20,000 or more. The figures are therefore not sufficiently comparable with those for later years to be shown in this table.

<sup>9</sup>Figures for 1933 for "Schiffli-machine embroideries" include data for "Embroideries, except Schiffli-machine." No separate figures are available.

<sup>10</sup>"Schiffli-machine embroideries" and "Embroideries, except Schiffli-machine" were formerly part of the discontinued industry "Millinery lace goods, n.e.c." Separate figures prior to 1927 are therefore not available.



## MANUFACTURES--INDUSTRY STATISTICS

Table 2.--GENERAL STATISTICS BY REGIONS AND STATES: 1954 AND 1947  
(For explanation of column captions see Introduction)

Industry, region, and State <sup>1</sup>	1954											1947	
	Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
	Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
Curtains and draperies (S.I.C. 2391), total.....	716	182	13,988	36,899	12,350	22,976	27,304	61,392	111,275	172,668	1,208	7,982	34,909
New England.....	77	39	3,782	9,052	3,426	6,193	6,917	15,120	29,792	44,912	276	2,276	9,098
Massachusetts.....	63	31	3,174	7,598	2,882	5,171	5,729	13,044	26,569	39,614	224	1,951	7,602
Rhode Island.....	4	2	130	291	105	185	210	665	1,196	1,861	17	200	(D)
Connecticut.....	10	6	478	1,163	438	837	977	1,410	2,026	3,437	35	125	(D)
Middle Atlantic.....	304	80	5,769	16,136	5,130	9,729	12,045	28,283	52,252	80,536	393	3,458	15,619
New York.....	242	62	4,063	11,651	3,616	6,879	8,613	20,534	37,198	57,732	225	2,532	11,613
New Jersey.....	21	5	639	1,660	568	1,027	1,320	2,945	5,706	8,652	98	434	2,346
Pennsylvania.....	41	13	1,066	2,824	945	1,823	2,111	4,803	9,348	14,151	68	492	1,660
East North Central.....	123	20	1,313	3,603	1,083	1,999	2,358	5,706	7,306	13,013	294	533	2,195
Ohio.....	18	5	271	778	210	393	438	1,405	1,837	3,242	18	81	(D)
Illinois.....	69	12	806	2,298	675	1,276	1,546	3,407	4,524	7,932	250	383	1,596
Michigan.....	18	3	151	298	125	190	214	521	581	1,103	14	54	(D)
West North Central.....	22	8	444	1,168	371	678	731	1,789	3,257	5,047	15	352	1,435
Missouri.....	14	7	359	1,003	303	555	613	1,562	2,830	4,393	11	277	1,177
South.....	53	11	823	1,802	742	1,402	1,380	2,817	5,876	8,694	94	412	1,863
Texas.....	14	5	348	808	318	614	576	1,299	3,821	5,121	53	166	728
West.....	137	24	1,855	5,137	1,597	2,970	3,870	7,674	12,790	20,465	133	951	4,699
California.....	107	18	1,497	4,315	1,289	2,423	3,236	6,008	10,365	16,373	93	820	4,194
Housefurnishings, n.e.c. (S.I.C. 2392), total.....	1,213	361	36,188	97,105	31,948	59,271	71,686	173,910	329,293	503,203	4,363	39,946	155,715
New England.....	76	25	2,272	6,739	1,896	3,498	4,791	12,196	27,181	39,377	244	4,186	22,932
Massachusetts.....	57	18	1,281	3,789	1,022	1,845	2,353	6,591	10,731	17,322	182	2,058	7,549
Middle Atlantic.....	618	171	12,785	36,626	11,086	20,559	25,491	66,009	105,992	172,001	896	9,877	42,564
New York.....	488	120	9,013	26,446	7,766	14,283	18,007	48,412	77,591	126,003	575	6,431	30,451
New Jersey.....	63	26	1,708	4,903	1,496	2,884	3,537	7,929	12,432	20,362	217	1,239	4,920
Pennsylvania.....	67	25	2,063	5,276	1,823	3,391	3,947	9,668	15,967	25,636	104	2,207	7,193
East North Central.....	161	44	3,274	10,246	2,688	5,089	6,571	19,497	28,137	47,635	858	3,093	14,132
Ohio.....	36	8	453	1,272	386	695	860	2,444	3,482	5,927	56	550	3,164
Indiana.....	13	1	104	286	85	166	190	496	406	902	16	110	315
Illinois.....	84	26	2,206	7,214	1,792	3,428	4,560	13,956	20,054	34,011	724	2,031	8,967
Michigan.....	18	4	201	579	174	334	450	1,098	1,748	2,846	21	141	629
Wisconsin.....	10	5	307	895	249	464	510	1,502	2,446	3,948	39	261	1,057
West North Central.....	35	15	823	2,083	682	1,268	1,353	3,366	4,496	7,863	142	454	1,741
Minnesota.....	9	6	224	512	194	362	334	896	1,082	1,978	27	95	(D)
Missouri.....	22	7	394	1,106	308	581	686	1,816	2,475	4,292	72	286	1,025
South Atlantic.....	147	62	12,341	30,821	11,351	20,936	25,092	51,786	116,769	168,556	1,849	18,194	60,364
Maryland.....	19	7	1,118	3,293	1,007	2,009	2,098	5,382	7,322	12,705	177	552	(D)
Virginia.....	13	6	1,276	4,161	1,115	2,079	2,967	6,806	13,500	20,307	416	1,947	(D)
North Carolina.....	12	8	1,734	3,901	1,616	2,858	3,443	5,713	32,834	38,548	61	7,434	18,275
South Carolina.....	7	4	2,720	8,823	2,414	4,776	7,412	16,280	27,608	43,888	626	2,666	(D)
Georgia.....	69	34	5,148	9,966	4,887	8,653	8,626	16,423	34,346	50,770	546	5,545	19,754
Florida.....	20	1	168	339	147	262	258	665	913	1,578	16	(D)	(D)
East South Central.....	40	19	2,969	6,102	2,777	5,237	5,155	12,848	34,481	47,330	165	2,731	8,862
Tennessee.....	16	7	1,126	2,238	1,066	2,100	1,935	5,777	8,298	14,076	11	1,039	2,888
Alabama.....	11	5	1,146	2,466	1,076	2,011	2,098	5,325	22,662	27,988	140	1,567	5,363
West South Central.....	38	5	389	923	334	595	667	1,534	2,412	3,947	23	554	1,536
Texas.....	26	4	254	536	209	374	350	764	1,355	2,120	(D)	130	423
Mountain.....	9	2	123	256	109	180	200	708	527	1,235	8	(D)	(D)
Pacific.....	89	18	1,209	3,307	1,022	1,905	2,362	5,961	9,296	15,258	173	(D)	(D)
California.....	77	18	1,151	3,160	969	1,806	2,228	5,653	8,906	14,559	159	647	2,926

See footnotes at end of table.

## MISCELLANEOUS FABRICATED TEXTILE PRODUCTS

23F-7

Table 2.—GENERAL STATISTICS BY REGIONS AND STATES: 1954 AND 1947—Continued

(For explanation of column captions see Introduction)

Industry, region, and State <sup>1</sup>	1954											1947	
	Establishments, number		All employees		Production workers			Value added by manufacture	Cost of materials, etc.	Value of shipments	Capital expenditures, new	All employees, number	Value added by manufacture
	Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)		(\$1,000)
Textile bags (S.I.C. 2393), total.....	268	121	12,109	35,120	9,897	18,748	24,329	51,641	169,337	220,978	3,941	13,850	66,320
New England.....	19	7	332	886	269	446	556	1,326	3,035	4,362	58	299	2,182
Massachusetts.....	10	3	123	320	102	177	212	493	672	1,165	(D)	161	734
Middle Atlantic.....	90	25	2,296	6,783	1,909	3,610	4,795	9,560	30,828	40,389	249	2,175	10,077
New York.....	71	17	1,683	5,025	1,410	2,693	3,613	6,887	20,418	27,306	198	1,578	6,217
New Jersey.....	7	2	207	583	176	311	403	756	4,528	5,285	22	177	1,755
Pennsylvania.....	12	6	405	1,174	322	606	778	1,916	5,881	7,798	28	420	2,105
East North Central.....	45	15	1,279	3,786	1,013	1,892	2,525	5,970	17,100	23,071	251	1,460	9,711
Ohio.....	13	4	209	617	167	322	404	787	3,461	4,249	(D)	463	2,101
Indiana.....	4	2	397	1,290	312	646	909	2,129	4,425	6,555	(D)	369	(D)
Illinois.....	15	5	303	897	250	438	604	1,490	6,440	7,931	44	408	5,517
Wisconsin.....	6	2	280	769	202	351	455	1,106	1,876	2,982	25	168	(D)
West North Central.....	23	19	2,240	7,016	1,800	3,488	4,869	10,127	38,822	48,949	1,420	2,967	10,693
Minnesota.....	7	5	581	1,833	454	842	1,269	3,259	10,519	13,779	140	717	2,556
Missouri.....	11	9	1,065	3,324	865	1,689	2,322	3,739	18,693	22,432	1,142	1,781	5,722
South Atlantic.....	35	19	1,442	3,669	1,221	2,289	2,546	5,951	16,639	22,591	228	1,941	9,645
Maryland.....	7	3	164	538	108	228	292	761	2,182	2,943	5	120	615
Virginia.....	9	6	492	1,314	404	764	885	2,052	7,346	9,398	46	560	3,561
North Carolina.....	9	5	345	938	310	566	735	1,626	2,736	4,363	33	587	2,066
South Carolina.....	3	2	128	176	126	217	166	278	521	800	...	(D)	(D)
Georgia.....	4	3	289	658	251	472	429	1,126	3,560	4,686	(D)	547	2,943
East South Central.....	13	7	700	1,940	596	1,229	1,437	3,453	11,109	14,562	244	1,003	4,541
Tennessee.....	5	3	416	1,358	343	764	992	2,428	8,472	10,901	(D)	695	3,160
West South Central.....	19	14	1,944	4,547	1,617	2,933	3,149	5,442	25,680	31,123	1,027	2,680	12,210
Texas.....	10	7	1,130	2,592	961	1,813	1,815	3,062	15,299	18,362	(D)	1,582	8,619
Mountain.....	4	2	122	305	98	173	216	627	2,316	2,944	32	(D)	(D)
Pacific.....	20	13	1,751	6,185	1,370	2,684	4,233	9,181	23,804	32,986	428	(D)	(D)
California.....	14	9	1,073	3,804	833	1,609	2,560	5,913	13,517	19,431	261	713	4,496
Canvas products (S.I.C. 2394), total.....	1,119	150	13,540	40,180	10,724	20,498	25,917	61,442	68,170	129,611	1,285	10,603	41,424
New England.....	103	7	719	1,903	577	1,116	1,377	3,023	2,963	5,987	63	696	2,150
Massachusetts.....	53	6	464	1,226	373	697	887	1,841	2,088	3,930	37	398	1,138
Connecticut.....	30	1	171	481	138	292	349	804	599	1,404	(D)	116	389
Middle Atlantic.....	287	34	2,598	7,706	2,123	4,071	5,330	12,590	14,307	26,897	280	2,207	8,723
New York.....	160	21	1,513	4,413	1,232	2,262	3,018	7,084	8,034	15,118	136	1,269	5,154
New Jersey.....	54	1	252	759	206	396	545	1,361	1,242	2,604	53	349	1,288
Pennsylvania.....	73	12	832	2,534	685	1,412	1,766	4,144	5,030	9,175	90	589	2,281
East North Central.....	252	41	4,072	13,192	2,989	5,951	7,834	19,087	21,047	40,134	347	3,113	11,335
Ohio.....	64	13	1,426	4,772	1,021	1,964	2,697	6,679	7,440	14,119	70	1,053	3,326
Indiana.....	32	9	916	2,790	760	1,502	1,901	3,834	4,929	8,764	75	445	(D)
Illinois.....	77	13	1,142	3,792	795	1,679	2,171	5,641	5,813	11,455	86	960	3,931
Michigan.....	50	4	367	1,171	257	489	635	1,929	1,995	3,925	71	321	1,163
Wisconsin.....	29	2	219	666	153	315	427	1,002	868	1,870	42	334	(D)
West North Central.....	112	24	1,526	4,552	1,183	2,311	2,864	6,953	6,903	13,856	119	1,127	4,488
Minnesota.....	14	2	163	583	117	218	308	867	698	1,565	14	138	510
Iowa.....	19	4	240	807	157	340	449	1,160	1,191	2,352	48	190	573
Missouri.....	43	14	846	2,420	693	1,334	1,634	3,705	3,856	7,561	34	395	1,839
South Atlantic.....	121	17	1,810	4,936	1,525	2,806	3,453	7,227	8,925	16,152	143	1,209	(D)
Maryland.....	21	3	385	1,310	296	616	884	1,740	2,594	4,335	40	422	2,357
Virginia.....	26	7	552	1,497	487	984	1,254	2,449	2,933	5,383	17	152	416
North Carolina.....	15	3	201	463	177	268	333	735	786	1,522	18	149	424
Georgia.....	9	2	206	588	163	310	314	775	1,111	1,887	16	99	(D)
Florida.....	36	...	156	419	124	230	244	681	629	1,310	34	166	597
East South Central.....	38	5	799	1,572	704	1,270	1,228	2,549	2,313	4,863	77	(D)	(D)
Tennessee.....	14	2	394	848	351	611	643	1,349	1,054	2,404	(D)	223	1,592
West South Central.....	67	7	805	1,952	678	1,269	1,390	3,392	4,141	7,534	93	(D)	(D)
Arkansas.....	5	1	44	99	35	65	66	203	175	378	(D)	(D)	(D)
Louisiana.....	4	3	117	763	277	506	573	1,043	1,221	2,274	21	164	(D)
Oklahoma.....	14	1	110	247	88	147	168	520	528	1,048	(D)	120	417
Texas.....	44	2	334	843	277	549	582	1,625	2,207	3,833	61	327	1,254
Mountain.....	32	4	253	793	192	384	495	938	1,509	2,447	35	229	756
Pacific.....	107	11	955	3,572	751	1,316	1,941	5,681	6,058	11,739	125	1,040	4,599
Washington.....	18	1	120	380	95	174	254	593	721	1,315	16	152	563
California.....	79	10	790	3,056	620	1,077	1,599	4,845	5,198	10,043	103	813	3,706

See footnotes at end of table.

## MANUFACTURES—INDUSTRY STATISTICS

Table 2.—GENERAL STATISTICS BY REGIONS AND STATES: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Industry, region, and State <sup>1</sup>	1954											1947	
	Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
	Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
Tucking, pleating, and stitching (S.I.C. 2395), total.....	491	93	6,453	17,602	6,021	10,778	14,828	27,904	6,674	34,578	644	5,929	21,339
New England.....	21	7	344	850	321	565	745	1,275	310	1,586	33	(D)	(D)
Massachusetts.....	16	5	255	649	239	427	574	989	197	1,187	21	203	591
Middle Atlantic.....	393	78	5,203	14,644	4,845	8,673	12,255	23,511	5,652	29,163	501	4,494	(D)
New York.....	311	64	4,495	13,049	4,169	7,551	10,823	20,771	5,071	25,842	433	3,463	14,125
New Jersey.....	57	11	507	1,179	489	791	1,053	2,012	449	2,462	44	604	1,722
Pennsylvania.....	25	3	200	415	187	330	378	727	131	858	24	427	(D)
East North Central.....	24	4	255	596	231	373	493	902	199	1,102	(D)	583	1,851
Illinois.....	19	3	208	477	186	297	379	709	175	885	7	456	1,473
West North Central.....	6	1	89	210	84	160	144	314	83	398	(D)	53	163
South and West.....	47	3	560	1,301	537	1,005	1,189	1,901	428	2,328	98	570	1,754
California.....	34	3	500	1,182	483	912	1,083	1,708	388	2,095	89	254	962
Trimmings and art goods (S.I.C. 2396), total.....	836	198	17,754	55,623	15,045	28,105	40,558	87,687	155,228	242,915	7,691	14,521	62,587
New England.....	34	11	1,181	3,438	966	1,878	2,232	6,008	9,875	15,884	173	977	4,544
Massachusetts.....	24	10	961	2,857	787	1,583	1,865	5,430	8,351	13,781	(D)	822	3,839
Middle Atlantic.....	646	141	10,043	27,267	8,646	15,363	19,320	45,477	51,879	97,356	677	9,576	40,481
New York.....	586	125	8,808	24,238	7,528	13,262	16,964	40,428	45,934	86,362	460	8,951	37,423
New Jersey.....	35	5	400	1,042	365	681	837	1,738	990	2,729	28	171	729
Pennsylvania.....	25	11	834	1,986	752	1,419	1,518	3,310	4,954	8,264	188	454	2,329
East North Central.....	60	23	4,380	18,183	3,620	7,397	13,978	26,835	72,662	99,497	6,356	2,373	10,899
Ohio.....	11	6	861	2,820	758	1,644	2,514	4,984	8,139	13,124	(D)	(D)	(D)
Michigan.....	13	8	2,827	13,406	2,276	4,653	10,085	18,571	60,447	79,018	(D)	1,362	6,410
West North Central.....	19	9	678	2,217	597	1,086	1,701	3,329	8,133	11,463	41	459	2,040
South.....	26	4	254	625	221	436	501	860	2,102	2,962	54	138	420
Texas.....	7	2	108	267	93	183	215	388	658	1,046	38	(D)	(D)
West.....	51	10	1,215	3,892	994	1,943	2,824	5,176	10,575	15,751	388	998	4,203
California.....	45	10	1,200	3,868	981	1,923	2,802	5,135	10,530	15,665	388	(D)	(D)
Schiffli-machine embroidery (S.I.C. 2397), total.....	601	57	5,715	19,739	5,061	9,969	14,772	34,396	31,435	65,834	1,016	5,678	31,733
New England.....	4	2	94	298	86	184	217	353	125	478	4	(D)	(D)
Middle Atlantic.....	573	49	5,292	18,509	4,686	9,227	13,872	32,576	30,779	63,358	1,002	(D)	(D)
New York.....	67	9	702	2,103	625	1,157	1,506	3,878	4,058	7,937	16	1,306	6,273
New Jersey.....	493	33	4,260	15,667	3,759	7,497	11,752	27,527	26,265	53,794	951	3,623	22,590
Pennsylvania.....	13	7	329	737	302	572	613	1,171	455	1,626	33	(D)	(D)
North Central.....	16	5	253	753	221	436	551	1,118	348	1,467	4	258	950
South and West.....	8	1	76	179	67	120	130	348	182	530	4	255	960
Embroideries, except Schiffli (S.I.C. 2398), total.....	926	141	10,803	26,880	10,041	16,409	22,178	41,280	14,875	56,155	716	9,836	34,521
New England.....	17	2	133	279	126	184	243	407	124	532	6	261	761
Middle Atlantic.....	753	120	8,989	22,725	8,341	13,649	18,741	34,689	12,403	47,092	628	8,521	30,355
New York.....	520	107	7,364	18,688	6,804	10,993	15,384	27,653	9,404	37,057	359	7,083	25,752
New Jersey.....	212	9	1,286	3,333	1,210	2,099	2,701	5,968	2,778	8,747	262	931	3,435
Pennsylvania.....	21	4	339	704	326	557	655	1,067	220	1,288	5	507	1,168
North Central.....	69	7	607	1,218	565	913	1,044	1,845	455	2,300	18	808	2,602
Illinois.....	20	3	246	555	224	376	421	811	227	1,039	10	372	1,422
Missouri.....	12	3	188	365	181	290	345	509	105	614	(D)	(D)	(D)
South.....	26	5	451	1,257	423	753	941	1,935	827	2,763	55	246	803
Texas.....	6	1	102	237	93	175	181	363	77	440	5		
Mountain.....	5	...	11	13	10	12	12	29	11	41	...		
Pacific.....	56	7	611	1,386	574	896	1,190	2,373	1,052	3,426	8		

See footnotes at end of table.



## MISCELLANEOUS FABRICATED TEXTILE PRODUCTS

23F-9

Table 2.—GENERAL STATISTICS BY REGIONS AND STATES: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Industry, region, and State <sup>1</sup>	1954											1947	
	Establishments, number		All employees		Production workers			Value added by manufacture	Cost of materials, etc.	Value of shipments	Capital expenditures, new	All employees, number	Value added by manufacture
	Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
Textile products, n.e.c. (S.I.C. 2399), total.....	1,104	206	18,006	52,167	15,280	28,733	37,314	87,272	113,923	201,198	2,719	18,318	79,879
New England.....	99	19	2,300	6,109	2,033	3,741	4,571	10,079	10,047	20,126	715	1,004	4,457
New Hampshire.....	8	1	110	319	98	181	261	513	526	1,039	8	(D)	(D)
Massachusetts.....	57	15	1,312	3,274	1,175	2,017	2,521	4,906	5,611	10,517	599	549	2,169
Rhode Island.....	11	2	486	1,301	432	904	945	3,155	3,354	6,510	22	72	(D)
Connecticut.....	16	1	357	1,125	303	591	785	1,386	491	1,877	84	231	1,375
Middle Atlantic.....	448	92	6,839	20,612	5,874	11,189	15,423	34,414	33,271	67,688	789	7,800	35,437
New York.....	321	66	4,703	14,292	4,074	7,764	10,728	23,749	21,508	45,258	587	5,630	26,136
New Jersey.....	61	9	896	2,746	744	1,377	2,034	4,419	5,647	10,067	122	728	2,889
Pennsylvania.....	66	17	1,239	3,573	1,055	2,047	2,661	6,244	6,115	12,363	79	1,442	6,412
East North Central.....	190	38	3,674	11,443	3,052	5,602	7,587	20,186	37,165	57,352	450	4,261	18,615
Ohio.....	57	9	1,139	3,534	952	1,646	2,353	5,803	17,078	22,882	158	1,295	5,683
Illinois.....	65	18	1,409	4,329	1,255	2,164	2,809	6,904	8,991	15,895	108	1,567	6,087
Michigan.....	31	6	695	2,206	594	1,108	1,518	4,565	6,858	11,423	52	679	2,980
Wisconsin.....	24	3	338	1,129	272	536	718	2,563	3,776	6,339	(D)	447	2,755
West North Central.....	49	15	1,275	3,675	1,028	1,998	2,453	6,048	6,229	12,277	52	1,415	4,946
Minnesota.....	17	5	298	842	244	471	608	1,770	1,771	3,542	16	252	690
Iowa.....	7	4	497	1,428	414	807	983	2,390	2,102	4,492	21	548	(D)
Missouri.....	17	4	230	690	172	323	368	1,021	486	1,508	10	428	1,463
South Atlantic.....	78	12	1,249	3,134	1,072	2,039	2,302	5,113	12,389	17,503	132	1,699	8,260
Maryland.....	17	3	216	563	196	363	446	859	657	1,517	31	95	(D)
South Carolina.....	11	3	355	884	316	616	721	1,822	7,250	9,073	(D)	292	(D)
Georgia.....	14	5	284	727	245	487	501	1,445	2,642	4,088	33	378	1,497
East South Central.....	33	6	583	1,610	446	850	908	2,027	4,023	6,050	19	621	2,246
Tennessee.....	10	3	373	1,090	258	496	554	1,358	2,774	4,132	10	226	(D)
West South Central.....	43	6	442	907	393	678	663	1,471	1,985	3,456	13	442	1,745
Texas.....	27	5	365	775	322	552	558	1,308	1,678	2,986	9	390	1,521
Mountain.....	18	1	144	305	135	252	269	691	645	1,337	10	107	289
Pacific.....	146	17	1,497	4,369	1,241	2,378	3,134	7,239	8,166	15,406	538	969	3,884
Washington.....	11	1	249	753	209	407	595	1,158	1,194	2,352	42	(D)	(D)
Oregon.....	6	2	119	344	89	177	221	657	795	1,452	7	(D)	(D)
California.....	129	14	1,128	3,271	943	1,793	2,316	5,424	6,177	11,601	488	837	3,474

Note: Detailed figures may not add to the totals because of independent rounding.

<sup>1</sup> Withheld to avoid disclosing figures for individual companies.<sup>2</sup> General statistics for some producing States are not shown separately in the table (see INTRODUCTION "Confidentiality of Data for Individual Companies"). Such States are shown below with the number of establishments in each State for 1954 and, in parentheses, the number of employees or the employment-size range for that State for 1954:

S.I.C. 2391, Curtains and Draperies: East North Central—Indiana, 7 (20-99); Wisconsin, 11 (20-99); West North Central—Minnesota, 4 (20-99); Iowa, 1 (1-19); Nebraska, 1 (1-19); Kansas, 2 (1-19); South—Delaware, 3 (1-19); Maryland, 2 (1-19); District of Columbia, 4 (1-19); Virginia, 1 (1-19); North Carolina, 5 (20-99); South Carolina, 2 (20-99); Georgia, 5 (100-249); Florida, 12 (20-99); East South Central—Kentucky, 1 (1-19); Tennessee, 1 (20-99); Alabama, 2 (1-19); Mississippi, 1 (1-19); West—Colorado, 3 (20-99); Arizona, 3 (1-19); Utah, 3 (1-19); Washington, 16 (100-249); Oregon, 5 (100-249).

S.I.C. 2392, House Furnishings, n.e.c.: New England—Maine, 1 (500-999); New Hampshire, 2 (20-99); Rhode Island, 5 (20-99); Connecticut, 11 (250-499); West North Central—Iowa, 1 (100-249); Kansas, 3 (20-99); South Atlantic—Delaware, 2 (100-249); District of Columbia, 5 (20-99); East South Central—Kentucky, 10 (500-999); Mississippi, 3 (20-99); West South Central—Arkansas, 2 (1-19); Louisiana, 5 (20-99); Oklahoma, 5 (20-99); Mountain—Colorado, 7 (100-249); Arizona, 1 (1-19); Utah, 1 (1-19); Pacific—Washington, 6 (20-99); Oregon, 6 (20-99).

S.I.C. 2393, Textile Bags: New England—Maine, 3 (20-99); Vermont, 2 (1-19); Rhode Island, 2 (20-99); Connecticut, 2 (20-99); East North Central—Michigan, 7 (20-99); West North Central—Iowa, 1 (100-249); Nebraska, 1 (250-499); Kansas, 3 (100-249); South Atlantic—Florida, 3 (20-99); East South Central—Kentucky, 2 (20-99); Alabama, 5 (100-249); Mississippi, 1 (20-99); West South Central—Arkansas, 1 (1-19); Louisiana, 7 (500-999); Oklahoma, 1 (1-19); Mountain—Idaho, 1 (1-19); Colorado, 2 (20-99); Utah, 1 (20-99); Pacific—Washington, 1 (100-249); Oregon, 5 (250-499).

S.I.C. 2394, Canvas Products: New England—Maine, 9 (20-99); New Hampshire, 1 (1-19); Vermont, 2 (1-19); Rhode Island, 8 (20-99); West North Central—South Dakota, 4 (1-19); Nebraska, 11 (20-99); Kansas, 21 (100-249); South Atlantic—Delaware, 3 (1-19); District of Columbia, 3 (20-99); West Virginia, 5 (100-249); South Carolina, 3 (1-19); East South Central—Kentucky, 9 (20-99); Alabama, 11 (20-99); Mississippi, 4 (100-249); Mountain—Montana, 2 (1-19); Idaho, 9 (20-99); Wyoming, 2 (1-19); Colorado, 10 (100-249); New Mexico, 1 (1-19); Arizona, 3 (1-19); Utah, 5 (20-99); Pacific—Oregon, 10 (20-99).

S.I.C. 2395, Tucking, Pleating, and Stitching: New England—New Hampshire, 3 (1-19); Vermont, 1 (20-99); Connecticut, 1 (20-99); East North Central—Ohio, 5 (20-99); West North Central—Minnesota, 3 (1-19); Missouri, 2 (20-99); Kansas, 1 (1-19); South and West—Maryland, 1 (1-19); Georgia, 2 (1-19); Florida, 3 (1-19); Tennessee, 1 (1-19); Texas, 4 (20-99); Colorado, 1 (1-19); Washington, 1 (1-19).

S.I.C. 2396, Trimmings and Art Goods: New England—Maine, 1 (1-19); New Hampshire, 1 (1-19); Rhode Island, 3 (1-19); Connecticut, 5 (100-249); East North Central—Indiana, 3 (100-249); Illinois, 32 (500-999); Wisconsin, 1 (1-19); West North Central—Minnesota, 2 (1-19); Missouri, 17 (500-999); South—Delaware, 1 (1-19); Maryland, 1 (1-19); Virginia, 2 (1-19); North Carolina, 1 (1-19); South Carolina, 3 (20-99); Georgia, 2 (1-19); Florida, 4 (20-99); Tennessee, 4 (20-99); Arkansas, 2 (1-19); West—Idaho, 1 (1-19); Utah, 1 (1-19); Washington, 4 (1-19).

S.I.C. 2397, Schiffli-machine Embroideries: New England—Massachusetts, 3 (20-99); Connecticut, 1 (1-19); North Central—Ohio, 3 (20-99); Illinois, 9 (100-249); Michigan, 1 (1-19); Wisconsin, 1 (1-19); Missouri, 2 (20-99); South and West—Maryland, 1 (1-19); Florida, 1 (20-99); California, 6 (20-99).

S.I.C. 2398, Embroideries, except Schiffli: New England—Massachusetts, 16 (100-249); Connecticut, 1 (1-19); North Central—Ohio, 12 (100-249); Indiana, 8 (1-19); Michigan, 12 (20-99); Wisconsin, 1 (1-19); Minnesota, 2 (1-19); Iowa, 2 (1-19); South—Maryland, 6 (100-249); District of Columbia, 1 (1-19); Virginia, 1 (1-19); West Virginia, 1 (1-19); Georgia, 1 (1-19); Florida, 5 (100-249); Kentucky, 1 (1-19); Mississippi, 1 (1-19); Louisiana, 2 (1-19); Oklahoma, 1 (1-19); Mountain—Colorado, 2 (1-19); New Mexico, 1 (1-19); Arizona, 2 (1-19); Pacific—Washington, 1 (1-19); Oregon, 1 (1-19); California, 54 (500-999).

S.I.C. 2399, Textile Products, n.e.c.: New England—Maine, 6 (20-99); Vermont, 1 (1-19); East North Central—Indiana, 13 (20-99); West North Central—Nebraska, 3 (20-99); Kansas, 5 (100-249); South Atlantic—Delaware, 2 (1-19); District of Columbia, 2 (1-19); Virginia, 8 (20-99); West Virginia, 2 (1-19); North Carolina, 7 (250-499); Florida, 15 (20-99); East South Central—Kentucky, 6 (20-99); Alabama, 12 (20-99); Mississippi, 5 (20-99); West South Central—Arkansas, 3 (1-19); Louisiana, 11 (20-99); Oklahoma, 2 (20-99); Mountain—Colorado, 7 (20-99); New Mexico, 5 (20-99); Arizona, 3 (1-19); Utah, 2 (1-19); Nevada, 1 (1-19).

## MANUFACTURES--INDUSTRY STATISTICS

Table 3.--DETAILED STATISTICS FOR THE UNITED STATES: 1954

Item	Curtains and draperies (S.I.C. 2391) all estab- lishments	House fur- nishings, n.e.c. (S.I.C. 2392) all estab- lishments	Textile bags (S.I.C. 2393)		Canvas products (S.I.C. 2394)	
			All estab- lishments	Establish- ments with 90% or more primary prod- uct special- ization	All estab- lishments	Establish- ments with 90% or more primary prod- uct special- ization
Primary product specialization ratio <sup>1</sup> .....	94	91	84	xxx	89	xxx
Coverage ratio <sup>2</sup> .....	89	59	85	xxx	86	xxx
Number of establishments, total.....	716	1,213	268	190	1,119	902
With 1-19 employees.....	534	852	147	122	969	804
With 20-99 employees.....	157	286	82	53	136	90
With 100 employees and over.....	25	75	39	15	14	8
All employees:						
Number (average for year).....	13,988	36,188	12,109	5,610	13,540	9,570
Payroll.....\$1,000...	36,899	97,105	35,120	15,538	40,180	27,771
Production workers:						
Number (average for year).....	12,350	31,948	9,897	4,689	10,724	7,637
Man-hours.....1,000...	22,976	59,271	18,748	8,807	20,498	14,443
Wages.....\$1,000...	27,304	71,686	24,329	10,977	25,917	18,349
Value added by manufacture.....do...	61,392	173,910	51,641	24,292	61,442	42,816
Cost of materials, etc.....do...	111,275	329,293	169,337	82,771	68,170	47,381
Value of shipments.....do...	172,668	503,203	220,978	107,063	129,611	90,197
Value added by resales.....do...	1,428	3,909	2,728	1,650	3,930	1,857
Cost of products bought and resold.....do...	6,084	19,145	30,553	12,177	14,142	7,868
Sales of products bought and resold.....do...	7,512	23,054	33,282	13,828	18,072	9,725
Total inventories, beginning of year.....do...	22,451	81,920	33,093	14,956	24,039	16,234
Total inventories, end of year.....do...	23,726	83,983	35,177	16,108	24,030	16,500
Capital expenditures, new.....do...	1,208	4,363	3,941	733	1,285	937
Number of employees for selected months:						
March.....	13,821	34,903	12,297	5,877	12,308	8,528
May.....	13,438	34,619	11,796	5,517	14,421	10,408
August.....	13,871	36,365	12,094	5,420	13,968	9,943
November.....	14,822	38,865	12,250	5,627	13,464	9,402
Cost of materials, fuel, electricity and contract work, total.....\$1,000...	111,275	329,293	169,337	82,771	68,170	47,381
Materials, parts, containers, and supplies consumed.....do...	106,362	315,926	168,218	82,286	66,339	45,975
Fuels consumed, total.....do...	64	331	53	37	132	99
Bituminous coal and anthracite:						
Quantity.....1,000 short tons...	4	19	3	(NA)	8	(NA)
Value.....\$1,000...	38	188	30	(NA)	80	(NA)
Fuel oil:						
Quantity.....1,000 barrels...	5	30	3	(NA)	8	(NA)
Value.....\$1,000...	21	122	11	(NA)	30	(NA)
Gas:						
Quantity.....Million cubic feet...	25	88	53	(NA)	96	(NA)
Value.....\$1,000...	4	21	12	(NA)	22	(NA)
Other fuels:						
Value.....do...	1	...	...	...	...	...
Electric energy:						
Purchased:						
Quantity.....1,000 kwh...	11	71	18	8	12	5
Cost.....\$1,000...	271	1,320	419	189	314	216
Cost of contract work.....\$1,000...	4,578	11,716	647	259	1,385	1,091
Manufacturers' inventories:						
Beginning of year, total.....do...	22,451	81,920	33,093	14,956	24,039	16,234
Finished products.....do...	8,298	40,654	11,209	4,872	7,343	4,640
Work-in-process.....do...	3,493	11,567	3,409	1,840	2,192	1,617
Materials, supplies, fuel, etc.....do...	10,659	29,699	18,474	8,243	14,503	9,976
End of year, total.....do...	23,726	83,983	35,177	16,108	24,030	16,500
Finished products.....do...	9,297	41,221	11,651	5,032	7,032	4,860
Work-in-process.....do...	3,490	11,717	3,712	2,135	2,295	1,665
Materials, supplies, fuel, etc.....do...	10,938	31,044	19,814	8,949	14,701	9,975
Expenditures for plant and equipment, total.....do...	2,224	4,817	4,163	770	1,380	1,020
Capital expenditures, new.....do...	1,208	4,363	3,941	733	1,285	937
New structures and additions to plant.....do...	( <sup>3</sup> )	1,856	1,543	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
New machinery and equipment.....do...	735	2,507	2,398	628	961	699
Expenditures for used plant and equipment.....do...	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )

See footnotes at end of table.

## MISCELLANEOUS FABRICATED TEXTILE PRODUCTS

23F-11

Table 3.—DETAILED STATISTICS FOR THE UNITED STATES: 1954—Continued

Item	Tucking, pleating and hem-stitching (S.I.C. 2395) all estab- lishments	Trimnings and art goods, (S.I.C. 2396) all estab- lishments	Schiffli- machine em- broideries (S.I.C. 2397) all estab- lishments	Embroideries, except Schiffli (S.I.C. 2398) all estab- lishments	Fabricated textile prod- ucts, n.e.c. (S.I.C. 2399)	
					All estab- lishments	Establish- ments with 90% or more primary prod- ucts special- ization
Primary product specialization ratio: <sup>1</sup>	( <sup>4</sup> )	97	98	98	87	xxx
Coverage ratio: <sup>2</sup>	(NA)	83	99	96	77	xxx
Number of establishments, total	491	836	601	926	1,104	795
With 1-19 employees	398	638	544	785	898	684
With 20-99 employees	87	175	55	137	173	94
With 100 employees and over	6	23	2	4	33	17
All employees:						
Number (average for year)	6,453	17,754	5,715	10,803	18,006	9,879
Payroll.....\$1,000..	17,602	55,623	19,739	26,880	52,167	27,242
Production workers:						
Number (average for year)	6,021	15,045	5,061	10,041	15,280	8,323
Man-hours.....1,000..	10,778	28,105	9,969	16,409	28,733	15,457
Wages.....\$1,000..	14,828	40,558	14,772	22,178	37,314	19,254
Value added by manufacture.....do..	27,904	87,687	34,396	41,280	87,272	47,615
Cost of materials, etc.....do..	6,674	155,228	31,435	14,875	113,923	73,600
Value of shipments.....do..	34,578	242,915	65,834	56,155	201,198	121,219
Value added by resales.....do..	30	1,628	572	487	1,923	1,105
Cost of products bought and resold.....do..	148	6,588	1,451	668	6,475	3,818
Sales of products bought and resold.....do..	178	8,216	2,024	1,155	8,398	4,923
Total inventories, beginning of year.....do..	560	37,861	5,112	2,986	29,652	18,571
Total inventories, end of year.....do..	558	31,814	4,699	2,974	28,621	18,077
Capital expenditures, new.....do..	644	7,691	1,016	716	2,719	1,607
Number of employees for selected months:						
March.....	6,673	18,188	5,912	10,288	17,360	9,790
May.....	6,074	16,638	5,340	8,989	17,650	9,769
August.....	6,325	16,515	5,446	11,090	18,047	9,857
November.....	6,738	19,676	6,164	12,843	18,965	10,099
Cost of materials, fuel, electricity and contract work, total.....\$1,000..	6,674	155,228	31,435	14,875	113,923	73,600
Materials, parts, containers, and supplies consumed.....do..	6,183	152,021	18,694	12,724	111,962	72,051
Fuel consumed, total.....do..	2	40	103	12	83	62
Bituminous coal and anthracite:						
Quantity.....1,000 short tons..	( <sup>5</sup> )	2	5	1	3	(NA)
Value.....\$1,000..	2	23	49	6	32	(NA)
Fuel oil:						
Quantity.....1,000 barrels..	( <sup>6</sup> )	4	14	1	12	(NA)
Value.....\$1,000..	( <sup>7</sup> )	13	54	5	46	(NA)
Gas:						
Quantity.....Million cubic feet..	...	6	...	4	16	(NA)
Value.....\$1,000..	...	( <sup>7</sup> )	...	1	5	(NA)
Other fuels:						
Value.....do..	...	4	...	...	...	...
Electric energy:						
Purchased:						
Quantity.....1,000 kwh..	2	13	3	3	15	7
Cost.....\$1,000..	54	434	85	116	399	205
Sold:						
Quantity.....1,000 kwh..	...	...	...	...	18	18
Value.....\$1,000..	...	...	...	...	5	1
Cost of contract work.....do..	435	2,733	12,553	2,023	2,049	1,282
Manufacturers' inventories:						
Beginning of year, total.....do..	560	37,861	5,112	2,986	29,652	18,571
Finished products.....do..	( <sup>3</sup> )	7,081	1,512	1,158	9,937	6,645
Work-in-process.....do..	( <sup>3</sup> )	6,319	711	( <sup>3</sup> )	3,587	2,284
Materials, supplies, fuel, etc.....do..	( <sup>3</sup> )	24,459	2,887	1,493	16,127	9,641
End of year, total.....do..	558	31,814	4,699	2,974	28,621	18,077
Finished products.....do..	( <sup>3</sup> )	5,425	1,441	1,158	10,004	6,310
Work-in-process.....do..	( <sup>3</sup> )	9,916	684	( <sup>3</sup> )	3,468	2,293
Materials, supplies, fuel, etc.....do..	( <sup>3</sup> )	16,472	2,572	1,482	15,148	9,472
Expenditures for plant and equipment, total.....do..	666	16,330	1,425	754	2,937	1,703
Capital expenditures, new.....do..	644	7,691	1,016	716	2,719	1,607
New structures and additions to plant.....do..	( <sup>3</sup> )	4,959	( <sup>3</sup> )	( <sup>3</sup> )	726	589
New machinery and equipment.....do..	524	3,096	874	( <sup>3</sup> )	1,993	1,018
Expenditures for used plant and equipment.....do..	( <sup>3</sup> )	8,641	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>3</sup> )

Note: Detailed figures may not add to the totals because of independent rounding.

xxx Not applicable.

NA Not available.

<sup>1</sup>The specialization ratio compares the given industry's shipments of its primary products to its total shipments of all products. (The primary products are listed in Tables 5B and 6A; the first 4-digits of the product code represent the industry code to which the product is primary.) Columns containing totals for establishments with 90% or more primary product specialization are shown only for those industries having a primary product specialization of less than 90%.

<sup>2</sup>The coverage ratio measures the extent to which the total shipments of products primary to the given industry are shipped by establishments classified in that industry.

<sup>3</sup>Less than \$500 thousand.

<sup>4</sup>Over 90%. See footnote on Table 5A.

<sup>5</sup>Less than 500 tons.

<sup>6</sup>Less than 500 barrels.

<sup>7</sup>Less than \$500.



## MANUFACTURES--INDUSTRY STATISTICS

Table 4.--SELECTED STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR THE UNITED STATES: 1954

(Value figures in thousands of dollars. For explanation of line captions see Introduction. Data which cannot be shown without disclosing information for individual companies have been combined with figures for other size classes. A (D) appears in the column where the figure has been omitted and the combined figure is underlined and shown in the size-class to the left)

Ind. code	Industry and item	Total, all establishments	Establishments with an average of--									
			1-4 em- ployees	5-9 em- ployees	10-19 em- ployees	20-49 em- ployees	50-99 em- ployees	100-249 employees	250-499 employees	500-999 employees	1,000-2,499 employees	2,500 employees and over
2391	Curtains and draperies:											
	Number of establishments..	716	315	127	92	111	46	21	3	1	...	...
	Number of employees.....	13,988	744	882	1,313	3,521	3,289	<u>4,235</u>	(D)	(D)	...	...
	Value added by manufacture	61,392	3,488	4,348	5,886	16,402	14,177	<u>17,088</u>	(D)	(D)	...	...
2392	Housefurnishings, n.e.c.:											
	Number of establishments..	1,213	487	190	175	204	82	55	14	5	1	...
	Number of employees.....	36,188	1,188	1,348	2,498	6,396	5,738	8,272	5,403	<u>5,341</u>	(D)	...
	Value added by manufacture	173,910	6,401	6,914	13,422	28,539	25,002	39,019	24,801	<u>29,811</u>	(D)	...
2393	Textile bags:											
	Number of establishments..	268	66	32	49	44	38	34	4	1	...	...
	Number of employees.....	12,109	169	237	687	1,345	2,616	<u>7,053</u>	(D)	(D)	...	...
	Value added by manufacture	51,641	911	1,165	2,660	6,543	9,469	<u>20,892</u>	(D)	(D)	...	...
2394	Canvas products:											
	Number of establishments..	1,119	592	226	151	105	31	11	3	...	...	...
	Number of employees.....	13,540	1,535	1,568	2,081	3,250	2,216	1,963	925	...	...	...
	Value added by manufacture	61,442	7,926	7,802	9,395	14,084	12,048	6,985	3,199	...	...	...
2395	Tucking, pleating & stitching:											
	Number of establishments..	491	202	107	89	78	9	6	...	...	...	...
	Number of employees.....	6,453	522	796	1,262	2,422	565	884	...	...	...	...
	Value added by manufacture	27,904	2,515	3,661	5,616	10,562	2,418	3,131	...	...	...	...
2396	Trimmings and art goods:											
	Number of establishments..	836	277	174	187	143	32	15	5	2	1	...
	Number of employees.....	17,754	708	1,251	2,701	4,389	2,089	1,957	1,678	<u>2,979</u>	(D)	...
	Value added by manufacture	87,687	3,649	6,140	12,568	18,687	9,228	8,812	7,635	<u>20,964</u>	(D)	...
2397	Schiffli-machine embroideries:											
	Number of establishments..	601	249	180	115	50	5	2	...	...	...	...
	Number of employees.....	5,715	705	1,301	1,539	1,565	<u>604</u>	(D)	...	...	...	...
	Value added by manufacture	34,396	5,014	8,705	9,500	8,537	<u>2,638</u>	(D)	...	...	...	...
2398	Embroideries, except schiffli:											
	Number of establishments..	926	440	183	162	102	35	4	...	...	...	...
	Number of employees.....	10,803	1,075	1,324	2,320	3,024	2,406	652	...	...	...	...
	Value added by manufacture	41,280	5,448	5,272	8,422	10,623	8,725	2,787	...	...	...	...
2399	Textile products, n.e.c.:											
	Number of establishments..	1,104	524	205	169	127	46	28	5	...	...	...
	Number of employees.....	18,006	1,208	1,489	2,437	3,977	3,026	4,483	1,382	...	...	...
	Value added by manufacture	87,272	6,161	7,497	11,481	18,754	14,673	22,284	6,419	...	...	...

Note: Detailed figures may not add to the totals because of independent rounding.

## MISCELLANEOUS FABRICATED TEXTILE PRODUCTS

23F-13

Table 5A.—INDUSTRY-PRODUCT ANALYSIS—SUMMARY OF INDUSTRY AND PRIMARY PRODUCT SHIPMENTS, SPECIALIZATION RATIOS AND COVERAGE RATIOS  
FOR THE UNITED STATES: 1954 AND 1947

Industry code	Industry and census year	Value of shipments					Value of primary products shipped			
		Total	Primary products	Secondary products	Miscellaneous receipts	Primary product specialization ratio <sup>1</sup>	Total (made in all industries)	Made in this industry	Made in other industries	Coverage ratio <sup>2</sup>
		(\$1,000) (A)	(\$1,000) (B)	(\$1,000) (C)	(\$1,000) (D)	Col. B Col. B+C (Percent) (E)	(\$1,000) (F)	(\$1,000) (G)	(\$1,000) (H)	Col. G Col. F (Percent) (I)
2391	Curtains and draperies.....1954..	172,668	148,900	9,916	13,852	94	167,602	148,900	18,702	89
	1947..	109,640	100,117	2,584	6,939	97	110,833	100,117	10,716	90
2392	Housefurnishings, n.e.c.....1954..	503,203	434,354	42,919	25,930	91	739,365	434,354	305,011	359
	1947..	502,461	446,536	33,240	22,685	93	512,063	446,536	365,527	387
2393	Textile bags.....1954..	220,978	179,172	33,904	7,902	84	210,191	179,172	31,019	85
	1947..	355,981	326,172	25,672	4,137	93	334,335	326,172	8,163	98
2394	Canvas products.....1954..	129,611	107,411	13,097	9,103	89	124,042	107,411	16,631	86
	1947..	91,108	80,722	7,665	2,721	91	87,071	80,722	6,349	93
2395	Tucking, pleating and stitching.....1954..	34,578	(4)	214	34,364	(4)	(5)	(4)	(5)	(5)
	1947..	25,237	(4)	189	25,048	(4)	(5)	(4)	(5)	(5)
2396	Trimnings and art goods.....1954..	242,915	221,722	7,383	13,810	97	266,610	221,722	44,888	83
	1947..	127,672	112,619	7,140	7,913	94	118,180	112,619	5,561	95
2397	Schiffli-machine embroideries.....1954..	65,834	49,273	753	15,808	98	49,832	49,273	559	99
	1947..	55,514	32,200	615	22,699	98	33,421	32,200	1,221	96
2398	Embroideries, except Schiffli.....1954..	56,155	30,175	616	25,364	98	31,509	30,175	1,334	96
	1947..	44,392	21,080	661	22,651	97	22,037	21,080	957	96
2399	Textile products, n.e.c.....1954..	201,198	155,185	23,537	22,476	87	200,553	155,185	45,368	77
	1947..	189,632	153,847	21,433	14,352	88	176,748	153,847	22,901	87

<sup>1</sup>The specialization ratio compares the given industry's shipments of its primary products to its total shipments of all products. (The primary products are listed in Tables 5B and 6A; the first 4-digits of the product code represent the industry code to which the product is primary.)

<sup>2</sup>The coverage ratio measures the extent to which the total shipments of products primary to the given industry are shipped by establishments classified in that industry.

<sup>3</sup>In 1947 a number of textile mills producing sheets and pillowcases reported such shipments as gray broad woven fabrics, code 2233. This resulted in an understatement of the total value of primary products made in all industries and primary products made in other industries. In addition, the change in reporting of fabricating departments of textile mills results in some non-comparability of the coverage ratios for 1954 and 1947 (see text for industry).

<sup>4</sup>The primary activity of this industry consists of services for the trade, data for which are included with miscellaneous receipts; specialization is over 90 percent.

<sup>5</sup>The value of tucking, pleating, and stitching done outside industry 2395 is not known; the coverage ratio therefore has not been calculated.

## MANUFACTURES--INDUSTRY STATISTICS

Table 5B.--INDUSTRY-PRODUCT ANALYSIS--VALUE OF SHIPMENTS BY PRODUCT CLASS AND INDUSTRY, FOR THE UNITED STATES: 1954

(In thousands of dollars. Each column shows for the industry listed in the column heading, the value of shipments divided between miscellaneous fabricated textile products, other products, and miscellaneous receipts. Each figure represents the amount of the product class shown at the left shipped by the industry listed at the top of the column. The first four digits of the product class codes at the left represent the codes of the industries to which they are primary. All other product classes in a column represent products secondary to the specified industry.)

Prod. class code	Class of products and miscellaneous receipts	Curtains and draperies (S.I.C. 2391)	House furnishings, n.e.c. (S.I.C. 2392)	Textile bags (S.I.C. 2393)	Canvas products (S.I.C. 2394)	Tucking, pleating, and stitching (S.I.C. 2395)	Trimings and art goods (S.I.C. 2396)	Schiffli-machine embroideries (S.I.C. 2397)	Embroideries, except Schiffli (S.I.C. 2398)	Textile products n.e.c. (S.I.C. 2399)	Cotton broad-woven fabrics (S.I.C. 2233)	Other industries	All industries
	Total industry shipments....	172,668	503,203	220,978	129,611	34,578	242,915	65,834	56,155	201,198	xxx	xxx	xxx
	Miscellaneous fabricated textile products.....	156,583	454,894	184,057	113,824	172	222,495	49,886	30,587	164,693	253,135	159,378	1,789,704
23910	Curtains and draperies, except lace.....	148,900	8,706	...	178	...	...	...	...	( <sup>1</sup> )	1,058	8,750	167,602
23921	Bedspreads and bed sets....	4,618	60,781	...	...	...	...	...	...	( <sup>1</sup> )	19,230	4,435	89,305
23922	Sheets and pillow cases <sup>2</sup> ....	...	73,550	...	...	...	...	...	...	...	109,952	30,772	214,274
23923	Towels and wash cloths <sup>2</sup> ....	...	51,138	772	455	...	...	...	...	( <sup>1</sup> )	92,078	3,207	147,717
23924	Other house furnishings.....	2,254	233,316	527	1,119	...	110	...	...	4,590	6,601	<sup>3</sup> 23,157	271,674
23920	Housefurnishings, not specified by kind.....	( <sup>1</sup> )	15,569	...	( <sup>1</sup> )	...	( <sup>1</sup> )	...	...	( <sup>1</sup> )	...	608	16,395
23930	Textile bags, except laundry and wardrobe bags.....	...	1,187	179,172	2,679	...	...	...	...	882	14,196	12,075	210,191
23940	Canvas products.....	( <sup>1</sup> )	2,998	2,624	107,411	...	...	...	...	2,152	3,132	5,709	124,042
23960	Trimings, stamped art goods, and art needlework..	( <sup>1</sup> )	631	258	...	( <sup>1</sup> )	221,722	117	129	1,651	...	42,030	266,610
23970	Schiffli-machine embroideries.....	...	...	...	...	...	294	49,273	173	...	...	( <sup>1</sup> )	49,832
23980	Embroideries, except Schiffli-machine.....	...	( <sup>1</sup> )	...	...	144	185	382	30,175	( <sup>1</sup> )	...	512	31,509
23990	Fabricated textile products, n.e.c.....	493	6,967	704	1,925	...	116	114	110	155,185	6,888	<sup>4</sup> 28,051	200,553
	Other products.....	2,233	<sup>5</sup> 22,379	<sup>6</sup> 29,019	6,684	42	6,610	140	204	<sup>7</sup> 14,029	xxx	xxx	xxx
	Miscellaneous receipts.....	13,852	25,930	7,902	9,103	34,364	13,810	15,808	25,364	22,476	xxx	xxx	xxx
	Contract and commission work.....	12,082	24,233	493	3,627	34,351	13,382	15,723	25,313	21,308	xxx	xxx	xxx
	Resales of products <sup>8</sup> .....	1,296	...	( <sup>9</sup> )	( <sup>9</sup> )	...	...	...	...	( <sup>9</sup> )	xxx	xxx	xxx
	Scrap and saleable refuse...	( <sup>9</sup> )	1,458	( <sup>9</sup> )	( <sup>9</sup> )	( <sup>1</sup> )	( <sup>9</sup> )	...	( <sup>1</sup> )	( <sup>9</sup> )	xxx	xxx	xxx
	Repair work and installation work by manufacturing plant employees.....	( <sup>9</sup> )	( <sup>9</sup> )	( <sup>9</sup> )	4,286	...	...	...	...	( <sup>9</sup> )	...	...	...
	Other receipts.....	474	239	7,409	1,190	( <sup>1</sup> )	428	( <sup>1</sup> )	( <sup>1</sup> )	1,168	xxx	xxx	xxx

xxx Not applicable.

<sup>1</sup>Less than \$100 thousand.

<sup>2</sup>Product classes 23922 and 23923 are also primary to Industry 2233, Cotton Broad Woven Fabrics.

<sup>3</sup>Includes \$7,290 thousand shipped by Industry 3981, Brooms and Brushes.

<sup>4</sup>Includes \$7,533 thousand shipped by Industry 3842, Surgical Appliances and Supplies.

<sup>5</sup>Includes \$4,248 thousand of Tufted carpets and rugs, except wool (code 22731).

<sup>6</sup>Includes \$2,115 thousand of Jute goods (code 22971), \$3,421 thousand of paper specialty bags and liners (code 26612), and \$18,298 thousand of paper shipping sacks and multiwall bags (code 26614).

<sup>7</sup>Includes \$2,173 thousand of Parts and accessories for motor vehicles (code 37175).

<sup>8</sup>Represents resales for which cost of goods sold was not reported separately; this amount is not included in the "resales" item of Table 3.

<sup>9</sup>Included with "other receipts."



## MISCELLANEOUS FABRICATED TEXTILE PRODUCTS

23F-15

Table 6A.--QUANTITY AND VALUE OF PRODUCTS SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, FOR THE UNITED STATES: 1954 AND 1947

Product code	Product	Unit of quantity	Total shipments including interplant transfers			
			1954		1947	
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
2391---	Curtains and draperies, except lace, total.....	.....	xxx	167,602	xxx	110,833
	Window curtains, excluding lace curtains:	Thousand pairs or sets.....				
2391011	Wholly or chiefly cotton.....	.....	22,500	40,464	31,589	75,856
2391015	Plastic.....	.....do.....	7,172	7,373	6,111	13,508
2391019	Other.....	.....do.....	27,586	57,040		
	Draperies:					
2391051	{ Wholly or chiefly cotton, quantity reported.....	.....do.....	4,087	15,055	1,120	6,833
	{ Wholly or chiefly cotton, quantity not reported.....	.....xxx	xxx	3,329		
2391053	{ Plastic.....	Thousand pairs or sets.....	5,385	7,360	1,239	3,098
2391059	{ Other, quantity reported.....	.....do.....	2,730	8,785		
	{ Other, quantity not reported.....	.....xxx	xxx	2,839		
2391000	Curtains and draperies, not specified by kind.....	.....	xxx	25,357	xxx	11,538
2392---	Housefurnishings, n.e.c., total.....	.....	xxx	739,365	xxx	( <sup>1</sup> )
23921	Bedsprads and bed sets.....	.....	xxx	89,305	xxx	75,859
2392121	Tufted.....	Thousand.....	12,799	48,530	(NA)	41,724
	Jacquard-woven:					
2392151	{ Wholly or chiefly cotton.....	.....do.....	4,263	25,806		22,976
2392159	{ Other, quantity reported.....	.....do.....	323	2,757		5,878
	{ Other, quantity not reported.....	.....xxx	xxx	699		
2392171	Other bedsprads and bed sets:					
2392179	{ Wholly or chiefly cotton.....	Thousand.....	2,179	9,195	(NA)	3,920
	{ Other.....	.....do.....	480	2,318		1,361
23922	Sheets and pillow cases.....	.....	xxx	214,274	xxx	( <sup>1</sup> )
2392211	{ Sheets, quantity reported.....	Thousand dozens	8,334	159,582	(NA)	( <sup>1</sup> )
2392251	{ Sheets, quantity not reported.....	.....xxx	xxx	7,293		
	{ Pillowcases.....	Thousand dozens	8,860	46,533		
2392200	Sheets and pillow cases, not specified by kind.....	.....	xxx	866	xxx	xxx
23923	Towels and wash cloths (not made in knitting mills).....	.....	xxx	147,717	xxx	117,159
	Towels:					
2392311	Terry-woven.....	Thousand dozens	19,553	92,504	(NA)	76,020
2392321	Huck.....	.....do.....	4,297	8,563	(NA)	7,450
2392331	Plain and twill-woven (including dish towels).....	.....do.....	9,856	18,568	(NA)	12,072
2392341	{ Other towels, quantity reported.....	.....do.....	987	1,993	(NA)	2,159
	{ Other towels, quantity not reported.....	.....xxx	xxx	1,173	(NA)	
2392351	Washcloths.....	Thousand dozens	23,964	23,679	(NA)	19,458
2392300	Towels and wash cloths, not specified by kind.....	.....	xxx	1,237	xxx	xxx
23924	Other housefurnishings.....	.....	xxx	271,674	xxx	192,517
	Shower bath curtains:					
2392411	{ Plastic (unsupported film), quantity reported.....	Thousand.....	3,879	7,150	(NA)	9,354
2392415	{ Plastic (unsupported film), quantity not reported.....	.....xxx	xxx	3,771		
	{ Other, including coated fabrics.....	Thousand.....	1,214	2,752		
	Comforters and wadded quilts:					
2392421	Feather or down.....	.....do.....	296	2,571	(NA)	4,361
2392429	Other.....	.....do.....	3,115	13,315		11,481
	Quilted products:					
2392431	Mattress protectors.....	.....do.....	5,335	12,714	(NA)	5,560
2392435	{ Baby pads, quantity reported.....	.....do.....	3,698	1,904		4,193
2392439	{ Baby pads, quantity not reported.....	.....xxx	xxx	594		
	{ Other.....	.....xxx	xxx	8,013	xxx	4,280
	Tablecloths, napkins, and related articles, except lace:					
2392441	{ Tablecloths, quantity reported.....	Thousand.....	5,819	10,234	(NA)	13,014
2392445	{ Tablecloths, quantity not reported.....	.....xxx	xxx	2,825		2,799
2392449	{ Napkins, quantity reported.....	Thousand dozens	2,446	3,276		
	{ Napkins, quantity not reported.....	.....xxx	xxx	741		
	Other table and dresser covers and scarfs, table doilies and mats, tray cloths, table sets (luncheon, bridge, and similar) and related articles, except lace.....	.....	xxx	14,894	xxx	6,232
	Pillows, excluding foam rubber <sup>2</sup> :					
2392451	Bed pillows, excluding foam rubber pillows.....	Thousand.....	4,949	12,830	(NA)	13,294
2392459	Fancy pillows and cushions.....	.....	xxx	17,550		6,534
	Miscellaneous textile house furnishings, except embroidered:					
	Slip covers:					
2392461	Furniture.....	Thousands.....	5,384	32,743	(NA)	23,294
2392465	Mattress.....	.....do.....	2,324	4,647		4,947
2392469	Other.....	.....xxx	xxx	4,384		3,765
	Mops and dusters:					
2392471	{ Dry mops and dusters, quantity reported.....	Thousands.....	15,063	11,227	(NA)	21,420
	{ Dry mops and dusters, quantity not reported.....	.....xxx	xxx	1,429		
2392473	{ Wet mops, quantity reported.....	Thousands.....	25,852	13,992		
	{ Wet mops, quantity not reported.....	.....xxx	xxx	1,996		
2392475	{ Sponge mops, quantity reported.....	Thousands.....	6,025	6,894	(NA)	837
	{ Sponge mops, quantity not reported.....	.....xxx	xxx	837		

See footnotes at end of table.

## MANUFACTURES—INDUSTRY STATISTICS

Table 6A.--QUANTITY AND VALUE OF PRODUCTS SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, FOR THE UNITED STATES: 1954 AND 1947--Continued

Product code	Product	Unit of quantity	Total shipments including interplant transfers			
			1954		1947	
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
2392----	Housefurnishings, n.e.c.--Continued					
	Other housefurnishings--Continued					
2392481	Laundry and wardrobe bags, quantity reported.....	Thousands.....	6,412	8,505	} (NA)	57,989
2392498	Laundry and wardrobe bags, quantity not reported.....	.....	xxx	1,637		
	All other housefurnishings, except embroidered.....	.....	xxx	43,754		
2392400	Other housefurnishings, not specified by kind.....	.....	xxx	24,495	xxx	xxx
2392000	Housefurnishings, n.e.c., not specified by kind.....	.....	xxx	16,395	xxx	xxx
2393----	Textile bags, except laundry and wardrobe bags, total.....	.....	xxx	210,191	xxx	334,335
		Thousand lin.				
2393011	Cotton.....	yds.....	419,381	96,961	} (NA)	} 168,246
2393031	Burlap.....	.....do.....	597,588	79,300		
2393098	{ Other bags, including open mesh paper bags, quantity reported.....	.....do.....	149,812	18,923		
	{ Other bags, including open mesh paper bags, quantity not reported.....	.....	xxx	5,996		22,337
2393000	Textile bags, not specified by kind.....	.....	xxx	9,011	xxx	xxx
2394----	Canvas products, total.....		xxx	124,042	xxx	87,071
2394011	Painted awning strips.....	Thousand yds...	5,507	3,671	(NA)	5,388
2394021	Awnings.....	.....	xxx	18,980	xxx	20,610
2394031	Tents.....	.....	xxx	13,979	xxx	5,867
2394041	Sails.....	.....	xxx	1,924	xxx	3,472
2394051	Tarpaulin cover for trucks, boats, etc.....	.....	xxx	17,753	xxx	} 37,312
2394098	Other canvas products.....	.....	xxx	34,536	xxx	
2394000	Canvas products, not specified by kind.....	.....	xxx	33,199	xxx	14,422
Total value of shipments including interplant transfers (\$1,000)						
			1954		1947	
2396----	Trimmings, stamped art goods, and art needlework, total.....		266,610		118,180	
	Trimmings:					
2396011	Women's and children's apparel findings and trimmings.....		26,571		10,411	
2396015	Automobile and furniture.....		151,539		30,892	
2396019	Other.....		24,592		12,503	
	Bias binding:					
2396031	For the apparel trades.....		18,873		13,814	
2396035	For the notion trade.....		7,167		4,056	
2396051	Stamped art goods for embroidering and punching.....		9,094		7,455	
2396098	Other trimmings, stamped, art goods, and art needlework.....		9,461		} 39,049	
2396000	Trimmings, stamped art goods, and art needlework, not specified by kind.....		19,313			
2397----	Schiffli-machine embroideries.....		49,832		33,421	
2398----	Embroideries, except Schiffli-machine.....		31,509		22,037	
		Unit of quantity	Total shipments including interplant transfers			
			1954		1947	
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
2399----	Fabricated textile products, n.e.c., total.....	.....	xxx	200,553	xxx	176,748
	Automobile seat covers:					
2399011	Plastic and plastic combination.....	Thousand sets..	3,782	<sup>3</sup> 42,739	} 8,414	73,988
2399015	Other.....	.....do.....	1,045	<sup>3</sup> 10,591		
2399021	Diapers (woven, knitted, and non-woven textiles).....	Thousand dozens	16,261	25,161	7,558	15,476
2399031	Sleeping bags.....	Thousands.....	905	8,531	130	1,743
2399041	Flags, banners, and similar emblems.....	.....	xxx	9,620	xxx	7,506
2399051	Badges, insignia, and similar emblems (textile).....	.....	xxx	3,952	xxx	3,860
2399081	{ Powder puffs, quantity reported.....	Thousand dozen.	4,227	3,158	} (NA)	74,175
	{ Powder puffs, quantity not reported.....	.....	xxx	1,232		
2399098	All other fabricated textile products.....	.....	xxx	70,169		
2399000	Fabricated textile products, n.e.c., not specified by kind.....	.....	xxx	<sup>3</sup> 25,400		

xxx Not applicable.

NA Not available.

<sup>1</sup>Data for 1947 are not comparable with 1954 information because a number of textile mills producing sheets and pillowcases in 1947 reported them as shipments of gray broad woven fabrics, code 2233.

<sup>2</sup>Data for 1954 for code 2392459 include foam rubber pillows not made in rubber plants.

<sup>3</sup>Approximately 25 percent of the value reported for fabricated textile products, n.e.c., not specified by kind represents seat covers produced by small establishments that did not report products in detail.

## MISCELLANEOUS FABRICATED TEXTILE PRODUCTS

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Table 6B.—VALUE OF PRODUCT CLASSES SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, BY DIVISIONS AND STATES FOR 1954,  
AND UNITED STATES TOTALS FOR EARLIER YEARS

(In thousands of dollars. Statistics are shown for selected product classes which are economically significant and production of which is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (Table 2) and they are not miscellaneous or "not specified by type" classes. For each product class, States are listed only if the value of shipments is more than \$1 million and the figure does not disclose individual company information. Additional States which had shipments of more than \$1 million of the individual product classes are listed in footnote 1.)

Product class, region, and State <sup>1</sup>	Value of shipments	Product class, region, and State <sup>1</sup>	Value of shipments	Product class, region, and State <sup>1</sup>	Value of shipments
<b>Bedspreads and bed sets (23921)</b>		<b>Towels and washcloths, woven (23923)—Continued</b>		<b>Other housefurnishings (23924)—Continued</b>	
1954 United States, total.....	89,305	1952 United States, total.....	150,536	West South Central.....	5,033
1953 United States, total.....	84,426	1951 United States, total.....	141,047	Oklahoma.....	1,417
1952 United States, total.....	84,090	1947 United States, total.....	117,159	Texas.....	2,999
1951 United States, total.....	73,772				
1947 United States, total.....	75,859				
1954		1954			
New England.....	13,089	Middle Atlantic.....	4,853	Pacific.....	13,776
Middle Atlantic.....	17,758	New York.....	2,446	California.....	12,990
New York.....	12,652	New Jersey.....	2,152		
New Jersey.....	2,046	East North Central.....	1,906	<b>Textile bags, except laundry and wardrobe bags (23930)</b>	
Pennsylvania.....	3,060	South Atlantic.....	118,588	1954 United States, total.....	210,191
South Atlantic.....	45,684	Georgia.....	20,502	1953 United States, total.....	245,519
North Carolina.....	10,022	East South Central.....	21,596	1952 United States, total.....	329,557
Georgia.....	34,711			1951 United States, total.....	371,854
East South Central.....	10,909	<b>Other housefurnishings (23924)</b>		1950 United States, total.....	313,072
Pacific.....	1,356	1954 United States, total.....	271,674	1947 United States, total.....	334,335
California.....	1,356	1947 United States, total.....	192,517		
		1954		1954	
<b>Sheets and pillowcases (23922)</b>		New England.....	25,751	New England.....	3,796
1954 United States, total.....	214,274	Massachusetts.....	17,609	Maine.....	1,215
1953 United States, total.....	(2)	Connecticut.....	7,066	Middle Atlantic.....	35,585
1952 United States, total.....	(2)	Middle Atlantic.....	129,025	New York.....	23,810
1951 United States, total.....	(2)	New York.....	89,886	New Jersey.....	5,172
1950 United States, total.....	(2)	New Jersey.....	14,004	Pennsylvania.....	6,602
1947 United States, total.....	(2)	Pennsylvania.....	25,135	East North Central.....	21,898
1954		East North Central.....	43,995	Ohio.....	4,999
New England.....	23,349	Ohio.....	7,926	Indiana.....	5,616
Middle Atlantic.....	6,319	Illinois.....	30,826	Illinois.....	6,994
New York.....	4,488	Michigan.....	2,667	Michigan.....	1,449
East North Central.....	1,023	Wisconsin.....	1,589	Wisconsin.....	2,839
South.....	183,200	West North Central.....	7,224	West North Central.....	41,370
South Atlantic.....	160,708	Minnesota.....	1,622	Minnesota.....	10,583
North Carolina.....	60,350	Missouri.....	3,727	Missouri.....	22,990
South Carolina.....	73,997	South Atlantic.....	39,373	South Atlantic.....	26,342
<b>Towels and washcloths, woven (23923)</b>		Maryland.....	11,775	Maryland.....	4,059
1954 United States, total.....	147,717	Virginia.....	6,697	Virginia.....	9,177
1953 United States, total.....	152,243	North Carolina.....	15,113	North Carolina.....	3,685
		Georgia.....	2,902	Georgia.....	8,457
		Florida.....	1,256	East South Central.....	21,338
		East South Central.....	7,096	Tennessee.....	18,636
		Kentucky.....	3,421	West South Central.....	29,879
		Tennessee.....	2,151	Texas.....	17,522
				Mountain.....	2,320
				Pacific.....	27,663
				California.....	16,140

Note: The figures shown for 1950 to 1953 are sample estimates obtained from the Annual Survey of Manufactures for those years. Since the estimates are based on a sample they are subject to sampling variability, that is, they are not the same as figures which would have been obtained if complete censuses had been taken for those years. Measures of the sampling variability (standard errors) of the estimated total value of shipments of each product class are shown in the Annual Survey of Manufactures publications. Also shown are the standard errors of the relative change in shipments between some consecutive Annual Survey years which are the more significant measures when the series is studied for trend.

<sup>1</sup>For the specified product classes, shipments of over \$1 million were reported for the States listed by the exact figures are withheld to avoid disclosure of individual company figures: 23921—Maine, Massachusetts, Tennessee, and Alabama; 23922—Maine, Massachusetts, New Jersey, Virginia, Georgia, Alabama, Arkansas, Oklahoma, and Texas; 23923—Illinois, Virginia, North Carolina, South Carolina, Tennessee, and Alabama; 23924—Iowa, and South Carolina; 23930—Massachusetts, Alabama, Louisiana, Colorado, Utah, Washington, and Oregon.

<sup>2</sup>Data for 1953 and prior years not comparable with 1954 information because a number of textile mills producing sheets and pillowcases during 1947-1953 reported them as shipments of grey broad woven fabrics, code 2233.

TABLE 7 NOT APPLICABLE TO THIS BULLETIN



## MANUFACTURES—INDUSTRY STATISTICS

Table 8.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY INDUSTRY SPECIALIZATION AND PRIMARY PRODUCT CLASS SPECIALIZATION, FOR THE UNITED STATES: 1954

(This table presents selected statistics for establishments classified according to their degree of specialization in products primary to the industry. The establishments are classified in two ways: (1) by industry specialization—the degree of specialization in all primary products of the industry; and (2) by product-class specialization—the degree of specialization in the largest product class of the establishment. The degree of "industry specialization" for an establishment represents the ratio of its primary product shipments to its total product shipments, primary and secondary. The degree of "product-class specialization" for an establishment represents the ratio of its largest product class shipments to its total product shipments, primary and secondary. Data are not shown for some industries, product classes, and specialization ranges for a variety of reasons, consequently, detailed figures frequently do not add to the totals. See Introduction for detailed explanation)

Ind. or product class No.	Industry or product class by percent of specialization	Establishments, number	All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
2392	HOUSEFURNISHINGS (entire industry).....	1,213	36,188	97,105	31,948	59,271	71,686	173,910	329,293	503,203
	Establishments with:									
	90% or more specialization.....	814	23,167	63,204	20,522	38,380	47,615	118,337	245,838	364,175
	75-89% specialization.....	84	4,077	11,597	3,468	6,427	7,701	20,570	32,798	53,368
	50-74% specialization.....	130	5,230	13,078	4,586	8,310	9,180	21,518	40,159	61,678
	All other <sup>1</sup> .....	185	3,713	9,226	3,371	6,153	7,189	13,485	10,496	23,981
23921	Bedsprings and bed sets:									
	All establishments specializing in product class.	123	5,850	11,934	5,520	9,830	10,040	20,850	37,272	58,123
	Establishments with:									
	90% or more specialization.....	79	4,051	7,675	3,857	6,951	6,747	14,672	24,429	39,102
	75-89% specialization.....	15	856	1,772	814	1,395	1,656	2,534	5,262	7,796
	50-74% specialization.....	25	823	2,281	735	1,301	1,473	3,275	6,847	10,123
	Less than 50% specialization.....	4	119	205	112	182	163	368	733	1,102
23922	Sheets and pillow cases:									
	All establishments specializing in product class.	26	4,350	13,357	3,925	7,598	11,313	24,580	64,175	88,756
	Establishments with:									
	90% or more specialization.....	18	1,838	4,656	1,711	3,234	4,201	8,793	36,784	45,578
23923	Towels and wash cloths, woven:									
	All establishments specializing in product class.	39	2,492	6,107	2,309	4,337	5,014	12,369	42,259	54,629
	Establishments with:									
	90% or more specialization.....	21	1,415	3,535	1,316	2,515	2,977	7,810	29,253	37,064
	50-74% specialization.....	14	659	1,555	586	981	1,064	3,662	9,852	13,514
23924	Other housefurnishings:									
	All establishments specializing in product class.	681	18,946	55,453	16,055	30,086	37,177	99,940	168,193	268,133
	Establishments with:									
	90% or more specialization.....	495	10,612	31,409	9,038	16,883	21,268	59,027	96,697	155,724
	75-89% specialization.....	57	2,563	7,157	2,118	3,969	4,585	13,879	19,851	33,730
	50-74% specialization.....	104	4,057	11,075	3,494	6,681	7,884	18,443	37,565	56,008
	Less than 50% specialization.....	25	1,712	5,811	1,404	2,553	3,440	8,590	14,080	22,671
2393	TEXTILE BAGS (entire industry).....	268	12,109	35,120	9,897	18,748	24,329	51,641	169,337	220,978
	Establishments with:									
	90% or more specialization.....	190	5,610	15,538	4,689	8,807	10,977	24,292	82,771	107,063
	75-89% specialization.....	29	2,650	7,596	2,178	4,114	5,257	9,067	41,879	50,946
	50-74% specialization.....	39	3,481	10,982	2,754	5,286	7,457	16,838	42,668	59,507
	All other <sup>1</sup> .....	10	367	1,003	274	539	637	1,442	2,018	3,461
2394	CANVAS PRODUCTS N.E.C. (entire industry).....	1,119	13,540	40,180	10,724	20,498	25,917	61,442	68,170	129,611
	Establishments with:									
	90% or more specialization.....	902	9,570	27,771	7,637	14,443	18,349	42,816	47,381	90,197
	75-89% specialization.....	70	733	2,225	563	1,028	1,335	3,377	3,281	6,659
	50-74% specialization.....	97	2,473	8,452	1,862	3,953	5,111	12,799	14,803	27,603
	All other <sup>1</sup> .....	50	763	1,731	662	1,072	1,121	2,448	2,703	5,152
2399	TEXTILE PRODUCTS N.E.C. (entire industry).....	1,104	18,006	52,167	15,280	28,733	37,314	87,272	113,923	201,198
	Establishments with:									
	90% or more specialization.....	795	9,879	27,242	8,323	15,457	19,254	47,615	73,600	121,219
	75-89% specialization.....	37	1,616	4,993	1,318	2,504	3,166	8,985	13,555	22,541
	50-74% specialization.....	53	2,175	6,352	1,839	3,573	4,414	10,413	15,866	26,280
	All other <sup>1</sup> .....	219	4,335	13,578	3,799	7,198	10,478	20,257	10,900	31,157

<sup>1</sup>This class includes data for establishments with less than 50% specialization in the primary products of the industry and establishments engaged exclusively in contract work defined in the industry. Miscellaneous small statistical adjustments are also included.







## Major Group 24.—Lumber and Wood Products

This major group includes logging camps engaged in cutting timber and pulpwood, sawmills, veneer mills, lath mills, shingle mills, cooperage-stock mills, planing mills, and plywood mills engaged in producing lumber and wood basic materials; and establishments engaged in manufacturing finished articles made entirely or mainly of wood. Certain types of establishments producing wood products are classified elsewhere. For example, furniture and office and store fixtures are

classified in Major Group 25, Furniture and fixtures; pianos, musical instruments, toys and playground equipment, and caskets and coffins in Major Group 39; miscellaneous manufactures. Additional wood products classified outside of this major group are specified in the description of Industry 2499 below. Woodworking in connection with construction, in the nature of reconditioning and repair, or performed to individual order, is classified in nonmanufacturing industries.

Table 1.—GENERAL STATISTICS FOR THE INDUSTRY GROUP: 1934 AND EARLIER YEARS  
(For explanation of column captions see Introduction)

Year <sup>1</sup>	Establishments, number	All employees <sup>2</sup>		Production workers			Value added by manufacture <sup>3</sup>	Capital expenditures, new	Horsepower of prime movers and electric motors <sup>4</sup>
		Number	Payroll	Number	Man-hours	Wages			
			(\$1,000)		(1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(1,000 hp)
1954 <sup>5</sup> .....	41,484	654,936	1,933,523	581,920	1,106,955	1,604,859	3,188,409	217,361	5,151
1953 <sup>6</sup> .....	(NA)	719,900	2,086,794	658,352	1,235,784	1,803,186	3,500,524	182,995	
1952 <sup>6</sup> .....	(S)	742,705	2,071,546	686,758	1,269,903	1,786,324	3,449,260	177,820	(NA)
1951 <sup>6</sup> .....	(S)	770,493	2,014,894	713,473	1,308,331	1,738,652	3,523,177	239,583	
1950 <sup>6</sup> .....	41,506	750,499	1,748,234	691,938	1,271,752	1,509,888	3,165,760	191,817	(NA)
1949 <sup>6</sup> .....	(NA)	649,144	1,421,649	600,972	1,083,233	1,210,161	2,283,929	147,481	
1947 <sup>7</sup> .....	26,312	641,799	1,351,957	601,412	1,255,102	1,191,052	2,520,402	173,574	2,998
1939.....	13,208	(NA)	(NA)	422,947		355,142	731,208	(NA)	
1937 <sup>7</sup> .....	11,747	(NA)	(NA)	436,181		368,468	714,278		(NA)
1935.....	11,280	414,455	340,326	384,160		282,568	541,704		
1933.....	8,356	314,402	211,868	293,905		181,830	379,130		
1931.....	11,141	(NA)	(NA)	326,674		276,489	524,410		
1929 <sup>8</sup> .....	20,928	651,259	759,310	603,426		632,183	1,322,049		
1927.....	14,949	649,153	748,375	602,305	(NA)	631,860	1,179,184		
1925.....	16,878	725,762	814,797	674,217		693,285	1,332,641		
1923 <sup>9</sup> .....	16,671	745,910	820,046	692,852		700,808	1,399,394		
1921.....	16,548	565,809	581,330	520,731		422,762	852,830		
1919.....	35,872	714,592	773,506	663,414		667,960	1,298,250		
1914 <sup>10</sup> .....	37,949	717,727	409,893	671,580		349,021	646,937		
1909.....	44,822	(NA)	(NA)	757,654		346,765	708,104		
1904.....	29,308	(NA)	(NA)	595,476		272,311	577,475		
1899.....	32,356	(NA)	(NA)	562,932		209,112	436,834		

NA Not available.

S Withheld because the estimate did not meet publication standards, either on the basis of the associated standard error of estimate or on the basis of a consistency review.

<sup>1</sup>In addition to data for operating establishments, manufacturers' central administrative offices and auxiliary units reported 4,858 employees with a payroll of \$30,383 thousand in 1954. Similar data are shown for the years 1949-1953 in the Annual Survey of Manufactures volumes. Data for these units are not available for the years prior to 1949.

<sup>2</sup>The figures for 1939 through 1954 include data for employees of manufacturing establishments who were engaged in distribution and construction work. The extent to which data for such employees are included in the figures for earlier years is not known.

<sup>3</sup>Value of products less cost of materials, supplies, fuel, electricity, and contract work. For 1899-1933 cost of contract work was not subtracted from value of products in calculating value added by manufacture.

<sup>4</sup>Driven by purchased energy.

<sup>5</sup>The figures for 1949-1954 include loggers and sawmills (with one or more paid employees as reported to the Bureau of Old Age and Survivors Insurance). In 1954, the loggers accounted for 11.7 percent of the employment in this group, and it is estimated that sawmills and planing mills producing less than 200,000 board feet (excluded from 1947 coverage) accounted for less than two percent of the total employment for the group. A significant under coverage in the 1950 and 1949 sample for this major industry group is to be noted, especially in Industry 2411 (logging camps and logging contractors).

<sup>6</sup>The figures for 1949-1953 represent estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufacturers. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard error associated with these estimates are published in the Annual Survey of Manufactures volumes for this period.

<sup>7</sup>The figures for 1937-1947 exclude data for logging contractors and independent logging camps not operating sawmills as well as establishments primarily engaged in manufacture of venetian blinds, which are included for these years in the series for the "Furniture and Fixtures" industries. Value added by manufacture for 1937, including data for these establishments and as a basis comparable with 1935 was \$758.3 million.

<sup>8</sup>The figures for 1899-1929 do not include data for establishments primarily engaged in manufacture of wood vehicle stock, which are included for these years in the series for the "Transportation Equipment" industries. Value added by manufacture for 1931, excluding data for these establishments and on a basis comparable with 1929, was \$523.8 million.

<sup>9</sup>The figures for 1899-1923 include data for establishments engaged in manufacture of rules made of metal and other materials as well as wood, whereas the figures for later years include data for establishments making wooden rules only.

<sup>10</sup>The figures for 1914 do not include data for establishments engaged in manufacture of lath and shingles. The figures for 1899-1909 include data for establishments primarily engaged in manufacture of windows and door screens, which are included for later years in the series for the "Furniture and Fixtures" industries. Value added by manufacture for 1914, including data for these establishments, was \$651.8 million.

## MANUFACTURES--INDUSTRY STATISTICS

Table 2.—GENERAL STATISTICS FOR INDUSTRY GROUPS BY REGIONS AND STATES: 1954 AND 1947  
(For explanation of column captions see Introduction)

Industry group, region, and State <sup>1</sup>	1954							1947		
	Number of establish- ments	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
		Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
Lumber and wood products (S.I.C. Group 24), total <sup>2</sup> .....	41,484	645,936	1,933,523	581,920	1,106,955	1,604,859	3,188,409	217,361	( <sup>2</sup> )	( <sup>2</sup> )
New England.....	3,541	36,759	96,981	32,552	65,570	80,147	145,890	9,526	( <sup>2</sup> )	( <sup>2</sup> )
Maine.....	1,829	17,622	42,672	16,019	32,435	37,278	63,470	5,217		
New Hampshire.....	601	6,237	16,711	5,519	11,171	13,602	24,478	2,005		
Vermont.....	418	4,820	11,673	4,356	8,837	9,903	18,233	824		
Massachusetts.....	488	6,000	18,969	4,990	9,819	14,285	28,659	1,032		
Rhode Island.....	35	474	1,669	389	735	1,180	2,407	( <sup>3</sup> )		
Connecticut.....	170	1,604	5,284	1,278	2,570	3,896	8,640	( <sup>3</sup> )		
Middle Atlantic.....	3,372	37,583	116,613	32,234	64,294	89,184	181,359	9,064		
New York.....	1,471	17,872	59,267	15,250	31,047	44,367	92,459	4,567		
New Jersey.....	343	5,284	18,121	4,420	8,962	13,518	28,759	975		
Pennsylvania.....	1,558	14,425	39,224	12,562	24,283	31,298	60,140	3,520		
East North Central.....	4,302	66,020	216,759	56,266	111,257	162,080	340,851	16,234		
Ohio.....	847	9,999	33,142	8,427	16,272	23,882	53,987	2,296		
Indiana.....	530	10,789	35,805	9,000	17,757	25,152	59,078	3,185		
Illinois.....	704	12,495	46,450	10,256	20,120	32,962	69,020	2,614		
Michigan.....	1,292	14,767	45,318	12,707	24,373	35,220	73,174	3,918		
Wisconsin.....	929	17,970	56,042	15,874	32,734	44,861	85,589	4,219		
West North Central.....	1,814	23,927	75,354	20,241	38,990	57,191	117,825	4,711		
Minnesota.....	800	8,585	27,974	7,498	13,532	21,837	46,818	2,502		
Iowa.....	198	5,647	18,739	4,409	8,947	13,611	27,791	887		
Missouri.....	595	6,485	18,510	5,622	11,010	14,058	29,055	955		
South Dakota.....	69	865	2,525	767	1,600	2,105	3,374	( <sup>3</sup> )		
Nebraska.....	45	1,126	3,558	921	1,870	2,578	4,604	( <sup>3</sup> )		
Kansas.....	101	1,209	4,028	1,015	2,014	2,984	6,174	( <sup>3</sup> )		
South Atlantic.....	10,308	135,102	268,860	124,225	228,252	224,843	431,308	26,940		
Delaware.....	64	1,000	2,117	917	1,722	1,784	3,465	( <sup>3</sup> )		
Maryland.....	367	4,854	12,980	4,340	8,405	9,795	21,180	1,252		
District of Columbia.....	11	167	686	130	275	390	662	( <sup>3</sup> )		
Virginia.....	1,872	22,767	45,513	20,991	37,305	37,777	72,647	4,540		
West Virginia.....	875	7,820	16,182	7,167	12,834	13,853	23,160	2,336		
North Carolina.....	2,485	32,071	62,328	29,602	53,875	52,450	100,100	5,878		
South Carolina.....	1,257	18,057	32,550	16,686	30,721	27,722	51,695	2,859		
Georgia.....	2,355	32,329	60,542	29,819	54,521	51,266	101,530	5,812		
Florida.....	1,022	16,033	35,959	14,560	28,589	29,803	56,866	4,103		
East South Central.....	4,883	76,290	155,767	70,234	131,496	130,182	259,825	13,567		
Kentucky.....	726	8,574	20,363	7,651	13,403	15,911	31,017	1,335		
Tennessee.....	1,233	18,016	41,001	16,425	31,847	33,411	70,988	3,715		
Alabama.....	1,839	28,386	52,025	26,380	48,672	44,570	86,629	5,366		
Mississippi.....	1,085	21,312	42,376	19,777	37,572	36,288	71,189	3,150		
West South Central.....	3,310	63,934	144,660	58,721	119,555	122,939	223,885	17,524		
Arkansas.....	1,189	21,768	48,056	20,330	41,328	42,267	71,468	7,376		
Louisiana.....	932	19,497	43,419	17,769	36,153	36,379	68,290	4,028		
Oklahoma.....	147	1,929	5,085	1,662	3,292	3,814	7,758	( <sup>3</sup> )		
Texas.....	1,042	20,739	48,098	18,958	38,781	40,477	76,368	5,788		
Mountain.....	1,618	27,418	102,457	24,947	47,791	88,674	172,093	19,712		
Montana.....	393	6,192	23,864	5,635	10,503	20,687	40,751	6,727		
Idaho.....	505	11,590	46,752	10,642	20,365	41,109	83,049	6,726		
Wyoming.....	103	908	2,954	841	1,626	2,584	4,515	( <sup>3</sup> )		
Colorado.....	279	2,912	8,496	2,559	4,709	6,901	12,959	1,953		
New Mexico.....	143	2,032	5,960	1,903	3,553	5,350	9,988	1,152		
Arizona.....	89	2,647	10,223	2,350	5,049	8,527	14,702	2,508		
Utah.....	86	596	1,834	519	1,007	1,461	2,663	( <sup>3</sup> )		
Nevada.....	20	539	2,373	495	975	2,051	3,462	( <sup>3</sup> )		
Pacific.....	8,336	178,899	756,068	162,497	299,746	649,616	1,315,369	100,080		
Washington.....	2,080	47,529	191,943	43,329	75,613	165,965	319,660	22,851		
Oregon.....	3,859	75,635	321,158	69,329	127,566	279,921	573,672	43,451		
California.....	2,397	55,735	242,966	49,837	96,566	203,729	422,036	33,777		
Logging camps and contract- tors (S.I.C. Group 241), total <sup>2</sup> .....	12,865	75,510	210,625	68,171	115,575	182,295	389,928	48,632	( <sup>2</sup> )	( <sup>2</sup> )
Lumber and basic products (S.I.C. Group 242), total...	20,487	341,350	962,339	314,684	592,946	827,536	1,595,384	120,128	2,409,808	21,571,978
New England.....	1,192	9,375	22,269	8,524	16,942	19,246	33,411	3,117	10,878	35,851
Maine.....	513	4,354	10,144	3,984	7,920	8,893	15,309	1,519	4,993	15,727
New Hampshire.....	279	2,017	4,653	1,828	3,523	3,943	6,234	863	2,557	8,678
Vermont.....	209	1,930	4,529	1,742	3,593	3,912	7,560	( <sup>3</sup> )	2,143	7,180
Massachusetts.....	129	700	1,885	628	1,221	1,598	2,673	( <sup>3</sup> )	1,030	3,706

See footnotes at end of table.

## LUMBER AND WOOD PRODUCTS

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Table 2.—GENERAL STATISTICS FOR INDUSTRY GROUPS BY REGIONS AND STATES: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Industry group, region, and State <sup>1</sup>	1954							1947		
	Number of establish- ments	All employees		Production workers			Value added by manu- facture	Capital expendi- tures, new	All employees, number	Value added by manu- facture
		Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
Lumber and basic products (S.I.C. Group 242),—Con.										
Middle Atlantic.....	1,482	11,333	28,405	10,139	19,972	24,234	43,213	3,204	10,728	35,824
New York.....	416	4,203	12,090	3,787	8,138	10,311	18,323	1,249	3,517	13,463
New Jersey.....	61	847	2,619	724	1,365	2,166	3,800	( <sup>3</sup> )	440	3,026
Pennsylvania.....	1,005	6,282	13,694	5,627	10,468	11,756	21,089	1,812	6,771	19,335
East North Central.....	1,739	16,063	45,030	14,362	28,157	36,448	71,168	3,751	17,841	66,562
Ohio.....	497	2,684	6,909	2,367	4,373	5,516	11,256	729	2,242	7,986
Indiana.....	329	3,094	8,921	2,709	5,356	6,733	15,473	531	2,753	10,308
Illinois.....	208	1,539	4,014	1,410	2,722	3,310	6,863	( <sup>3</sup> )	1,292	3,984
Michigan.....	370	4,465	13,379	4,002	7,991	11,107	20,255	1,130	6,673	25,907
Wisconsin.....	335	4,279	11,806	3,872	7,713	9,780	17,319	981	4,881	18,377
West North Central.....	799	5,116	12,363	4,658	8,781	10,355	20,982	1,039	5,296	15,285
Minnesota.....	251	1,190	2,555	1,096	1,934	2,249	4,299	( <sup>3</sup> )	1,500	3,909
Iowa.....	102	367	800	319	585	639	1,567	( <sup>3</sup> )	251	743
Missouri.....	369	2,780	6,760	2,535	4,838	5,541	11,888	( <sup>3</sup> )	2,909	8,176
South Dakota.....	31	536	1,549	499	1,032	1,383	2,108	( <sup>3</sup> )	(D)	(D)
Kansas.....	34	209	624	180	340	478	1,006	( <sup>3</sup> )	(D)	(D)
South Atlantic.....	6,437	86,513	161,207	80,768	145,691	137,649	258,030	16,604	103,946	270,738
Maryland.....	215	2,457	5,775	2,297	4,308	4,605	8,940	685	1,925	4,568
Virginia.....	1,437	16,516	31,018	15,395	26,753	26,289	50,756	3,630	18,484	47,804
West Virginia.....	626	6,112	12,687	5,637	10,133	10,852	18,113	1,926	6,955	19,708
North Carolina.....	1,777	22,206	41,276	20,686	37,054	34,897	67,213	3,900	23,413	60,494
South Carolina.....	643	11,352	19,828	10,703	19,807	17,380	30,638	1,650	16,294	41,633
Georgia.....	1,388	20,233	35,100	18,945	33,805	30,469	58,783	3,178	26,885	67,603
Florida.....	314	7,092	14,378	6,602	12,873	12,273	21,924	1,589	9,563	27,875
East South Central.....	3,352	51,570	99,200	48,259	89,970	85,395	158,282	8,319	77,405	214,481
Kentucky.....	583	5,368	10,161	5,005	8,411	8,685	16,408	794	7,134	17,917
Tennessee.....	996	12,407	26,924	11,449	22,098	22,797	45,548	2,170	12,996	37,508
Alabama.....	1,101	20,658	36,754	19,479	36,050	31,954	56,728	3,626	33,798	89,913
Mississippi.....	672	13,136	25,361	12,325	23,410	21,958	39,596	1,727	23,477	69,143
West South Central.....	1,625	40,326	90,505	37,707	78,660	79,123	136,535	12,732	69,198	198,081
Arkansas.....	767	15,203	34,722	14,256	29,750	30,541	50,641	6,097	22,871	67,757
Louisiana.....	353	12,963	29,341	12,055	25,379	25,230	44,560	2,764	23,589	63,949
Oklahoma.....	73	899	2,126	818	1,751	1,816	3,164	( <sup>3</sup> )	755	1,997
Texas.....	432	11,260	24,315	10,577	21,778	21,534	38,168	3,629	21,983	64,378
Mountain.....	938	19,734	73,580	18,099	35,111	64,641	125,079	15,289	17,251	84,007
Montana.....	231	4,536	18,029	4,106	7,849	15,977	30,117	5,235	(D)	(D)
Idaho.....	228	8,675	34,870	8,001	15,611	31,118	63,611	4,751	(D)	(D)
Wyoming.....	80	740	2,321	692	1,321	2,068	3,592	( <sup>3</sup> )	689	2,656
Colorado.....	193	1,746	4,727	1,604	2,793	4,054	7,108	1,591	1,422	4,914
New Mexico.....	103	1,597	4,403	1,504	2,792	3,975	7,271	963	1,527	5,826
Arizona.....	42	1,936	7,643	1,739	3,890	6,491	10,472	2,290	2,088	10,289
Utah.....	55	363	944	323	602	787	1,504	(D)	(D)	(D)
Nevada.....	6	137	641	126	248	568	1,400	(D)	(D)	(D)
Pacific.....	2,923	101,316	429,777	92,163	169,659	370,442	748,681	56,068	97,265	651,149
Washington.....	722	24,049	95,013	22,007	38,435	82,262	163,029	12,018	28,857	189,946
Oregon.....	1,392	45,830	193,878	41,819	76,607	169,136	337,708	24,140	42,893	304,946
California.....	809	31,436	140,885	28,336	54,616	119,043	247,943	19,909	25,515	156,257
Millwork and related prod- ucts (S.I.C. Group 243), total.....	3,834	119,416	456,405	101,017	205,260	351,221	709,768	28,613	97,347	454,352
New England.....	259	4,974	16,516	4,202	8,808	12,561	24,374	1,000	4,484	16,291
Maine.....	28	934	3,005	860	2,012	2,577	4,342	( <sup>3</sup> )	503	1,786
New Hampshire.....	30	909	2,859	781	1,580	2,152	4,130	( <sup>3</sup> )	662	3,268
Vermont.....	14	1,071	2,699	972	1,967	2,232	4,115	( <sup>3</sup> )	1,104	3,546
Massachusetts.....	128	1,311	4,856	1,007	2,047	3,483	6,931	( <sup>3</sup> )	1,598	5,232
Rhode Island.....	8	228	883	176	343	583	1,214	( <sup>3</sup> )	197	719
Connecticut.....	51	519	2,214	404	856	1,532	3,640	( <sup>3</sup> )	420	1,740
Middle Atlantic.....	579	10,225	41,462	7,974	16,111	28,083	61,089	1,760	8,915	39,239
New York.....	307	5,488	22,461	4,308	8,531	15,015	31,873	873	4,144	19,354
New Jersey.....	112	1,482	6,177	1,115	2,266	4,109	9,739	( <sup>3</sup> )	1,474	7,112
Pennsylvania.....	160	3,254	12,824	2,550	5,313	8,958	19,476	529	3,297	12,773
East North Central.....	738	26,336	101,681	21,145	43,357	70,765	160,046	7,838	21,890	94,098
Ohio.....	111	3,137	12,954	2,414	4,684	8,063	22,257	731	3,140	15,028
Indiana.....	69	4,974	19,084	3,887	7,735	12,335	30,949	2,297	3,463	15,732
Illinois.....	247	5,292	22,969	3,992	7,793	15,199	33,095	1,581	4,278	19,664
Michigan.....	168	3,593	13,721	2,891	5,877	9,794	23,380	928	3,260	14,587
Wisconsin.....	143	9,339	32,951	7,959	17,267	25,372	50,365	2,299	7,749	29,087

See footnotes at end of table.



## MANUFACTURES--INDUSTRY STATISTICS

Table 2.—GENERAL STATISTICS FOR INDUSTRY GROUPS BY REGION AND STATES: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Industry group, region, and State <sup>1</sup>	1954								1947	
	Number of establish- ments	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
		Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
Millwork and related prod- ucts (S.I.C. Group 243)— Continued										
West North Central.....	323	11,039	42,347	8,590	17,329	30,003	62,808	1,767	9,644	40,465
Minnesota.....	100	3,511	15,366	2,840	5,558	11,122	25,844	917	2,895	12,230
Iowa.....	56	4,668	16,237	3,532	7,184	11,492	22,969	567	3,791	16,860
Missouri.....	82	1,441	5,672	1,105	2,293	3,871	7,161	31	1,674	7,065
Nebraska.....	24	517	1,818	392	809	1,229	2,271	31	342	1,101
Kansas.....	43	760	2,795	621	1,280	2,005	4,019	31	490	1,841
South Atlantic.....	470	14,854	39,297	12,977	27,231	29,672	58,688	2,100	13,038	45,935
Maryland.....	41	852	3,083	661	1,358	1,914	5,449	31	766	3,415
Virginia.....	46	1,873	5,500	1,597	3,333	3,925	7,866	31	1,432	5,291
West Virginia.....	13	261	699	230	482	590	926	31	178	510
North Carolina.....	105	4,187	9,882	3,799	7,805	8,028	15,249	31	3,553	12,096
South Carolina.....	46	2,388	5,226	2,154	4,370	4,129	8,545	31	2,885	11,516
Georgia.....	69	2,922	7,649	2,592	5,688	5,754	10,284	591	2,433	7,307
Florida.....	138	2,076	6,342	1,694	3,685	4,656	9,418	31	1,671	5,314
East South Central.....	169	5,885	17,315	5,018	10,496	12,625	29,253	812	4,553	18,954
Kentucky.....	30	1,245	4,474	974	1,855	2,865	6,407	31	1,184	6,645
Tennessee.....	50	1,047	3,203	893	1,803	2,194	4,541	31	1,086	4,227
Alabama.....	55	1,728	4,745	1,458	3,162	3,466	10,162	31	1,235	4,465
Mississippi.....	34	1,864	4,893	1,693	3,674	4,098	8,141	31	1,048	3,617
West South Central.....	347	6,434	19,259	5,382	11,314	14,342	28,425	1,556	6,802	24,514
Arkansas.....	30	639	1,491	584	1,112	1,236	2,263	31	634	1,663
Louisiana.....	65	1,445	4,353	1,162	2,467	3,013	6,251	31	1,856	6,533
Oklahoma.....	35	574	1,909	466	811	1,193	2,644	31	1,094	4,099
Texas.....	217	3,775	11,505	3,169	6,922	8,899	17,265	1,180	3,218	12,219
Mountain.....	140	2,208	8,750	1,926	3,813	7,185	13,179	31	2,103	8,526
Montana.....	14	441	1,653	392	699	1,348	2,965	31	(D)	(D)
Colorado.....	26	377	1,455	325	712	1,197	2,098	31	401	1,297
New Mexico.....	20	313	1,264	281	584	1,115	2,118	31	(D)	(D)
Arizona.....	23	399	1,566	328	638	1,216	2,473	31	(D)	(D)
Utah.....	22	191	775	159	319	576	978	31	275	1,125
Nevada.....	10	384	1,660	353	698	1,432	1,925	31	401	1,579
Pacific.....	809	37,458	169,774	33,799	66,799	145,982	271,901	11,225	25,918	166,330
Washington.....	164	12,545	55,079	11,453	21,419	48,600	79,569	2,662	12,388	81,076
Oregon.....	154	13,660	63,359	12,629	25,915	55,482	110,744	4,153	6,227	46,835
California.....	491	11,252	51,336	9,717	19,463	41,899	81,588	4,410	7,303	38,419
Wooden containers (S.I.C. Group 244), total.....	1,513	52,307	137,641	47,679	93,378	113,637	215,297	8,124	69,104	233,453
New England.....	168	4,147	11,387	3,718	7,459	9,277	15,842	538	6,979	26,552
Maine.....	29	645	1,602	598	1,204	1,400	2,370	31	1,639	5,516
New Hampshire.....	30	1,114	2,955	1,021	2,069	2,525	4,015	31	1,584	6,101
Vermont.....	7	323	745	307	634	663	998	31	(D)	(D)
Massachusetts.....	79	1,621	4,663	1,422	2,867	3,712	6,350	31	2,431	9,477
Connecticut.....	16	346	1,124	292	548	786	1,734	(D)	494	1,696
Middle Atlantic.....	285	5,592	16,518	4,937	9,977	12,984	25,842	1,102	8,110	29,788
New York.....	146	2,082	6,316	1,821	3,596	4,820	10,185	31	3,304	12,352
New Jersey.....	72	1,746	5,235	1,541	3,221	4,170	8,326	31	1,996	8,662
Pennsylvania.....	67	1,764	4,966	1,574	3,159	3,993	7,330	540	2,810	8,774
East North Central.....	353	8,667	25,985	7,703	15,176	20,673	37,654	1,163	12,186	50,893
Ohio.....	89	2,222	6,977	1,955	3,781	5,485	10,502	31	2,911	11,301
Indiana.....	39	1,063	2,988	953	1,826	2,355	4,587	31	1,295	4,718
Illinois.....	73	1,980	6,166	1,725	3,257	4,802	8,440	31	3,183	11,771
Michigan.....	89	1,482	4,536	1,323	2,723	3,704	6,391	31	2,212	13,544
Wisconsin.....	63	1,918	5,316	1,745	3,586	4,325	7,732	31	2,585	9,559
West North Central.....	101	2,397	6,677	2,171	4,412	5,424	11,072	31	2,831	9,340
Minnesota.....	30	782	2,461	713	1,404	1,987	3,689	31	845	3,069
Iowa.....	18	360	876	348	748	828	1,906	31	257	976
Missouri.....	32	764	2,084	679	1,442	1,606	3,367	31	1,365	4,155
Nebraska.....	8	225	576	196	355	440	918	31	(D)	(D)
Kansas.....	10	179	485	158	297	387	951	31	188	645
South Atlantic.....	202	12,288	26,618	11,583	22,862	22,731	41,347	1,200	15,896	41,630
Maryland.....	31	841	2,194	764	1,601	1,799	3,053	31	991	3,269
Virginia.....	41	2,142	4,827	2,018	3,898	4,051	6,553	31	2,488	6,653
West Virginia.....	9	154	474	142	290	353	726	(D)	(D)	(D)
North Carolina.....	22	1,813	3,853	1,696	3,314	3,389	5,940	31	3,079	8,657
South Carolina.....	19	918	1,814	865	1,722	1,571	2,889	31	1,478	2,327
Georgia.....	35	3,488	7,222	3,342	6,563	6,390	12,107	31	3,263	8,388
Florida.....	41	2,835	6,077	2,663	5,290	5,026	9,853	31	3,700	9,415

See footnotes at end of table.

## LUMBER AND WOOD PRODUCTS

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Table 2.—GENERAL STATISTICS FOR INDUSTRY GROUPS BY REGIONS AND STATES: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Industry group, region, and State <sup>1</sup>	1954								1947	
	Number of establish- ments	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
		Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
<b>Wooden containers (S.I.C. Group 244)—Continued</b>										
East South Central.....	95	6,729	14,649	6,163	11,360	12,112	28,698	1,359	9,410	24,082
Kentucky.....	11	775	2,749	647	1,232	2,060	3,780	( <sup>3</sup> )	2,291	7,914
Tennessee.....	25	1,656	4,212	1,492	2,855	3,271	10,122	763	3,102	5,546
Alabama.....	41	1,460	2,454	1,374	2,498	2,210	4,343	( <sup>3</sup> )	1,258	3,198
Mississippi.....	18	2,837	5,233	2,649	4,774	4,569	10,452	( <sup>3</sup> )	2,759	7,424
West South Central.....	87	6,351	13,610	5,891	11,754	11,413	19,668	687	7,797	21,886
Louisiana.....	21	1,567	3,237	1,407	2,668	2,594	4,988	( <sup>3</sup> )	2,632	7,477
Texas.....	46	2,325	4,855	2,214	4,531	4,034	7,400	( <sup>3</sup> )	2,859	7,559
Mountain.....	29	675	2,107	558	1,067	1,509	3,057	( <sup>3</sup> )	536	2,188
Idaho.....	8	158	321	149	250	277	537	( <sup>3</sup> )	102	336
Colorado.....	2	322	1,040	236	466	652	1,179	( <sup>3</sup> )	(D)	(D)
Arizona.....	2	156	666	137	293	503	1,145	( <sup>3</sup> )	(D)	(D)
Pacific.....	193	5,457	20,087	4,950	9,308	17,511	32,114	1,462	5,359	27,094
Washington.....	25	924	2,087	896	1,487	2,773	5,442	( <sup>3</sup> )	622	2,306
Oregon.....	28	979	3,571	915	1,778	3,230	5,478	( <sup>3</sup> )	1,300	5,859
California.....	140	3,493	13,238	3,138	6,042	11,507	21,193	1,094	3,437	18,929
<b>Miscellaneous wood products (S.I.C. Group 249), total..</b>	2,785	57,351	166,512	50,368	99,794	130,169	278,031	11,863	65,540	260,619
New England.....	395	9,948	26,717	8,824	17,725	21,791	41,834	1,596	11,233	35,507
Maine.....	107	5,099	12,274	4,731	9,539	10,617	18,033	761	5,117	13,944
New Hampshire.....	56	1,039	3,055	937	1,976	2,517	5,029	( <sup>3</sup> )	1,656	4,441
Vermont.....	57	1,006	2,606	913	1,905	2,220	3,869	( <sup>3</sup> )	(D)	(D)
Massachusetts.....	131	2,318	7,472	1,890	3,610	5,409	12,558	( <sup>3</sup> )	2,401	10,060
Connecticut.....	34	428	1,129	305	608	908	1,969	( <sup>3</sup> )	385	1,592
Middle Atlantic.....	620	8,717	26,193	7,658	15,352	20,322	43,746	2,248	9,582	38,037
New York.....	421	5,198	15,735	4,526	9,120	11,893	26,961	1,653	5,992	24,252
New Jersey.....	78	1,152	3,985	994	2,017	2,984	6,660	( <sup>3</sup> )	838	4,467
Pennsylvania.....	121	2,366	6,473	2,138	4,214	5,444	10,124	( <sup>3</sup> )	2,752	9,318
East North Central.....	542	11,116	36,541	9,526	18,905	27,281	58,811	1,958	14,568	62,319
Ohio.....	101	1,839	6,113	1,588	3,261	4,654	9,676	560	2,272	9,413
Indiana.....	69	1,609	4,736	1,408	2,775	3,657	7,992	( <sup>3</sup> )	1,713	5,667
Illinois.....	157	3,626	13,178	3,076	6,262	9,534	20,403	( <sup>3</sup> )	4,209	21,932
Michigan.....	132	2,836	9,151	2,419	4,574	6,857	14,717	602	4,672	18,216
Wisconsin.....	83	1,204	3,361	1,033	2,031	2,577	6,022	( <sup>3</sup> )	1,702	7,091
West North Central.....	148	2,927	8,926	2,542	5,081	7,033	15,185	( <sup>3</sup> )	3,283	13,427
Minnesota.....	40	908	3,051	801	1,595	2,491	5,878	( <sup>3</sup> )	1,478	6,499
Iowa.....	11	220	763	183	385	600	1,192	( <sup>3</sup> )	401	1,411
Missouri.....	84	1,436	3,855	1,249	2,362	2,959	6,487	( <sup>3</sup> )	1,232	4,691
South Atlantic.....	280	6,807	17,654	5,997	11,227	13,564	29,708	1,982	6,820	25,511
Maryland.....	24	511	1,619	454	879	1,200	3,066	( <sup>3</sup> )	457	1,651
Virginia.....	40	862	2,049	768	1,404	1,622	3,630	( <sup>3</sup> )	864	3,651
West Virginia.....	18	497	1,131	462	854	977	1,473	(D)	(D)	(D)
North Carolina.....	62	1,377	3,550	1,212	2,154	2,809	5,003	( <sup>3</sup> )	1,042	2,880
South Carolina.....	14	662	1,612	549	992	1,130	2,923	( <sup>3</sup> )	1,415	4,495
Georgia.....	59	1,729	4,489	1,528	2,876	3,371	8,023	527	1,398	5,168
Florida.....	59	1,028	2,755	903	1,842	2,115	4,661	691	792	4,625
East South Central.....	193	6,870	16,921	6,162	12,382	13,358	28,630	1,359	7,379	27,570
Kentucky.....	36	906	2,581	781	1,541	1,959	3,796	( <sup>3</sup> )	1,156	4,843
Tennessee.....	74	2,512	6,007	2,254	4,524	4,631	9,832	( <sup>3</sup> )	2,997	9,262
Alabama.....	44	1,629	3,977	1,491	2,984	3,329	7,257	( <sup>3</sup> )	1,140	3,666
Mississippi.....	39	1,821	4,355	1,635	3,331	3,437	7,744	( <sup>3</sup> )	2,086	9,799
West South Central.....	198	4,619	10,992	4,135	8,392	8,918	19,639	749	7,127	27,752
Arkansas.....	47	1,491	3,203	1,389	2,796	2,831	5,914	( <sup>3</sup> )	(D)	(D)
Louisiana.....	42	1,016	2,410	907	1,895	1,934	4,541	( <sup>3</sup> )	1,023	6,213
Oklahoma.....	21	352	844	291	579	630	1,386	( <sup>3</sup> )	(D)	(D)
Texas.....	88	1,759	4,535	1,547	3,120	3,523	7,796	( <sup>3</sup> )	2,634	11,832
Mountain.....	44	727	2,428	615	1,230	1,870	4,087	( <sup>3</sup> )	1,040	5,817
Montana.....	9	129	427	107	208	333	644	( <sup>3</sup> )	229	1,214
Idaho.....	12	159	575	137	243	430	868	( <sup>3</sup> )	228	1,040
Colorado.....	14	303	918	253	511	703	1,797	( <sup>3</sup> )	(D)	(D)

See footnotes at end of table.

## MANUFACTURES--INDUSTRY STATISTICS

Table 2.—GENERAL STATISTICS FOR INDUSTRY GROUPS BY REGIONS AND STATES: 1954 AND 1947—Continued

(For explanation of column captions see Introduction)

Industry group, region, and State <sup>1</sup>	1954								1947	
	Number of establish- ments	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
		Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
Miscellaneous wood products (S.I.C. Group 249)—Con.										
Pacific.....	365	5,615	20,138	4,905	9,497	16,028	36,388	1,452	4,508	24,679
Washington.....	50	833	3,264	712	1,328	2,563	5,998	( <sup>3</sup> )	1,167	6,130
Oregon.....	60	1,142	4,089	999	1,869	3,195	7,271	( <sup>3</sup> )	1,112	5,921
California.....	255	3,639	12,785	3,193	6,300	10,269	23,118	993	2,229	12,628

NOTE: Detailed figures may not add to the totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>Each producing state not shown separately has been withheld either (a) to avoid disclosing figures for individual companies; or (b) because the state had less than 100 employees in the industry group. Such state figures are included, however, in the appropriate regional and United States totals.<sup>2</sup>1954 Census coverage of establishments in Major Industry Group 24, "Lumber and Wood Products," was not comparable with 1947 coverage. In 1947, Logging Camps and Contractors (Industry 2411) were not included in the Census; in addition, only Sawmills and Planing Mills (Industry 2421) that produced more than 200,000 board feet of lumber were included. On the other hand, for 1954, all loggers and sawmills (with 1 or more paid employees as reported to the Bureau of Old-Age and Survivors Insurance) were included in the Census. In 1954, the loggers accounted for 11.7 percent of the employment in Major Industry Group 24, "Lumber and Wood Products", and it is estimated that sawmills and planing mills producing less than 200,000 board feet accounted for less than 2 percent of the total employment for the group. Employment and value added by manufacture by states and regions for 1954 and 1947 for the Wood Products Group, excluding Logging Camps and Contractors (Industry 2411), are shown in Table 2A of this chapter.<sup>3</sup>Less than \$500 thousand.<sup>4</sup>This industry sub-group consists of a single four-digit industry. Detailed data by state are included in the four-digit industry tables.



## LUMBER AND WOOD PRODUCTS

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Table 2A.—SELECTED STATISTICS FOR THE LUMBER AND WOOD PRODUCTS INDUSTRIES, GROUP 24, EXCLUDING LOGGING CAMPS AND CONTRACTORS, INDUSTRY, S.I.C. CODE 2411

Region and State	1954		1947	
	All employees average for the year)	Value added by manufacture	All employees (average for the year)	Value added by manufacture
Lumber and wood products, excluding logging camps and contractors, total <sup>1</sup> .....	570,426	2,798,506	641,799	2,520,402
New England.....	28,446	115,463	33,574	114,201
Maine.....	11,035	40,055	12,252	36,973
New Hampshire.....	5,081	19,411	6,459	22,488
Vermont.....	4,331	16,542	5,481	18,569
Massachusetts.....	5,951	28,514	7,460	28,475
Rhode Island.....	2,391	468	495	2,202
Connecticut.....	1,580	8,548	1,427	5,494
Middle Atlantic.....	35,869	173,892	37,335	142,888
New York.....	16,971	87,343	16,957	69,421
New Jersey.....	5,229	28,527	4,748	23,267
Pennsylvania.....	13,668	58,021	15,630	50,200
East North Central.....	62,184	327,706	66,485	273,872
Ohio.....	9,885	53,692	10,565	43,728
Indiana.....	10,742	59,001	9,224	36,425
Illinois.....	12,439	68,803	12,962	57,351
Michigan.....	12,377	64,770	16,817	72,254
Wisconsin.....	16,742	81,439	16,917	64,114
West North Central.....	21,481	110,048	21,054	78,517
Minnesota.....	6,394	39,711	6,718	25,707
Iowa.....	5,618	27,635	4,700	19,990
Missouri.....	6,423	28,906	7,180	24,087
South Dakota.....	823	3,198	994	3,506
Nebraska.....	1,057	4,597	501	1,439
Kansas.....	1,158	5,993	935	3,731
South Atlantic.....	120,464	387,774	139,700	383,814
Delaware.....	898	3,095	(D)	(D)
Maryland.....	4,663	20,509	4,139	12,903
District of Columbia.....	167	662	(D)	(D)
Virginia.....	21,395	68,808	23,258	63,399
West Virginia.....	7,026	21,240	7,979	22,497
North Carolina.....	29,585	93,406	31,087	84,127
South Carolina.....	15,321	44,998	22,072	59,971
Georgia.....	28,375	89,199	33,979	88,466
Florida.....	13,033	45,858	15,726	47,229
East South Central.....	71,056	244,865	98,747	285,087
Kentucky.....	8,296	30,393	11,765	37,319
Tennessee.....	17,624	70,045	20,181	56,543
Alabama.....	25,476	78,492	37,431	101,242
Mississippi.....	19,659	65,934	29,370	89,983
West South Central.....	57,732	204,268	90,924	72,233
Louisiana.....	16,992	60,342	29,100	84,172
Texas.....	19,121	70,631	30,694	95,988
Mountain.....	23,346	145,403	20,930	100,538
Montana.....	5,107	33,728	4,627	20,665
Wyoming.....	860	4,318	900	3,566
Colorado.....	2,751	12,185	2,282	8,106
Utah.....	592	2,639	(D)	(D)
Nevada.....	524	3,359	(D)	(D)
Pacific.....	149,849	1,089,085	133,050	869,252
Washington.....	38,413	254,040	43,034	279,458
Oregon.....	61,614	461,202	51,532	363,561
California.....	49,823	373,844	38,484	226,233

NOTE: Detailed figures may not add to the totals because of independent rounding. <sup>1</sup>Each producing state not shown separately has been withheld either (a) to avoid disclosing figures for individual companies; or (b) because the state had less than 100 employees in the industry group. Such state figures are included, however, in the appropriate regional and United States totals.

## MANUFACTURES--INDUSTRY STATISTICS

Table 3.--DETAILED STATISTICS FOR THE INDUSTRY GROUP: 1954

(For explanation of line captions see Introduction)

Item	Major industry group 24	Item	Major industry group 24
Number of establishments, total.....	41,484	Cost and quantity of purchased fuel and electricity--Con.	
With 1-19 employees.....	35,097	Electric energy:	
With 20-99 employees.....	5,255	Purchased:	
With 100 employees and over.....	1,132	Quantity.....million kwh..	3,218
All employees:		Cost.....\$1,000..	41,505
Number (average for year).....	645,936	Generated.....million kwh..	1,276
Payroll.....\$1,000..	1,933,523	Sold:	
Production workers:		Quantity.....do....	225
Number (average for year).....	581,920	Value.....\$1,000..	1,345
Man-hours.....1,000..	1,106,955		
Wages.....\$1,000..	1,604,859	Manufacturers' inventories:	
Value added by manufacture.....do....	3,188,409	Beginning of year, total.....do....	1,151,141
Value added by resales.....do....	64,727	Finished products.....do....	517,749
Number of employees for selected months:		Work-in-process.....do....	236,372
March.....	622,721	Materials, supplies, fuel, etc.....do....	397,017
May.....	648,812	End of year, total.....do....	1,142,920
August.....	645,094	Finished products.....do....	515,625
November.....	666,971	Work-in-process.....do....	226,966
Cost and quantity of purchased fuel and electricity:		Materials, supplies, fuel, etc.....do....	400,328
Fuels consumed, total cost.....\$1,000..	57,727	Expenditures for plant and equipment:	
Bituminous coal and anthracite:		Capital expenditures, new.....do....	217,361
Quantity.....1,000 short tons..	847	New structures and additions to plant.....do....	59,023
Value.....\$1,000..	8,022	New machinery and equipment.....do....	158,338
Coke:		Expenditures for used plant and equipment.....do....	19,424
Quantity.....1,000 short tons..	9		
Value.....\$1,000..	146	Horsepower rating of power equipment at end of 1954:	
Fuel oil:		Total horsepower of prime movers and electric	
Quantity.....1,000 barrels..	4,060	motors driven by purchased energy.....1,000 hp..	5,151
Value.....\$1,000..	17,324	Engines, etc., driving electric generators....do....	991
Gas:		Engines, etc., not driving electric	
Quantity.....million cubic feet..	20,475	generators.....do....	1,462
Value.....\$1,000..	5,150	Electric motors driven by purchased energy....do....	2,698
Other fuels:		Electric motors driven by energy generated at the	
Value.....do....	27,085	establishment.....do....	542

Note: Detailed figures may not add to totals because of independent rounding.

## Lumber and Timber Basic Products

This report shows 1954 Census of Manufactures statistics for establishments classified in each of the following industries:

Code	Title
2411--	Logging Camps and Logging Contractors
2421--	Sawmills and Planing Mills
2422--	Veneer Mills
2423--	Shingle Mills
2424--	Cooperage Stock Mills
2425--	Excelsior Mills

A very high degree of specialization in the production of items classified as primary to these industries characterizes the manufacturing activity of plants in this group of industries. Moreover, only a small fraction of the total shipments of products primary to these industries is shipped by other industries. However, the shipment data exclude a significant amount of logging, veneer and cooperage stock produced by establishments classified in other industries which use the products as materials for further fabrication into other end products at the same location. For example, plywood plants (Industry 2432) are also engaged to a large extent in producing veneer. Also, but to a lesser degree, plants making wooden boxes (Industry Group 244) and furniture (Major Group 25) produce their own veneer and lumber, and cooperage plants (Industry 2445) make their own cooperage stock.

### 2411--Logging Camps and Logging Contractors

This industry comprises logging camps and logging contractors engaged in cutting timber and in producing logs, bolts, crotches, burls, stumps, pulpwood, poles, posts, hewn ties, mine timbers, forest-cut fuel wood, wood for chemical distillation, hewn or rough shaped lasts, shuttles, and similar blocks or blanks, and other rough, hewn or riven primary forest or wood raw materials. Independent contractors engaged in estimating, driving, booming, towing, or trucking timber, but who perform no cutting operations, are classified in non-manufacturing industries.

Logging and wood operations conducted in combination with sawmills, pulp mills, or other converting establishments, and not separately reported, are classified with the converting establishments: namely, with sawmills and planing mills in Industry 2421, with veneer mills in Industry 2422, with pulp mills in Industry 2611, or with charcoal and wood distillation plants in Industries 2861 and 2862. Establishments primarily engaged in the collection of bark, sap, gum and other forest byproducts are classified in nonmanufacturing industries.

Logging camps and logging contractors were excluded from the 1947 Census, therefore, no comparative data for 1954 are available.

Although no separate data were presented for Industry 2411 in 1947, logging operations are represented in the 1947 general statistics for Major Group 24 industries, to the extent that these operations were reported as performed in conjunction with sawmilling and other primary manufacturing of basic timber products. Shipments of logs, bolts, and pulpwood (products primary to Industry 2411) were reported by such integrated establishments as secondary products in 1947 (for example, the \$38 million logs shipped in 1947 by Industry 2421, Sawmills and Planing Mills).

In the 1954 Census, report forms were mailed to all establishments identified as loggers on BOASI records. Since this canvass included all establishments identified as loggers employing one or more workers and for whom a separate Social Security account was maintained, the only logging operations excluded were those conducted by farmers and other owner-operators. In 1954 as in 1947, logging operations carried on by sawmills and other primary converters as an integral part of their manufacturing activity were reported as part of the converting establishment. For a list of primary products of Industry 2411 in 1954, refer to Table 6A, product codes 2411011 to 2411098.

The value of shipments of Industry 2411, Logging Camps and Logging Contractors, in 1954 totaled \$733 million. This included shipments of primary products (logs, bolts, pulpwood, poles, and other rough, round or hewn wood) valued at \$525 million, shipments of secondary products valued at \$12 million, and miscellaneous receipts (mainly contract and custom logging) of \$196 million. Receipts for merchandising (products bought and sold without further processing) valued at \$41 million are excluded from the \$733 million shipments of Industry 2411. Data relating to these merchandising receipts are also excluded from the cost of materials and value added by manufacture but are included in other detailed industry statistics, mainly employment and inventory (see Table 3).

Industry 2411 shipments of logs, bolts, pulpwood, etc. (primary products) in 1954 represented 98 percent of its total product shipments (primary and secondary). Secondary products shipped by this industry in 1954 consisted mainly of rough lumber and sawed ties, \$9 million. The widespread use of fee-type and other contractual arrangements for the cutting of standing timber accounts for the relatively high ratio of miscellaneous receipts to total receipts for Industry 2411, (27 percent in 1954).

Industry 2411 shipments of primary products in 1954 represented 89 percent of these products, valued at \$591 million, shipped by all industries. The only other industry shipping any sizable volume of logs, bolts, pulpwood, etc., in 1954 was Industry 2421, Sawmills and Planing Mills, \$60 million. On the basis of logging output, the coverage of Industry 2411 is less than that for shipments because of the captive production of establishments consuming the logs in further fabricated products.

### 2421--Sawmills and Planing Mills (Full Standard Industrial Classification Title: Sawmills and Planing Mills, General)

This industry comprises establishments primarily engaged in sawing rough lumber and timbers from logs and bolts, or resawing cants, flitches, or lumber into smaller dimensions; planing mills combined with sawmills; and separately operated planing mills which are engaged primarily in producing surfaced lumber and standard workings or patterns of lumber. Industry 2421 also includes establishments primarily engaged in sawing lath, railroad ties, and box shook from logs or bolts, and establishments primarily engaged in the kiln-drying of lumber. Establishments primarily engaged in manufacturing box shook or boxes from purchased lumber are classified in Industry 2444, Wooden Boxes (Except Cigar Boxes); and sash, doors, window and door frames, and other fabricated millwork from purchased lumber in Industry 2431, Millwork Plants. Logging camps combined with sawmills, when not separately reported, are included in Industry 2421. In the 1954 Census, as in 1947, SIC Industry 2429, Special-Product Sawmills, Not Elsewhere Classified, is combined with Industry 2421. For a detailed list of primary products of Industry 2421, refer to Table 6A, product codes 2421111 to 2421859.

Special enumerating and reporting techniques were used for the lumber industry in 1954 to provide as complete coverage as possible. With BOASI records forming the basis for the mailing list, report forms were mailed to all sawmills which had a Social Security account. Because there are many thousands of portable mills in the East with no fixed address, a field canvass of sample area segments was made in 36 States to supplement the mail canvass. This area segment sample provided an estimate of lumber production and stocks for these small operators as well as for establishments classified in industries in which specific provision was not made on the Census form for reporting such data. Consequently, it is believed that the data presented for 1954 provide complete coverage of lumber production and stocks, and the 1954 production and stocks data can be considered to be comparable with 1947.

The 1954 report required from the smaller mills in the mail canvass provided only selected general statistics (employment, cost of materials, value of shipments, etc.). For mills with six or more employees, a more detailed report was obtained covering such additional items as man-hours, number of production workers and inventories by type-finished goods, etc. For 1947,



the reporting requirements were based on the size of mills as determined by the quantity of lumber produced: mills producing more than 1,000,000 feet were required to report the full set of detailed statistics; mills producing from 200,000 feet to 1,000,000 feet of lumber, board measure, filed only selected general statistics similar to the smaller mills in the mail canvass for 1954 and any mill producing less than 200,000 feet of lumber was asked to report only its production and stocks.

General statistics (employment, cost of materials, value of shipments, etc.) were obtained from approximately the same number of mills in 1954 as in 1947, with 19,778 establishments reporting such information in 1954 and 19,049 establishments in 1947. However, due to the different cut-off for inclusion of sawmills in the two Censuses, the establishment counts are not strictly comparable. Also, the comparability of the 1954 establishment size data shown in Table 4 with those published for 1947 is also apparently affected for the smaller size groupings.

The general statistics in Table 1 through 4 cannot be related directly to the lumber production information shown in Table 6C, since the latter table includes the production of all sawmills, i.e. for the more than 28,000 sawmills for which estimates were provided from the area sample as well as those for which reports were received in the mail canvass.

In 1954, species data were reported directly by sawmills on the forms mailed to all establishments maintaining a Social Security account. In those few cases where operators failed to provide a species breakdown, the reported total of lumber sawed was apportioned among the species according to the pattern reflected in existing Census records for the specific area involved. In the case of the small mills reached in the supplementary field canvass by area sampling, species distributions were obtained by the enumerator at the time of his visit. In 1947, species data were secured and reviewed by field enumerators from sawmills operated in all States other than the West; mills in the West reported their species detail by mail. For a number of small mills the enumerators estimated the species distribution on the basis of the best information available locally. Comparability of the species data as between 1947 and 1954 are not thought to be affected significantly by these changes in reporting and estimating techniques.

The value of shipments of Industry 2421 totaled \$3,247 million. This included shipments of primary products (lumber and other sawmill and planing mill products) valued at \$3,072 million, shipments of secondary products valued at \$87 million, and miscellaneous receipts (mainly contract work on materials owned by others) of \$88 million. Primary products consisted of sawmill and planing mill products, \$2,976 million; logs, \$60 million; and box shooks from own lumber, \$36 million.

Industry 2421 shipments of lumber and other sawmill and planing mill products (primary products) in 1954 represented 97 percent of its total product shipments (primary and secondary). There is no comparable specialization ratio for 1947. Secondary products shipped by Industry 2421 in 1954 consisted mainly of the following product classes: interior trim and moldings and door frames, \$7 million, and softwood plywood, \$7 million. The relatively large proportion of miscellaneous receipts in 1954 (3 percent of total receipts) is due mainly to contractual activities associated with sawmill and planing mill operations such as logging, custom-sawing of logs and lumber, and kiln-drying of lumber.

Industry 2421 shipments of primary products (including logs and box shook) in 1954 represented 81 percent of these products valued at \$3,777 million shipped by all industries. The coverage ratio for 1947 is not available, since the data were not retabulated to treat logs and box shook on a comparable basis. Production of sawmill and planing mill products, except logs and box shook, is scattered through many manufacturing industries (principally in Major Group 24, but no single industry accounted for a significant percentage. Excluding logs and box shook, Industry 2421 accounted for 98 percent of its primary products shipped by all industries. It accounted for 10 percent of the total logs shipped by all industries. In the case of box shook, which is considered primary to Industry 2421 and 2444, the shipments of box shook by Industry 2421 establishments in 1954 constituted 24 percent of all box shook shipments; establishments in Industry 2444 accounted for 73 percent of all box shook shipments in 1954. Other industries shipping sawmill and planing mill products consisted mainly of Industry 2431, Millwork Plants, \$17 million and Industry 2432, Plywood Plants, \$12 million.

#### 2422--Veneer Mills

This industry comprises establishments primarily engaged in producing all types and grades of veneer including technical, fancy, flat, plywood, and container types. Establishments primarily engaged in the production of veneer which is used in the same establishment for the manufacture of other end products are classified in the end product industries, such as Industry 2432 (Plywood Plants), Industry 2441 (Fruit and Vegetable Baskets), Industry 2444 (Wooden Boxes, Except Cigar Boxes), and Industry 2443 (Cigar Boxes). For a detailed list of primary products of Industry 2422, refer to Table 6A, product codes 2422111 to 2422231.

The value of shipments of Industry 2422 in 1954 totaled \$121 million. This included shipments of primary products (veneer) valued at \$110 million, shipments of secondary products valued at \$8 million, and miscellaneous receipts (mainly contract work on materials owned by others) of \$3 million.

Industry 2422 shipments of veneer in 1954 represented 93 percent of its total product shipments (primary and secondary). In 1947, this primary product specialization ratio was 92 percent. Secondary products shipped by Industry 2422 in 1954 consisted mainly of sawmill and planing mill products, \$3 million, and hardwood plywood, \$3 million.

Industry 2422 shipments of veneer in 1954 represented 88 percent of the veneer, valued at \$124 million, shipped by all industries. This coverage ratio in 1947 was 83 percent. Other industries shipping veneer in 1954 consisted almost entirely of Industry 2432, Plywood Plants, \$9 million, and Industry 2421, Sawmills and Planing Mills, \$5 million.

Veneer is produced in significant volume by establishments using it in the output of such products as plywood, boxes and baskets. This production does not appear in the product table for this group of industries, but some measure of its importance can be gained from Table 7 shown for the plywood and wooden container industries.

#### 2423--Shingle Mills

This industry comprises establishments primarily engaged in producing wood shingles, including shake operations. For a list of products of this industry, refer to Table 6A, product codes 2423011 to 2423051.

The value of shipments of Industry 2423 in 1954 totaled \$34 million. This included shipments of primary products (shingles and shakes) valued at \$32 million, shipments of secondary products valued at \$1 million, and a negligible amount of miscellaneous receipts.

Industry 2423 shipments of shingles and shakes in 1954 represented 97 percent of its total product shipments (primary and secondary). In 1947, this primary product specialization ratio was 100 percent.

Industry 2423 shipments of shingles and shakes in 1954 represented 90 percent of the shingles, valued at \$36 million, shipped by all industries. This coverage ratio in 1947 was 86 percent. Other industries shipping shingles and shakes in 1954 consisted mainly of Industry 2421, Sawmills and Planing Mills, \$2 million.

#### 2424--Cooperage Stock Mills

This industry comprises establishments primarily engaged in producing cooperage stock, including staves, heading, and hoops for tight or slack cooperage, whether produced by sawing or splitting. Establishments primarily engaged in manufacturing barrels and other coopered products from stock produced in the same establishment are classified in Industry 2445, Cooperage. For a detailed list of products of Industry 2424, refer to Table 6A, product codes 2424011 to 2424071.

Establishments which merely finish rough staves and headings received from affiliated stave and heading mills are also classified in Industry 2424. The resulting duplication in the value of shipments reported for this industry is slight and the general statistics for this industry are not believed to be affected to any significant extent.

The value of shipments of Industry 2424 in 1954 totaled \$26 million. This included shipments of primary products (cooperage stock) valued at \$25 million, shipments of secondary products valued at \$1 million, and a negligible amount of miscellaneous receipts.

Industry 2424 shipments of cooperage stock in 1954 represented 96 percent of its total product shipments (primary and secondary). In 1947, this primary product specialization ratio was also 96 percent. Secondary products shipped by Industry 2424 in 1954 consisted mainly of rough lumber.

Industry 2424 shipments of cooperage stock in 1954 represented 93 percent of the cooperage stock, valued at \$27 million, shipped by all industries. This coverage ratio in 1947 was 92 percent. No other industry shipped a significant volume of cooperage stock in 1954.

#### 2425--Excelsior Mills

This industry comprises establishments primarily engaged in manufacturing excelsior, wood-wool, and excelsior pads and wrappers. For a list of products of this industry, refer to Table 6A, product codes 2425011 to 2425098.

Value of shipments of Industry 2425 in 1954 totaled \$12 million. This included shipments of primary products (excelsior and excelsior products) valued at \$10 million, shipments of secondary products valued at \$1 million, and miscellaneous receipts valued in excess of \$1 million. Miscellaneous receipts for this industry may be somewhat overstated. (See footnote 4 Table 5A.)

Industry 2425 shipments of excelsior and excelsior products in 1954 represented 96 percent of its total product shipments (primary and secondary). In 1947, this primary product specialization ratio was 100 percent.

Industry 2425 shipments of excelsior and excelsior products in 1954 represented 93 percent of the excelsior and excelsior products, valued at \$11 million, shipped by all industries. This coverage ratio in 1947 was 97 percent.

The general statistics (employment, payrolls, value of shipments, cost of materials, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products, and, for that matter, their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (Tables 1-4) with product statistics (Table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in Table 5A which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry made as secondary products by establishments classified in other industries.

## MANUFACTURES—INDUSTRY STATISTICS

Table 1.—GENERAL STATISTICS FOR THE UNITED STATES: 1954 AND EARLIER YEARS

(For explanation of column captions see Introduction)

Industry and census year	Establishments, number	All employees		Production workers		Value added by manufacture <sup>2</sup> (\$1,000)	Cost of materials, etc. <sup>3</sup> (\$1,000)	Value of shipments <sup>4</sup> (\$1,000)
		Number <sup>1</sup>	Payroll (\$1,000)	Number <sup>1</sup>	Wages (\$1,000)			
Logging camps and contractor (S.I.C. 2411):								
1954.....	12,865	75,510	210,625	68,171	182,295	389,928	343,525	733,417
1953 <sup>5</sup> .....	(NA)	80,930	232,706	75,992	218,083	452,670	305,491	758,161
1952 <sup>5</sup> .....	(NA)	73,863	207,915	70,953	195,088	384,063	292,125	676,188
1951 <sup>5</sup> .....	(NA)	78,797	211,624	75,185	197,423	366,145	259,382	625,527
Sawmills and planing mills (S.I.C. 2421):								
1954 <sup>6</sup> .....	19,778	321,199	906,847	296,070	781,760	1,502,911	1,744,005	3,247,200
1953 <sup>5</sup> <sup>7</sup> .....	(NA)	379,275	1,023,193	351,904	916,938	1,721,947	1,865,552	3,587,499
1952 <sup>5</sup> <sup>7</sup> .....	(NA)	414,911	1,052,686	389,918	934,240	1,804,908	1,790,548	3,595,456
1951 <sup>5</sup> <sup>7</sup> .....	(NA)	423,999	996,284	398,165	879,948	1,825,152	1,745,224	3,570,376
1950 <sup>5</sup> <sup>7</sup> .....	(NA)	458,546	962,125	430,962	860,705	1,829,858	1,691,863	3,521,721
1949 <sup>5</sup> <sup>7</sup> .....	(NA)	378,437	761,012	356,552	677,082	1,276,177	1,203,712	2,479,889
1947 <sup>6</sup> .....	19,049	383,449	752,522	366,551	689,266	1,487,969	1,031,484	2,519,455
1939 <sup>8</sup> .....	7,320	(NA)	(NA)	248,274	201,902	395,691	301,646	697,337
Veneer mills (S.I.C. 2422):								
1954.....	261	12,825	35,453	11,796	28,464	59,250	61,468	120,718
1953 <sup>5</sup> .....	(NA)	14,291	39,432	13,080	30,642	62,292	63,759	126,051
1952 <sup>5</sup> .....	(NA)	10,404	27,346	9,551	21,764	48,886	46,061	94,947
1951 <sup>5</sup> .....	(NA)	10,399	27,130	9,498	22,091	44,832	44,080	88,912
1947.....	156	10,461	20,441	9,722	17,248	36,858	30,565	67,423
1939 <sup>8</sup> .....	139	(NA)	(NA)	7,784	5,033	11,873	8,769	20,642
Shingle mills (S.I. C. 2423):								
1954 <sup>7</sup> .....	175	2,532	9,367	2,339	7,970	15,451	18,183	33,632
1947.....	184	2,446	7,321	2,446	7,321	15,465	10,789	26,254
1939 <sup>8</sup> .....	226	(NA)	(NA)	3,762	4,814	7,038	6,265	13,303
Cooperage stock mills (S.I.C. 2424):								
1954.....	205	3,368	6,521	3,188	5,793	10,843	15,486	26,330
1950.....	(NA)	7,043	14,163	6,639	12,753	20,490	28,110	48,600
1949.....	(NA)	7,432	11,964	6,939	10,520	16,302	26,836	43,138
1947.....	250	12,291	20,253	11,739	17,984	27,191	27,941	55,132
1939 <sup>8</sup> .....	320	(NA)	(NA)	8,464	4,514	9,012	6,478	15,490
Excelsior mills (S.I.C. 2425):								
1954.....	68	1,424	4,150	1,290	3,547	6,928	5,138	12,066
1949.....	(NA)	1,175	2,814	1,100	2,494	4,048	4,051	8,099
1947.....	56	1,161	2,579	1,085	2,319	4,495	3,013	7,508
1939.....	53	1,045	913	925	700	1,606	1,381	2,987
1937.....	52	1,037	892	960	730	1,698	1,335	3,033
1935.....	48	908	675	831	532	1,413	1,031	2,444
1933.....	50	878	540	809	432	1,231	863	2,094
1931.....	61	(NA)	(NA)	927	683	1,571	1,412	2,983
1929.....	66	1,337	1,491	1,241	1,219	2,569	2,440	5,009
1927.....	64	1,391	1,494	1,272	1,181	2,274	2,547	4,821
1925.....	72	1,430	1,520	1,300	1,180	2,328	2,573	4,901
1923.....	75	1,416	1,519	1,285	1,206	2,596	2,766	5,362
1921.....	79	1,200	1,217	1,087	978	1,458	2,755	4,213
1919.....	95	1,410	1,471	1,242	1,145	2,391	2,522	4,913
1914.....	99	1,312	733	1,177	558	1,112	1,403	2,515
1909 <sup>9</sup> .....	109	(NA)	(NA)	1,003	397	849	816	1,665

NA Not available.

<sup>1</sup>For the period 1949-1954, figures are based on employment for the payroll periods ended nearest the 15th of March, May, August and November. For 1947, they represent the average of 12 monthly figures. For earlier years, the production worker average was calculated as in 1947, but the figure for all employees represents the sum of the annual average number of production workers and the number of nonproduction workers reported for one payroll period (usually in October).

<sup>2</sup>Value of products less cost of materials, supplies, fuel, electric energy and contract work. See Introduction, "Value Added by Manufacture."

<sup>3</sup>Figures for years prior to 1935 do not include cost of contract work.

<sup>4</sup>For 1929 and 1947-1954, value of shipments; for all other years, value of production. See Introduction, "Value of Shipments."

<sup>5</sup>The figures for 1949-1953 represent estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period. Estimates with a standard error in excess of 15 percent generally have been omitted from this table.

<sup>6</sup>See text for Industry 2421 for explanation of differences in coverage for these years.

<sup>7</sup>Data for "Shingle mills" (Industry 2423) included with Industry 2421 for 1949-1953.

<sup>8</sup>No comparable figures are available for earlier years.

<sup>9</sup>Prior to 1909, "Excelsior mills" was combined with "Artificial leather."



## LUMBER AND TIMBER BASIC PRODUCTS

24A-5

Table 2.—GENERAL STATISTICS BY REGIONS AND STATES: 1954 AND 1947  
(For explanation of column captions see Introduction)

Industry, region, and State <sup>1</sup>	1954										1947		
	Establishments, number		All employees		Production workers			Value added by manufacture	Cost of materials, etc.	Value of shipments	Capital expenditures, new	All employees, number	Value added by manufacture
	Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)		(\$1,000)
Logging camps and contractors (S.I.C. 2411), total.....	12,865	549	75,510	210,625	68,171	115,575	182,295	389,928	343,525	733,417	48,632		
New England.....	1,527	56	8,313	20,091	7,283	14,634	17,270	30,427	30,197	60,623	3,273		
Maine.....	1,152	47	6,587	15,645	5,845	11,758	13,789	23,415	21,886	45,299	2,458		
New Hampshire.....	206	7	1,156	3,189	950	2,022	2,464	5,067	6,894	11,961	608		
Vermont.....	131	2	489	1,093	419	737	873	1,691	1,194	2,885	173		
Middle Atlantic.....	406	14	1,714	4,034	1,524	2,880	3,559	7,467	5,605	13,065	748		
New York.....	181	8	901	2,663	806	1,661	2,325	5,116	3,999	9,116	430		
Pennsylvania.....	205	6	757	1,265	672	1,127	1,145	2,119	1,400	3,512	299		
East North Central.....	930	23	3,836	7,521	3,528	5,661	6,911	13,170	8,529	21,698	1,522		
Ohio.....	49	...	114	187	100	171	163	295	278	573	60		
Michigan.....	532	19	2,390	4,530	2,214	3,489	4,218	8,404	5,114	13,519	981		
Wisconsin.....	306	4	1,228	2,607	1,118	1,852	2,343	4,175	2,806	6,981	421		
West North Central.....	443	20	2,446	5,039	2,277	3,387	4,374	7,777	5,650	13,427	1,126		
Minnesota.....	379	18	2,191	4,540	2,046	3,040	3,986	7,107	4,974	12,081	985		
South Atlantic.....	2,919	55	14,638	24,083	12,898	21,238	21,226	43,534	28,615	72,123	5,052		
Delaware.....	18	1	102	144	86	132	133	370	454	825	35		
Maryland.....	56	1	191	308	162	257	275	671	360	1,032	74		
Virginia.....	308	8	1,372	2,118	1,212	1,914	1,888	3,839	2,188	6,028	399		
West Virginia.....	209	4	794	1,190	696	1,072	1,078	1,920	1,259	3,179	250	(NA)	(NA)
North Carolina.....	519	10	2,486	3,766	2,209	3,547	3,326	6,694	4,579	11,273	1,114		
South Carolina.....	535	10	2,736	4,069	2,412	3,829	3,510	6,697	4,714	11,415	804		
Georgia.....	804	11	3,954	6,081	3,411	5,586	5,281	12,331	8,378	20,685	1,282		
Florida.....	470	10	3,000	6,406	2,707	4,897	5,731	11,008	6,678	17,688	1,091		
East South Central.....	1,074	22	5,234	7,680	4,629	7,287	6,691	14,960	16,982	31,936	1,716		
Kentucky.....	66	...	278	398	242	363	340	624	533	1,158	91		
Tennessee.....	88	2	392	654	335	565	516	943	4,312	5,257	209		
Alabama.....	598	10	2,910	4,094	2,576	3,977	3,609	8,137	6,602	14,733	894		
Mississippi.....	322	10	1,653	2,534	1,474	2,381	2,224	5,255	5,532	10,787	521		
West South Central.....	1,053	43	6,202	10,291	5,605	9,434	9,141	19,617	17,617	37,234	1,798		
Louisiana.....	451	18	2,505	4,076	2,237	3,741	3,607	7,948	6,725	14,674	725		
Texas.....	259	8	1,618	2,888	1,450	2,428	2,486	5,737	5,627	11,364	384		
Mountain.....	467	36	4,072	15,592	3,746	6,568	13,468	26,690	20,080	46,770	3,522		
Montana.....	139	15	1,085	3,754	1,029	1,745	3,428	7,023	3,967	10,991	1,390		
Colorado.....	38	1	161	356	139	225	292	774	461	1,236	141		
Pacific.....	4,046	280	29,050	116,290	26,678	44,482	99,651	226,284	210,249	436,533	29,871		
Washington.....	1,119	86	9,116	35,308	8,259	12,943	29,765	65,620	80,674	146,295	7,736		
Oregon.....	2,225	128	14,021	56,261	12,965	21,395	48,878	112,470	93,251	205,722	14,764		
California.....	702	66	5,912	24,721	5,452	10,143	21,008	48,192	36,322	84,515	7,370		
Sawmills and planing mills (S.I.C. 2421), total.....	19,778	3,180	321,199	906,847	296,070	558,428	781,760	1,502,911	1,744,005	3,247,200	115,533	383,449	1,487,969
New England.....	1,178	111	9,094	21,543	8,261	16,360	18,604	31,792	38,613	70,541	3,067	10,697	35,295
Maine.....	505	60	4,293	10,065	3,931	7,823	8,821	15,110	17,208	32,318	1,494	4,974	(D)
New Hampshire.....	275	17	1,816	4,052	1,636	3,075	3,415	4,853	9,755	14,609	841	2,475	8,468
Vermont.....	209	28	1,930	4,529	1,742	3,593	3,912	7,560	7,155	14,851	405	2,075	(D)
Middle Atlantic.....	1,461	104	10,939	27,362	9,787	19,231	23,342	41,740	39,650	81,402	3,128	10,360	33,259
New York.....	404	47	3,901	11,201	3,507	7,523	9,541	17,113	19,425	36,541	(D)	3,451	(D)
New Jersey.....	58	6	831	2,599	709	1,342	2,146	3,758	3,411	7,170	(D)	266	(D)
Pennsylvania.....	999	51	6,207	13,561	5,569	10,365	11,653	20,867	16,813	37,690	1,800	6,643	19,130
East North Central.....	1,672	115	13,005	34,206	11,668	22,594	28,315	52,709	49,322	101,880	3,244	15,053	54,256
Ohio.....	489	14	2,490	6,149	2,206	4,085	5,033	9,967	8,165	17,986	660	2,012	6,977
Indiana.....	301	18	1,780	3,924	1,581	2,895	3,294	6,326	4,374	10,696	375	1,725	5,339
Illinois.....	197	10	1,237	3,069	1,140	2,234	2,586	5,405	4,993	10,398	349	1,057	(D)
Michigan.....	365	41	4,051	11,856	3,629	7,274	9,823	17,899	18,353	36,252	990	6,127	(D)
Wisconsin.....	320	32	3,446	9,206	3,109	6,104	7,578	13,110	13,437	26,547	868	4,132	15,522
West North Central.....	759	31	4,554	11,158	4,131	7,799	9,319	19,027	18,877	37,904	968	4,445	12,973
Iowa.....	99	...	332	719	287	528	572	1,273	818	2,092	(D)	251	743
Missouri.....	337	17	2,294	5,743	2,076	3,989	4,657	10,379	10,714	21,094	400	2,083	5,939
South Atlantic.....	6,254	904	80,298	147,700	74,955	134,549	126,470	236,872	305,475	542,437	15,282	99,083	257,914
Maryland.....	207	32	2,339	5,475	2,183	4,098	4,339	8,541	11,681	20,222	657	1,836	(D)
Virginia.....	1,391	149	15,361	28,152	14,341	24,725	24,020	45,567	56,380	101,926	3,331	17,901	45,958
West Virginia.....	614	56	5,834	12,088	5,384	9,723	10,367	17,304	14,726	32,042	1,878	6,664	18,697
North Carolina.....	1,712	215	19,650	35,535	18,284	32,356	30,151	58,839	75,876	134,816	3,554	22,226	56,653
South Carolina.....	622	114	10,518	18,337	9,919	18,422	16,114	28,451	37,011	65,463	1,566	15,090	39,049
Georgia.....	1,369	249	19,368	33,343	18,134	32,181	29,010	55,927	83,372	139,299	2,709	25,826	65,157
Florida.....	303	83	6,700	13,679	6,220	12,130	11,623	20,657	24,819	45,476	1,542	9,124	26,935

See footnotes at end of table.

## MANUFACTURES—INDUSTRY STATISTICS

Table 2.—GENERAL STATISTICS BY REGIONS AND STATES: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Industry, region, and State <sup>1</sup>	1954										1947		
	Establishments, number		All employees		Production workers			Value added by manufacture	Cost of materials, etc.	Value of shipments	Capital expenditures, new	All employees, number	Value added by manufacture
	Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)		(\$1,000)
Sawmills and planing mills, etc.—Con.													
East South Central.....	3,249	515	48,012	91,415	44,918	83,585	78,775	146,459	195,635	342,237	8,041	68,657	192,147
Kentucky.....	555	50	4,586	8,201	4,289	7,202	7,189	13,023	13,223	26,238	740	5,539	12,751
Tennessee.....	971	96	11,791	25,479	10,890	21,059	21,620	43,438	54,255	97,394	2,080	10,276	30,121
Alabama.....	1,070	223	19,398	34,326	18,277	33,797	29,807	53,046	74,499	127,997	3,542	31,394	84,353
Mississippi.....	653	146	12,237	23,408	11,461	21,525	20,157	36,951	53,655	90,607	1,678	21,448	64,925
West South Central.....	1,569	348	38,701	87,511	36,174	75,972	76,500	132,064	145,360	277,425	12,641	64,472	188,139
Arkansas.....	729	122	14,482	33,385	13,572	28,546	29,361	48,714	59,813	108,527	6,056	20,561	62,782
Louisiana.....	341	126	12,376	28,242	11,507	24,373	24,284	42,789	42,179	84,970	2,738	21,667	59,588
Oklahoma.....	73	8	899	2,126	818	1,751	1,816	3,164	3,146	6,311	241	755	1,997
Texas.....	426	92	10,943	23,757	10,276	21,300	21,038	37,395	40,220	77,616	3,605	21,489	63,772
Mountain.....	927	182	19,615	73,230	17,990	34,984	64,327	124,393	132,961	257,354	15,224	17,117	83,525
Idaho.....	224	67	8,616	34,657	7,944	15,523	30,911	63,190	69,673	132,863	(D)	7,150	41,528
Wyoming.....	80	8	740	2,321	692	1,321	2,068	3,592	2,027	5,619	253	689	2,656
Colorado.....	193	19	1,746	4,727	1,604	2,793	4,054	7,108	5,988	13,097	1,591	(D)	(D)
New Mexico.....	103	21	1,597	4,403	1,504	2,792	3,975	7,271	9,227	16,498	963	1,527	5,826
Arizona.....	37	17	1,880	7,514	1,690	3,857	6,392	10,229	12,110	22,340	2,290	2,067	(D)
Nevada.....	6	1	137	641	126	248	568	1,400	1,323	2,724	(D)	(D)	(D)
Pacific.....	2,709	870	96,978	412,716	88,183	163,350	356,105	717,852	818,109	1,536,020	53,934	93,565	630,461
Washington.....	607	154	21,875	86,736	19,998	35,534	75,172	149,409	162,927	312,438	11,087	26,853	178,457
Oregon.....	1,326	411	44,296	187,771	40,408	74,274	164,003	326,143	400,531	726,623	23,600	41,337	296,490
California.....	776	305	30,806	138,208	27,776	53,541	116,929	242,299	254,651	496,959	19,246	25,375	155,513
Veneer mills (S.I.C. 2422), total.	261	212	12,825	35,453	11,796	23,254	28,464	59,250	61,468	120,718	3,146	10,461	36,858
Northeast.....	11	6	436	1,271	410	910	1,151	2,357	2,196	4,553	51	(D)	(D)
New York.....	7	5	258	771	241	526	693	1,057	1,097	2,155	(D)	(D)	(D)
East North Central.....	40	33	2,269	8,068	1,970	4,185	5,777	14,000	12,001	26,002	365	(D)	(D)
Indiana.....	23	20	1,226	4,802	1,048	2,314	3,280	8,835	7,161	15,997	151	924	4,766
West North Central.....	5	2	126	331	118	288	285	616	317	934	28	(D)	(D)
South Atlantic.....	106	91	4,920	10,925	4,595	8,985	8,958	16,551	16,064	32,616	1,198	(D)	(D)
Virginia.....	13	10	740	2,109	659	1,368	1,579	3,695	3,305	7,001	273	213	1,051
North Carolina.....	47	41	2,163	4,916	2,032	4,016	4,040	7,011	7,749	14,760	283	953	3,351
South Carolina.....	15	14	644	1,132	603	1,050	940	1,500	1,201	2,701	77	1,154	(D)
Georgia.....	15	13	738	1,486	701	1,420	1,291	2,430	2,141	4,572	454	894	2,017
East South Central.....	43	36	2,467	5,672	2,300	4,535	4,725	8,143	7,606	15,750	221	2,747	(D)
Kentucky.....	9	8	589	1,586	530	910	1,155	2,504	2,374	4,878	41	595	2,730
Tennessee.....	4	4	323	873	290	568	696	1,201	893	2,094	52	498	(D)
Alabama.....	20	14	823	1,584	779	1,513	1,385	2,250	2,209	4,460	83	1,034	2,477
Mississippi.....	10	10	732	1,629	700	1,542	1,489	2,187	2,130	4,318	45	620	1,917
West South Central.....	14	12	815	1,438	772	1,319	1,228	2,256	1,704	3,960	51	987	(D)
Arkansas.....	5	3	180	296	167	247	228	488	293	782	10	289	(D)
Louisiana.....	6	6	362	664	343	644	560	1,136	925	2,061	19	494	1,214
Texas.....	3	3	272	477	262	427	439	631	486	1,117	22	204	(D)
West.....	42	32	1,789	7,732	1,629	3,030	6,339	15,323	21,578	36,902	1,229	(D)	(D)
Oregon.....	19	18	912	3,995	827	1,566	3,237	8,281	11,949	20,230	443	367	(D)
California.....	13	9	517	2,332	465	895	1,877	4,929	6,165	11,094	631	(D)	(D)
Shingle mills (S.I.C. 2423), total.	175	33	2,532	9,367	2,339	3,223	7,970	15,451	18,183	33,632	984	2,446	15,465
All other divisions.....	13	1	140	519	117	195	333	874	1,379	2,253	56	(D)	(D)
Kentucky.....	2	...	4	11	4	6	10	32	19	51	1	...	...
Mountain.....	4	...	24	78	23	27	76	133	54	188	...	(D)	(D)
Pacific.....	158	32	2,367	8,769	2,196	2,998	7,557	14,443	16,748	31,189	926	2,369	(D)
Washington.....	105	25	1,831	6,930	1,690	2,362	5,942	11,702	14,126	25,827	840	1,696	10,703
Oregon.....	42	7	488	1,705	464	565	1,530	2,528	2,361	4,889	67	578	4,023
Cooperage stock mills (S.I.C. 2424), total.	205	55	3,368	6,521	3,188	5,575	5,793	10,843	15,486	26,330	221	12,291	27,191
New England.....	3	...	13	19	12	18	17	33	18	51	...	112	191
Middle Atlantic.....	4	...	45	74	30	56	51	101	221	322	10	...	...
North Central.....	52	11	687	1,457	644	1,062	1,253	2,549	3,583	6,133	48	1,051	2,981

See footnotes at end of table.

## LUMBER AND TIMBER BASIC PRODUCTS

24A-7

Table 2.—GENERAL STATISTICS BY REGIONS AND STATES: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Industry, region, and State <sup>1</sup>	1954											1947	
	Establishments, number		All employees		Production workers			Value added by manufacture	Cost of materials, etc.	Value of shipments	Capital expenditures, new	All employees, number	Value added by manufacture
	Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)		(\$1,000)
Cooperage stock mills, etc.—Continued													
South and West.....	146	44	2,622	4,971	2,500	4,438	4,470	8,159	11,663	19,823	161	11,128	24,019
Virginia.....	21	3	283	474	272	410	437	844	647	1,491	6	251	350
North Carolina.....	12	6	310	604	295	546	534	819	1,147	1,966	53	209	(D)
South Carolina.....	6	3	188	359	180	334	325	686	693	1,380	6	(D)	(D)
Tennessee.....	17	4	264	520	241	418	431	828	1,830	2,658	38	2,212	5,634
Louisiana.....	6	4	225	435	205	362	386	634	864	1,499	7	1,428	3,147
Excelsior mills (S.I.C. 2425), total.	68	20	1,424	4,150	1,290	2,463	3,547	6,928	5,138	12,066	243	1,161	4,495
All other States.....	56	19	1,292	3,866	1,167	2,213	3,293	6,278	4,730	11,009	222	1,042	4,050
Virginia.....	12	1	131	282	121	249	252	649	406	1,056	20	119	445

Note: Detailed figures may not add to the totals because of independent rounding.

NA Not available.

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>General statistics for some producing States are not shown separately in the table (see INTRODUCTION "Confidentiality of Data for Individual Companies"). Such States are shown below with the number of establishments in each State for 1954 and, in parentheses, the number of employees or the employment-size range for that State for 1954:

S.I.C. 2411, Logging Camps and Contractors: New England—Massachusetts, 21 (20-99); Rhode Island, 5 (1-19); Connecticut, 12 (20-99); Middle Atlantic—New Jersey, 20 (20-99); East North Central—Indiana, 24 (20-99); Illinois, 19 (20-99); West North Central—Iowa, 11 (20-99); Missouri, 28 (20-99); South Dakota, 13 (20-99); Nebraska, 1 (20-99); Kansas, 11 (20-99); West South Central—Arkansas, 328 (2,042); Oklahoma, 15 (20-99); Mountain—Idaho, 234, (2,500-4,999); Wyoming, 19 (20-99); New Mexico, 18 (100-249); Arizona, 13 (100-249); Utah, 3 (1-19); Nevada, 3 (1-19).

S.I.C. 2421, Sawmills and Planing Mills: New England—Massachusetts, 127 (500-999); Rhode Island, 5 (20-99); Connecticut, 57 (250-499); West North Central—Minnesota, 249 (1,000-2,499); North Dakota, 4 (1-19); South Dakota, 30 (500-999); Nebraska, 8 (20-99); Kansas, 32 (100-249); South Atlantic—Delaware, 34 (250-499); District of Columbia, 2 (20-99); Mountain—Montana, 230 (2,500-4,999); Utah, 54 (250-499).

S.I.C. 2422, Veneer Mills: Northeast—New Hampshire, 1 (100-249); Pennsylvania, 3 (20-99); East North Central—Ohio, 1 (20-99); Illinois, 2 (100-249); Michigan, 3 (100-249); Wisconsin, 11 (500-999); West North Central—Minnesota, 1 (20-99); Iowa, 1 (1-19); Missouri, 2 (20-99); Kansas, 1 (1-19); South Atlantic—Maryland, 4 (20-99); West Virginia, 3 (100-249); Florida, 9 (250-499); West—Idaho, 1 (20-99); Washington, 9 (250-499).

S.I.C. 2423, Shingle Mills: Mountain—Montana, 1 (1-19); Idaho, 3 (20-99); California, 11 (20-99); All Other Divisions—Maine, 4 (1-19); New Jersey, 2 (1-19); Ohio, 1 (20-99); Michigan, 1 (1-19); Minnesota, 1 (1-19); North Carolina, 1 (1-19); Mississippi, 1 (1-19).

S.I.C. 2424, Cooperage Stock Mills: New England—Maine, 3 (1-19); Middle Atlantic—New Jersey, 1 (1-19); Pennsylvania, 3 (20-99); North Central—Ohio, 6 (20-99); Indiana, 3 (20-99); Illinois, 9 (100-249); Wisconsin, 1 (1-19); Iowa, 2 (1-19); Missouri, 29 (250-499); South Dakota, 1 (1-19); Kansas, 1 (1-19); South and West—Maryland, 4 (20-99); West Virginia, 9 (20-99); Georgia, 1 (1-19); Florida, 2 (1-19); Kentucky, 17 (100-249); Alabama, 10 (250-499); Mississippi, 8 (100-249); Arkansas, 30 (250-499); Texas, 1 (1-19); Oregon, 1 (20-99); California, 1 (1-19).

S.I.C. 2425, Excelsior Mills: All Other States—Maine, 1 (20-99); New Hampshire, 3 (20-99); Massachusetts, 2 (1-19); New York, 5 (20-99); Indiana, 2 (20-99); Michigan, 1 (100-249); Wisconsin, 3 (100-249); Missouri, 1 (1-19); Delaware, 1 (1-19); North Carolina, 5 (20-99); Georgia, 3 (100-249); Tennessee, 4 (20-99); Alabama, 1 (20-99); Arkansas, 3 (100-249); Texas, 2 (20-99); Arizona, 5 (20-99); Utah, 1 (1-19); Washington, 1 (20-99); Oregon, 4 (100-249); California, 8 (20-99).



## MANUFACTURES—INDUSTRY STATISTICS

Table 3.—DETAILED STATISTICS FOR THE UNITED STATES: 1954

(For explanation of line captions see Introduction)

Item	Logging camps and contractors (S.I.C. 2411)	Sawmills and planing mills, (S.I.C. 2421)	Veneer mills (S.I.C. 2422)	Shingle mills (S.I.C. 2423)	Cooperage stocks mills (S.I.C. 2424)	Excelsior mills (S.I.C. 2425)
Primary product specialization ratio <sup>1</sup> .....	98	97	93	97	96	96
Coverage ratio <sup>2</sup> .....	89	81	88	90	93	93
Number of establishments, total.....	12,865	19,778	261	175	205	68
With 1-19 employees.....	12,316	16,598	49	142	150	48
With 20-99 employees.....	504	2,653	192	31	53	18
With 100 employees and over.....	45	527	20	2	2	2
All employees:						
Number (average for year).....	75,510	321,199	12,825	2,532	3,368	1,424
Payroll.....\$1,000..	210,625	906,847	35,453	9,367	6,521	4,150
Production workers:						
Number (average for year).....	68,171	296,070	11,796	2,339	3,188	1,290
Man-hours.....1,000..	115,575	558,428	23,254	3,223	5,575	2,463
Wages.....\$1,000..	182,295	781,760	28,464	7,970	5,793	3,547
Value added by manufacture.....do..	389,928	1,502,911	59,250	15,451	10,843	6,928
Cost of materials, etc.....do..	343,525	1,744,005	61,468	18,183	15,486	5,138
Value of shipments.....do..	733,417	3,247,200	120,718	33,632	26,330	12,066
Value added by resales.....do..	4,180	21,450	312	385	39	42
Cost of products bought and resold.....do..	36,711	214,808	2,649	1,718	367	271
Sales of products bought and resold.....do..	40,892	236,259	2,962	2,104	407	313
Total inventories, beginning of year.....do..	99,812	570,196	14,163	2,885	10,034	2,656
Total inventories, end of year.....do..	96,735	569,793	13,597	3,288	9,934	2,829
Capital expenditures, new.....do..	48,632	115,533	3,146	984	( <sup>3</sup> )	( <sup>3</sup> )
Total employment, by month:						
January.....	(NA)	(NA)	(NA)	(NA)	3,532	(NA)
February.....	(NA)	(NA)	(NA)	(NA)	3,868	(NA)
March.....	66,923	310,272	13,028	2,348	3,581	1,557
April.....	(NA)	(NA)	(NA)	(NA)	3,409	(NA)
May.....	74,873	324,000	12,335	2,596	3,545	1,477
June.....	(NA)	(NA)	(NA)	(NA)	3,658	(NA)
July.....	(NA)	(NA)	(NA)	(NA)	3,587	(NA)
August.....	78,211	321,490	12,307	2,537	3,492	1,314
September.....	(NA)	(NA)	(NA)	(NA)	3,253	(NA)
October.....	(NA)	(NA)	(NA)	(NA)	3,090	(NA)
November.....	82,036	329,034	13,629	2,646	2,740	1,345
December.....	(NA)	(NA)	(NA)	(NA)	2,661	(NA)
Cost of materials, fuel, electricity and contract work, total.....\$1,000..	343,525	1,744,005	61,468	18,183	15,486	5,138
Materials, parts, containers, and supplies consumed.....do..	256,645	1,546,422	58,258	17,700	14,588	4,851
Fuels consumed, total.....do..	15,084	31,809	599	139	146	66
Bituminous coal and anthracite:						
Quantity.....1,000 short tons..	104	387	37	1	2	1
Value.....\$1,000..	1,053	3,745	315	7	21	11
Coke:						
Quantity.....1,000 short tons..	1	6	...	...	...	...
Value.....\$1,000..	10	80	...	...	...	...
Fuel oil:						
Quantity.....1,000 barrels..	946	2,215	15	20	12	7
Value.....\$1,000..	4,012	10,016	67	79	60	32
Gas:						
Quantity.....million cubic feet..	3,554	10,583	281	22	80	40
Value.....\$1,000..	824	2,678	70	10	17	8
Other fuels:						
Value.....do..	9,185	15,290	147	43	48	15
Electric energy:						
Purchased:						
Quantity.....million kwh..	41	1,955	70	15	9	7
Cost.....\$1,000..	577	22,909	1,112	188	136	126
Generated.....million kwh..	2	1,079	3	1	...	...
Sold:						
Quantity.....do..	...	224	...	...	...	...
Value.....\$1,000..	...	1,333	...	...	...	...
Cost of contract work.....do..	71,219	142,865	1,499	156	616	95
Manufactures' inventories:						
Beginning of year, total.....do..	99,812	570,196	14,163	2,885	10,034	2,656
Finished products.....do..	60,381	316,133	8,307	1,358	3,595	( <sup>3</sup> )
Work-in-process.....do..	13,182	127,926	1,180	( <sup>3</sup> )	4,339	( <sup>3</sup> )
Materials, supplies, fuel, etc.....do..	26,248	126,137	4,675	1,050	2,100	2,162
End of year, total.....do..	96,735	569,793	13,597	3,288	9,934	2,829
Finished products.....do..	59,063	312,120	7,754	1,520	3,278	( <sup>3</sup> )
Work-in-process.....do..	13,158	125,328	1,242	737	4,088	( <sup>3</sup> )
Materials, supplies, fuel, etc.....do..	24,514	132,345	4,600	1,031	2,567	2,290
Expenditures for plant and equipment, total.....do..	52,403	125,386	3,599	1,062	( <sup>3</sup> )	( <sup>3</sup> )
Capital expenditures, new.....do..	48,632	115,533	3,146	984	( <sup>3</sup> )	( <sup>3</sup> )
New structures and additions to plant.....do..	5,201	37,853	1,091	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
New machinery and equipment.....do..	43,431	77,679	2,055	711	( <sup>3</sup> )	( <sup>3</sup> )
Expenditures for used plant and equipment.....do..	3,771	9,853	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
Horsepower rating of power equipment at end of 1954:						
Horsepower of prime movers and electric motors driven by purchased energy, total.....1,000 hp..	538	3,130	76	12	31	13
Engines, etc., driving electric generators.....do..	61	765	2	2	3	( <sup>4</sup> )
Engines, etc., not driving electric generators.....do..	454	822	11	3	15	4
Electric motors driven by purchased energy.....do..	23	1,543	63	7	13	9
Electric motors driven by energy generated at the establishment.....do..	1	446	2	( <sup>4</sup> )	...	...

Note: Detailed figures may not add to the totals because of independent rounding. xxx Not applicable. NA Not available. <sup>1</sup>The specialization ratio compares the given industry's shipments of its primary product to its total shipments of all products. (The primary products are listed in Tables 5B and 6A.) <sup>2</sup>The coverage ratio measures the extent to which the total shipments of products primary to the given industry are shipped by establishment classified in that industry. <sup>3</sup>Less than \$500 thousand. <sup>4</sup>Less than 500 hp.

## LUMBER AND TIMBER BASIC PRODUCTS

24A-9

Table 4.—SELECTED STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR THE UNITED STATES: 1954

(Value figures in thousands of dollars. For explanation of line captions see Introduction. Data which cannot be shown without disclosing information for individual companies have been combined with figures for other size classes. A (D) appears in the column where the figure has been omitted and the combined figure is underlined and shown in the size-class to the left)

Ind. code	Industry and item	Total, all establishments	Establishments with an average of—									
			1-4 employees	5-9 employees	10-19 employees	20-49 employees	50-99 employees	100-249 employees	250-499 employees	500-999 employees	1,000-2,499 employees	2,500 employees and over
2411	Logging camps & contractors:											
	Number of establishments...	12,865	9,266	2,174	876	406	98	33	10	2	...	...
	Number of employees.....	75,510	19,653	14,742	11,962	12,241	6,494	5,010	5,406	(D)	...	...
	Value added by manufacture.	389,928	92,798	64,792	61,690	70,492	39,801	28,977	<u>31,375</u>	(D)	...	...
2421	Sawmills and planing mills:											
	Number of establishments...	19,778	9,961	3,657	2,980	1,893	760	386	105	30	5	1
	Number of employees.....	321,199	21,817	25,661	42,438	58,378	52,526	56,544	35,008	20,660	<u>8,163</u>	(D)
	Value added by manufacture.	1,502,911	71,790	83,121	146,040	251,963	259,924	297,356	205,005	126,564	<u>61,144</u>	(D)
2422	Veneer mills:											
	Number of establishments...	261	16	11	22	109	83	20	...	...	...	...
	Number of employees.....	12,825	32	85	346	3,853	5,755	2,751	...	...	...	...
	Value added by manufacture.	59,250	286	532	1,188	17,061	27,640	12,541	...	...	...	...
2423	Shingle mills:											
	Number of establishments...	175	91	31	20	18	13	2	...	...	...	...
	Number of employees.....	2,532	204	225	288	654	<u>1,160</u>	(D)	...	...	...	...
	Value added by manufacture.	15,451	1,092	1,124	1,684	3,785	<u>7,763</u>	(D)	...	...	...	...
2424	Cooperage stock mills:											
	Number of establishments...	205	50	55	45	42	11	2	...	...	...	...
	Number of employees.....	3,368	115	407	646	1,243	<u>955</u>	(D)	...	...	...	...
	Value added by manufacture.	10,843	394	1,906	2,234	3,683	<u>2,623</u>	(D)	...	...	...	...
2425	Excelsior mills:											
	Number of establishments...	68	20	11	17	15	3	2	...	...	...	...
	Number of employees.....	1,424	<u>136</u>	(D)	252	<u>1,035</u>	(D)	(D)	...	...	...	...
	Value added by manufacture.	6,928	<u>614</u>	(D)	1,119	<u>5,191</u>	(D)	(D)	...	...	...	...

Note: Detailed figures may not add to the totals because of independent rounding.

Table 5A.—INDUSTRY-PRODUCT ANALYSIS—SUMMARY OF INDUSTRY AND PRIMARY PRODUCT SHIPMENTS, SPECIALIZATION RATIOS AND COVERAGE RATIOS FOR THE UNITED STATES: 1954 AND 1947

Industry code	Industry and census year	Value of shipments					Value of primary products shipped				
		Total	Primary products	Secondary products	Miscel- laneous receipts	Primary product speciali- zation ratio <sup>1</sup>	Total (made in all industries)	Made in this industry	Made in other industries	Coverage ratio <sup>2</sup>	
						Col. B					
						Col. B+C					
						Col. F					
(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	Col. B (Percent)	(\$1,000)	(\$1,000)	(\$1,000)	Col. G (Percent)			
(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)			
2411	Logging camps & contractors..1954.. 1947..	733,417 (NA)	525,161 (NA)	12,129 (NA)	196,127 (NA)	98 (NA)	590,805 (NA)	525,161 (NA)	65,644 (NA)	89 (NA)	
2421	Sawmills and planing mills <sup>3</sup> ..1954.. 1947..	3,247,200 2,519,455	3,071,740 ( <sup>3</sup> )	86,895 ( <sup>3</sup> )	88,565 81,734	97 ( <sup>3</sup> )	3,776,860 2,498,499	3,071,740 ( <sup>3</sup> )	705,120 ( <sup>3</sup> )	81 ( <sup>3</sup> )	
2422	Veneer mills.....1954.. 1947..	120,718 67,423	109,724 61,172	8,333 5,324	2,661 927	93 92	124,139 73,360	109,724 61,172	14,415 12,188	88 83	
2423	Shingle mills.....1954.. 1947..	33,632 26,254	32,398 26,254	1,173 ...	61 ...	97 100	35,822 30,541	32,398 26,254	3,424 4,287	90 86	
2424	Cooperage stock mills.....1954.. 1947..	26,330 55,132	25,192 52,302	926 2,223	212 607	96 96	26,920 56,892	25,192 52,302	1,728 4,590	93 92	
2425	Excelsior mills.....1954.. 1947..	12,066 7,508	10,382 7,344	458 ...	1,226 164	96 100	11,139 7,601	10,382 7,344	757 257	93 97	

NA Not available.

<sup>1</sup>The specialization ratio compares the given industry's shipments of its primary products to its total shipments of all products. (The primary products are listed in Tables 5A and 6A)

<sup>2</sup>The coverage ratio measures the extent to which the total shipments of products primary to the given industry are shipped by establishments classified in that industry.

<sup>3</sup>In 1954 logs, bolts, etc. (product class 24110) and box shook (product class 24446) have been treated as primary products of Industry 2421 whereas in 1947 they were excluded as primary products of this industry. Therefore, no comparable primary product specialization and coverage ratios are available (see text for more complete explanation).

<sup>4</sup>These values are overstated to a limited degree resulting from the misclassification of a small number of establishments whose principal activity is contract work primary to other industries.

## MANUFACTURES--INDUSTRY STATISTICS

Table 5B.--INDUSTRY-PRODUCT ANALYSIS--SHIPMENTS BY PRODUCT CLASS AND INDUSTRY, FOR THE UNITED STATES: 1954

(In thousands of dollars. The first column shows the total value of shipments of the specified industry divided among: (a) products classified in the industry (primary products), (b) products classified in other industries (secondary products) and (c) miscellaneous receipts. The value of shipments of the primary products of the specified industry reported by establishments not classified in that industry is shown under the caption "Other Industries." Industries accounting for significant amounts of the primary products listed are shown in separate columns provided that the figures for individual companies are not thereby disclosed. The last column shows the total value of shipments of the primary products of the industry by all manufacturing industries)

Prod. class code	Logging camps and contractors	Logging camps and contractors (S.I.C. 2411)	Sawmills and planing mills (S.I.C. 2421)	Other industries	All industries
24110	Total shipments and receipts of the industry.....	733,417	xxx	xxx	xxx
	Logs, bolts, and pulpwood.....	525,161	59,965	5,679	590,805
24211	Secondary products.....	12,129	xxx	xxx	xxx
	Rough lumber and sawed ties.....	8,651	xxx	xxx	xxx
	Other secondary products.....	3,478	xxx	xxx	xxx
	Miscellaneous receipts.....	196,127	xxx	xxx	xxx
	Contract and commission work:				
	Contract and custom logging.....	194,480	xxx	xxx	xxx
	Custom sawing and other.....	1,209	xxx	xxx	xxx
	Other.....	438	xxx	xxx	xxx

Prod. class code	Sawmills and planing mills	Sawmills and planing mills (S.I.C. 2421)	Logging camps and contractors (S.I.C. 2411)	Millwork plants (S.I.C. 2431)	Plywood plants (S.I.C. 2432)	Wooden boxes (S.I.C. 2444)	Other industries	All industries
	Total shipments and receipts of the industry.....	3,247,200	xxx	xxx	xxx	xxx	xxx	xxx
	Primary products.....	3,071,740	536,540	17,055	12,400	115,182	23,935	3,776,860
24211	Rough lumber and sawed ties.....	969,316	8,651	468	6,485	1,053	5,781	991,754
24212	Dressed lumber, except flooring.....	1,581,309	1,679	9,831	4,207	4,447	4,719	1,606,192
24213	Hardwood flooring.....	176,074	(1)	208	(D)	(1)	(1)	176,436
24214	Softwood flooring.....	29,842	(1)	(D)	...	...	(D)	30,324
24215	Hardwood dimension stock, furniture.....	35,079	(1)	207	(D)	(D)	1,182	37,171
24216	Hardwood dimension stock, except furniture.....	20,998	(1)	(D)	...	(1)	1,742	23,116
24217	Softwood cut stock.....	29,420	(D)	2,793	(1)	472	(D)	33,764
24218	Other sawmill and planing mill products.....	28,111	(1)	321	(1)	209	1,687	30,501
24210	Sawmills and planing mill products, not specified by kind.....	105,942	107	413	(1)	(D)	1,366	108,076
24110	Logs, bolts, and pulpwood.....	59,965	525,161	(1)	(D)	419	4,738	590,805
24446	Box shook: fruit, vegetable, industrial.....	35,684	(D)	2,324	(D)	108,084	(D)	148,721
	Secondary products.....	86,895	xxx	xxx	xxx	xxx	xxx	xxx
24221	Hardwood veneer.....	2,596	xxx	xxx	xxx	xxx	xxx	xxx
24222	Softwood veneer.....	2,139	xxx	xxx	xxx	xxx	xxx	xxx
24230	Shingles and shakes.....	2,345	xxx	xxx	xxx	xxx	xxx	xxx
24312	Window and door frames, wood.....	7,134	xxx	xxx	xxx	xxx	xxx	xxx
24315	Interior trim and moldings.....	24,091	xxx	xxx	xxx	xxx	xxx	xxx
24316	Other millwork products <sup>2</sup> .....	3,043	xxx	xxx	xxx	xxx	xxx	xxx
24321	Hardwood plywood.....	4,085	xxx	xxx	xxx	xxx	xxx	xxx
24322	Softwood plywood, interior type.....	6,633	xxx	xxx	xxx	xxx	xxx	xxx
24331	Fabricated structural framing and wood laminates.....	4,357	xxx	xxx	xxx	xxx	xxx	xxx
24994	Other wood products <sup>2</sup> .....	7,662	xxx	xxx	xxx	xxx	xxx	xxx
2511-	Wood furniture, not upholstered.....	3,587	xxx	xxx	xxx	xxx	xxx	xxx
28424	Polishing preparations and related products.....	3,764	xxx	xxx	xxx	xxx	xxx	xxx
	Other secondary products.....	15,459	xxx	xxx	xxx	xxx	xxx	xxx
	Miscellaneous receipts.....	38,565	xxx	xxx	xxx	xxx	xxx	xxx
	Contract and commission work:							
	Contract and custom logging.....	10,087	xxx	xxx	xxx	xxx	xxx	xxx
	Contract and custom sawing.....	41,583	xxx	xxx	xxx	xxx	xxx	xxx
	Contract kiln drying or planing.....	18,456	xxx	xxx	xxx	xxx	xxx	xxx
	Other.....	9,982	xxx	xxx	xxx	xxx	xxx	xxx
	Scrap and salable refuse.....	7,718	xxx	xxx	xxx	xxx	xxx	xxx
	Other.....	739	xxx	xxx	xxx	xxx	xxx	xxx

Prod. class code	Veneer mills	Veneer mills (S.I.C. 2422)	Plywood plants (S.I.C. 2432)	Other industries	All industries
	Total shipments and receipts of the industry.....	120,718	xxx	xxx	xxx
	Primary products.....	109,724	8,958	5,457	124,139
24221	Hardwood veneer.....	73,772	2,893	3,104	79,769
24222	Softwood veneer.....	33,025	6,044	2,143	41,212
24220	Veneer mills products, not specified by kind.....	2,927	(1)	210	3,158
	Secondary products.....	8,333	xxx	xxx	xxx
24211	Rough lumber and sawed ties.....	2,489	xxx	xxx	xxx
24321	Hardwood plywood.....	2,569	xxx	xxx	xxx
	Other secondary products.....	3,275	xxx	xxx	xxx
	Miscellaneous receipts.....	2,661	xxx	xxx	xxx
	Contract and commission work.....	1,709	xxx	xxx	xxx
	Other.....	952	xxx	xxx	xxx

See footnotes at end of table.



## LUMBER AND TIMBER BASIC PRODUCTS

24A-11

Table 5B.--INDUSTRY-PRODUCT ANALYSIS--SHIPMENTS BY PRODUCT CLASS AND INDUSTRY, FOR THE UNITED STATES: 1954--Continued

Prod. class code	Shingle mills	Shingle mills (S.I.C. 2423)	Other industries	All industries
24230	Total shipments and receipts of the industry.....	33,632	xxx	xxx
	Shingles and shakes.....	32,398	3,424	35,822
	Secondary products.....	1,173	xxx	xxx
	Miscellaneous receipts.....	61	xxx	xxx
Prod. class code	Cooperage stocks mills	Cooperage stocks mills (S.I.C. 2424)	Other industries	All industries
24240	Value of shipments.....	26,330	xxx	xxx
	Cooperage stock.....	25,192	1,728	26,920
	Secondary products.....	926	xxx	xxx
	Miscellaneous receipts.....	212	xxx	xxx
Prod. class code	Excelsior mills	Excelsior mills (S.I.C. 2425)	Other industries	All industries
24250	Total shipments and receipts of the industry.....	<sup>3</sup> 12,066	xxx	xxx
	Excelsior.....	10,382	757	11,139
	Secondary products.....	458	xxx	xxx
	Miscellaneous receipts.....	1,226	xxx	xxx
	Contract and commission work.....	<sup>3</sup> 1,072	xxx	xxx
	Other.....	154	xxx	xxx

xxx Not applicable.

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>Less than \$100 thousand.<sup>2</sup>For a description of the content of this product class, see Table 6A of the bulletin for the corresponding industry.<sup>3</sup>These values are overstated to a limited degree resulting from the misclassification of a small number of establishments whose principal activity is contract work primary to others industries.

Table 6A--QUANTITY AND VALUE OF PRODUCTS SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, FOR THE UNITED STATES: 1954 AND 1947

Product code	Product	Unit of quantity	1954		1947	
			Production for all purposes (quantity)	Total shipments including interplant transfers	total shipments including interplant transfers	Value
				Quantity	Quantity	Value (\$1,000)
2411---	Logging camps and logging contractors, total.....		xxx	xxx	1,000,805	(NA)
2411011	Logs and bolts.....	Thousand ft. (log scale).....	(NA)	8,646,709	389,880	xxx
2411031	Pulpwood, originally scaled in cords.....	Std. cds. of 128 cu. ft. (rough-wood basis).....	(NA)	6,457,987	112,555	xxx
2411098	Other wood products (including poles, piling, hewn cross ties, hewn or round mine timbers, hewn mine ties, etc.).....		xxx	xxx	32,117	xxx
2411000	Logs, bolts, pulpwood, etc. not specified by kind...		xxx	xxx	56,253	xxx
2421---	Sawmills and planing mills, general, total.....		xxx	xxx	3,037,334	xxx
24211	Rough lumber and sawed ties.....	Thousand bd. ft...	xxx	xxx	991,754	16,617,075
2421111	Rough lumber (except railway cross ties and mine ties).....	...do.....	xxx	14,468,265	965,643	16,138,547
2421131	Railway cross ties (sawed):					
	Quantity reported.....	...do.....	xxx	376,954	18,587	440,203
	Quantity not reported.....			xxx	4,433	
2421151	Mine ties (sawed):					
	Quantity reported.....	...do.....	xxx	50,009	2,250	38,325
	Quantity not reported.....			xxx	841	
2421211	Dressed lumber (including ceiling, framing, partition, siding, matched and shiplapped lumber)...	...do.....	xxx	21,399,911	1,606,192	16,951,687
24213	Hardwood flooring.....	...do.....	xxx	xxx	176,436	594,632
2421311	Oak (25/32", 1/2", 3/8", T & G and EM and 5/16" square edge strip).....	...do.....	xxx	1,067,651	154,423	470,689
2421315	Oak, block, parquetry, and plank.....	...do.....	xxx	18,416	4,297	
2421319	Oak, other.....	...do.....	xxx	29,053	3,303	63,632
2421331	Maple, including strip, block, parquetry.....	...do.....	xxx	44,903	8,634	
2421351	Other hardwoods:					
	Quantity reported.....	...do.....	xxx	40,979	4,311	60,311
	Quantity not reported.....			xxx	1,468	
2421411	Softwood flooring.....	...do.....	xxx	315,749	30,324	632,625
2421511	Hardwood furniture dimension stock (including glued laminates; green or dried-rough, surfaced, or semi-fabricated).....	Thousand bd. ft. lbr. cons.....	xxx	219,539	37,171	183,709
24216	Other hardwood dimension stock, except structural laminates.....		xxx	xxx	23,116	xxx
2421613	Textile machinery stock (bobbin, shuttle, etc.)...		xxx	(NA)	3,497	(NA)
2421615	Other industrial dimension stock except structural laminates, (for handles; golf clubs; agricultural implement; railroad car, and vehicle parts; ladder parts; skis, gun stock, brushes, etc.):					
	Quantity reported.....	Thousand bd. ft. lbr. cons.....		98,108	16,384	74,138
	Quantity not reported.....			xxx	3,235	
24217	Softwood cut stock.....	Thousand bd. ft...	xxx	286,802	33,764	233,695
2421711	Furniture cut stock.....	...do.....	xxx	72,688	9,926	49,424
2421751	Industrial cut stock.....	...do.....	xxx	214,114	23,838	184,271
24218	Other general sawmill and planing mill products, n.e.c.....		xxx	xxx	30,501	xxx
2421811	Tobacco hoghead stock.....	Thousand bd. ft...	xxx	10,015	709	(NA)
2421813	Snow fence lath.....	Thousand pieces...	64,338	63,263	1,251	171,656
2421819	Other sawmill products.....		xxx	xxx	23,282	xxx
2421859	Other planing mill products.....		xxx	xxx	5,259	xxx
2421000	Sawmill and planing mill products, not specified by type.....		xxx	xxx	108,076	xxx
2422---	Veneer mills, total.....		xxx	xxx	124,139	xxx
24221	Hardwood veneer.....	Thousand sq. ft. surf. meas.....	xxx	xxx	79,769	xxx
2422111	Special and face types.....	...do.....	xxx	1,237,476	39,966	550,482
2422131	Commercial and utility types.....	...do.....	xxx	1,342,916	25,646	1,547,420
2422151	Container type.....	...do.....	xxx	1,021,389	11,531	596,014
2422171	Flat type.....	...do.....	xxx	26,948	603	
2422100	Hardwood veneer, not specified by kind.....	...do.....	xxx	(NA)	2,023	67,996

See footnotes at end of table.

## LUMBER AND TIMBER BASIC PRODUCTS

24A-13

Table 6A.--QUANTITY AND VALUE OF PRODUCTS SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, FOR THE UNITED STATES: 1954 AND 1947--Continued

Product code	Product	Unit of quantity	1954		1947 total shipments including interplant transfers	
			Production for all purposes (quantity)	Total shipments including interplant transfers	Quantity	Value (\$1,000)
				Quantity		
2422---	Veneer mills--Continued					
24222	Softwood veneer.....	xxx	xxx	41,212	xxx	28,749
2422211	Plywood veneer, total.....	Thousand sq. ft.				
	1" basis.....	xxx	378,685	35,616	233,739	4,605
2422231	Container veneer, total.....	xxx	55,343	5,297	200,426	3,414
2422200	Softwood veneer, not specified by kind.....	Do.....	xxx	(NA)	258,154	730
242000	Other veneer, not specified by kind or type.....	xxx	xxx	3,158	xxx	1,401
2423---	Shingle mills, total.....	xxx	xxx	35,822	xxx	30,541
	Produced from logs and bolts:					
2423011	Shingles, red cedar.....	Roof squares.....	2,371,548	2,387,947	17,988	3,831,939
2423015	Shakes, red cedar.....	Side-wall squares.....	526,214	556,271	4,910	
2423019	Shingles and shakes other than red cedar.....	Squares.....	79,312	79,944	797	
2423051	Shakes produced from purchased shingles.....	Side-wall squares.....	938,294	923,606	11,101	30,541
2423000	Shingles and shakes, not specified by kind.....	xxx	xxx	1,026	xxx	
2424---	Cooperage Stock mills, total.....	xxx	xxx	26,920	xxx	56,892
	Slack cooperage stock:					
2424011	Staves:					
	Quantity reported.....	Thousand staves...	xxx	150,093	3,571	360,007
	Quantity not reported.....		xxx	xxx	1,795	
2424021	Heading:					
	Quantity reported.....	Thousand sets.....	xxx	9,670	1,788	37,005
	Quantity not reported.....		xxx	xxx	619	
2424031	Hoops.....	Thousand hoops.....	xxx	(NA)	206	10,877
	Tight cooperage stock:					
2424051	Staves.....	Thousand staves...	xxx	36,816	12,799	114,661
2424071	Heading:					
	Quantity reported.....	Thousand sets.....	xxx	1,118	2,899	9,319
	Quantity not reported.....		xxx	xxx	661	
2424000	Cooperage stock, not specified by kind.....	xxx	xxx	2,576	xxx	1,570
2425---	Excelsior mills, total.....	xxx	xxx	11,139	xxx	7,601
2425011	Shipments of excelsior, baled or bulk.....	Short tons.....	xxx	96,081	4,200	312,295
2425051	Excelsior pads and wrappers.....	xxx	xxx	6,020	xxx	4,191
2425098	Other excelsior products.....	xxx	xxx	382	xxx	43,410
2425000	Excelsior products, not specified by kind.....	xxx	xxx	537	xxx	xxx

xxx Not applicable.

NA Not available.

<sup>1</sup>In addition to the logging products shipped, there was also \$204,567 thousand of receipts from contract and custom logging of timber owned by others reported by Industries 2411, "Logging Camps and Logging Contractors," (\$194,480 thousand) and 2421, "Sawmills and Planing Mills," (\$10,087 thousand).

<sup>2</sup>Quantity data not comparable. The unit of measure reported for 1947 was in thousands of square feet, surface measure.

<sup>3</sup>In addition, 41,000 tons of excelsior were produced and used as a material in plants manufacturing excelsior pads.

<sup>4</sup>Includes a small quantity of miscellaneous excelsior products not classifiable.



## MANUFACTURES—INDUSTRY STATISTICS

Table CB.—VALUE OF PRODUCT CLASSES SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, BY DIVISIONS AND STATES FOR 1954,  
AND UNITED STATES TOTALS FOR EARLIER YEARS

(In thousands of dollars. Statistics are shown for selected product classes which are economically significant and production of which is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (Table 2) and they are not miscellaneous or "not specified by type" classes. For each product class, States are listed only if the value of shipments is more than \$1 million and the figures does not disclose individual company information. Additional States which had shipments of more than \$1 million of the individual product classes are listed in footnote 1)

Product class, region, and State <sup>1</sup>	Value of shipments	Product class, region, and State <sup>1</sup>	Value of shipments	Product class, region, and State <sup>1</sup>	Value of shipments
<b>Logs, bolts, and pulpwood (24110)</b>		<b>Rough lumber and sawed ties (24211)--</b>		<b>Dressed lumber, except flooring</b>	
1954 United States, total.....	590,805	Continued		(24212)	
1953 United States, total.....	582,402	1947 United States, total.....	924,241	1954 United States, total.....	1,606,192
1952 United States, total.....	592,114			1953 United States, total.....	1,628,568
1951 United States, total.....	581,949			1952 United States, total.....	1,630,199
1954		1954		1951 United States, total.....	1,587,320
New England.....	55,429	New England.....	34,605	1950 United States, total.....	1,454,906
Maine.....	42,352	Maine.....	13,716	1947 United States, total.....	1,185,408
New Hampshire.....	10,112	New Hampshire.....	8,817	1954	
Vermont.....	2,533	Vermont.....	7,236	New England.....	22,572
Middle Atlantic.....	11,355	Massachusetts.....	3,216	Maine.....	13,310
New York.....	7,459	Middle Atlantic.....	47,413	New Hampshire.....	3,171
Pennsylvania.....	3,386	New York.....	20,818	Vermont.....	3,731
East North Central.....	18,734	New Jersey.....	3,010	Massachusetts.....	1,466
Michigan.....	9,991	Pennsylvania.....	23,584	Middle Atlantic.....	8,305
Wisconsin.....	7,276	East North Central.....	57,369	New York.....	4,612
West North Central.....	12,630	Ohio.....	8,958	Pennsylvania.....	3,419
Minnesota.....	11,250	Indiana.....	8,583	East North Central.....	7,808
South Atlantic.....	58,244	Illinois.....	4,470	Michigan.....	3,273
Maryland.....	1,001	Michigan.....	22,534	Wisconsin.....	3,102
Virginia.....	4,694	Wisconsin.....	12,823	West North Central.....	3,736
West Virginia.....	2,341	West North Central.....	14,705	Minnesota.....	1,372
North Carolina.....	8,278	Minnesota.....	3,562	South Dakota.....	1,173
South Carolina.....	8,599	Iowa.....	1,328	South Atlantic.....	245,489
Georgia.....	16,775	Missouri.....	7,063	Maryland.....	7,336
Florida.....	15,844	South Dakota.....	2,066	Virginia.....	37,869
East South Central.....	29,169	South Atlantic.....	165,645	West Virginia.....	2,253
Kentucky.....	1,053	Maryland.....	6,921	North Carolina.....	66,455
Tennessee.....	5,074	Virginia.....	31,372	South Carolina.....	33,047
Alabama.....	14,549	West Virginia.....	18,393	Georgia.....	75,367
Mississippi.....	8,493	North Carolina.....	37,278	Florida.....	22,371
West South Central.....	29,758	South Carolina.....	21,654	East South Central.....	107,862
Arkansas.....	9,139	Georgia.....	36,641	Kentucky.....	2,443
Louisiana.....	10,987	Florida.....	12,473	Tennessee.....	9,387
Texas.....	9,376	East South Central.....	111,244	Alabama.....	64,247
Mountain.....	30,596	Kentucky.....	13,049	Mississippi.....	31,785
Montana.....	6,829	Tennessee.....	25,049	West South Central.....	121,190
Idaho.....	21,091	Alabama.....	35,178	Arkansas.....	39,580
Colorado.....	1,168	Mississippi.....	37,967	Louisiana.....	32,429
Pacific.....	344,897	West South Central.....	70,882	Oklahoma.....	2,863
Washington.....	133,645	Arkansas.....	22,055	Texas.....	46,317
Oregon.....	152,221	Louisiana.....	29,183	Mountain.....	172,208
California.....	59,031	Oklahoma.....	1,187	Montana.....	42,784
<b>Rough lumber and sawed ties (24211)</b>		Texas.....	18,456	Idaho.....	93,839
1954 United States, total.....	991,754	Mountain.....	60,746	Wyoming.....	1,402
1953 United States, total.....	1,224,824	Montana.....	13,063	Colorado.....	6,547
1952 United States, total.....	1,218,731	Idaho.....	26,823	New Mexico.....	10,413
1951 United States, total.....	1,293,943	Wyoming.....	3,320	Arizona.....	15,999
		Colorado.....	4,575	Pacific.....	917,896
		New Mexico.....	4,900	Washington.....	197,028
		Arizona.....	4,067	Oregon.....	465,059
		Pacific.....	429,949	California.....	255,809
		Washington.....	55,596		
		Oregon.....	180,408		
		California.....	193,144		

See footnotes at end of table.

## LUMBER AND TIMBER BASIC PRODUCTS

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Table 6B.—VALUE OF PRODUCT CLASSES SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, BY DIVISIONS AND STATES FOR 1954, AND UNITED STATES TOTALS FOR EARLIER YEARS—Continued

Product class, region, and State <sup>1</sup>	Value of shipments	Product class, region, and State <sup>1</sup>	Value of shipments	Product class, region, and State <sup>1</sup>	Value of shipments
<u>Hardwood flooring (24213)</u>		<u>Hardwood flooring (24213)—</u>		<u>Hardwood veneer (24221)—Continued</u>	
1954 United States, total.....	176,436	Continued			
1953 United States, total.....	149,437				
1952 United States, total.....	140,054	East South Central.....	62,308	Middle Atlantic.....	2,976
1951 United States, total.....	174,552			New York.....	1,982
1950 United States, total.....	173,305	Kentucky.....	4,775	East North Central.....	24,754
1947 United States, total.....	84,440	Tennessee.....	38,911		
1954		Alabama.....	9,817	Indiana.....	13,622
Middle Atlantic.....	3,779	Mississippi.....	8,804	Illinois.....	1,394
Pennsylvania.....	2,160			Wisconsin.....	6,347
East North Central.....	14,284	West South Central.....	51,542	South Atlantic.....	29,324
Michigan.....	5,297	Arkansas.....	31,850		
Wisconsin.....	3,638	Louisiana.....	14,404	Virginia.....	6,213
West North Central.....	7,335	West.....	1,369	North Carolina.....	12,723
Missouri.....	7,320			South Carolina.....	3,596
South Atlantic.....	35,355	<u>Hardwood veneer (24221)</u>		Georgia.....	3,825
Virginia.....	14,855	1954 United States, total.....	79,769	Florida.....	1,871
West Virginia.....	2,887	1947 United States, total.....	63,210	East South Central.....	14,394
North Carolina.....	6,126	1954		Kentucky.....	4,594
Georgia.....	7,405			Tennessee.....	1,906
Florida.....	1,583	New England.....	2,620	Alabama.....	4,347
				Mississippi.....	3,546
				West South Central.....	4,044
				Louisiana.....	2,201

Note: The figures shown for 1950 to 1953 are sample estimates obtained from the Annual Survey of Manufactures for those years. Since the estimates are based on a sample they are subject to sampling variability, that is, they are not the same as figures which would have been obtained if complete censuses had been taken for those years. Measures of the sampling variability (standard errors) of the estimated total value of shipments of each product class are shown in the Annual Survey of Manufactures publications. Also shown are the standard errors of the relative change in shipments between some consecutive Annual Survey years which are the more significant measures when the series is studied for trend.

<sup>1</sup>For the specified product classes, shipments of over \$1 million were reported for the States listed but the exact figures are withheld to avoid disclosure of individual company figures: 24211, Connecticut, Utah, and Nevada; 24212, Utah; 24213, New York, Ohio, Illinois, South Carolina, and Texas; 24223, New Hampshire and Michigan.

## MANUFACTURES--INDUSTRY STATISTICS

Table 6C.--LUMBER - NUMBER OF ACTIVE SAWMILLS AND PRODUCTION OF SOFTWOOD AND

(Includes data obtained by mail canvass of all sawmills with one or more paid employees as reported to the Bureau of Old Age and Survivors Insurance, which maintain no account with the Bureau of Old Age and Survivors Insurance. Hence all Eastern production figures, are subject to the sampling in the other tables in this Bulletin, but in addition incorporate the lumber production from an estimated 28,600 sawmills derived from the area therefore, it was necessary to distribute totals for such mills according to ratios of commercially available species in the area)

(Production in thousands)

Line no.	Division and State	Number of active sawmills	Total lumber production	Total softwood lumber production	Softwood						
					Cedar				Cypress	Douglas-fir	White and other western true firs
					Eastern red, northern white and southern (Atlantic white)	Incense	Port Orford	Western red			
1	United States, total...	45,929	36,355,512	29,281,611	**129,174	76,504	18,089	287,575	240,063	10,678,597	1,804,244
2	Northeast.....	6,358	1,872,640	1,021,506	28,116	...	...	...	...	...	...
3	New England.....	*2,145	*991,368	*798,575	21,411	...	...	...	...	...	...
4	Maine.....	**804	**394,542	**359,141	12,226	...	...	...	...	...	...
5	New Hampshire.....	(S)	*271,231	*219,962	3,685	...	...	...	...	...	...
6	Vermont.....	**438	(S)	(S)	*725	...	...	...	...	...	...
7	Massachusetts.....	(S)	(S)	(S)	4,761	...	...	...	...	...	...
8	Rhode Island.....	(S)	(S)	(S)	...	...	...	...	...	...	...
9	Connecticut.....	(S)	*26,162	**13,427	(S)	...	...	...	...	...	...
10	Middle Atlantic.....	*4,213	881,272	222,931	6,705	...	...	...	...	...	...
11	New York.....	*1,777	361,652	*133,124	4,075	...	...	...	...	...	...
12	New Jersey.....	(S)	*28,203	(S)	(S)	...	...	...	...	...	...
13	Pennsylvania.....	*2,268	491,417	83,614	1,144	...	...	...	...	...	...
14	North Central <sup>1</sup> .....	12,280	1,687,943	*351,094	10,617	...	...	...	6,144	...	...
15	East North Central.....	*6,501	1,162,389	*191,358	*6,354	...	...	...	2,406	...	...
16	Ohio.....	*1,369	214,287	9,061	764	...	...	...	...	...	...
17	Indiana.....	**1,085	*159,626	8,820	1,419	...	...	...	808	...	...
18	Illinois.....	(S)	*101,110	6,831	...	...	...	...	1,598	...	...
19	Michigan.....	*1,381	*361,712	**89,100	(S)	...	...	...	...	...	...
20	Wisconsin.....	*1,444	325,654	**77,546	2,425	...	...	...	...	...	...
21	West North Central <sup>1</sup> .....	*5,779	525,554	**159,736	4,263	...	...	...	*3,738	...	...
22	Minnesota.....	**1,782	*177,442	(S)	*2,226	...	...	...	...	...	...
23	Iowa.....	**658	*42,528	(S)	(S)	...	...	...	...	...	...
24	Missouri.....	*2,585	*272,303	*51,207	1,896	...	...	...	3,330	...	...
25	North Dakota.....	(S)	(S)	...	...	...	...	...	...	...	...
26	Nebraska.....	(S)	(S)	(S)	6	...	...	...	(S)	...	...
27	Kansas.....	(S)	(S)	(S)	1	...	...	...	140	...	...
28	South.....	24,068	12,815,245	7,976,405	**90,441	...	...	...	233,919	...	...
29	South Atlantic.....	14,527	6,554,088	4,538,187	33,523	...	...	...	*145,965	...	...
30	Delaware.....	(C)	*38,659	**31,206	361	...	...	...	4	...	...
31	Maryland.....	(S)	*233,765	**151,608	601	...	...	...	(S)	...	...
32	District of Columbia.....	...	...	...	...	...	...	...	...	...	...
33	Virginia.....	*3,713	*1,251,464	740,376	3,802	...	...	...	4,548	...	...
34	West Virginia.....	**1,822	420,839	*57,536	1,568	...	...	...	50	...	...
35	North Carolina.....	*4,146	1,706,595	1,258,846	15,889	...	...	...	(S)	...	...
36	South Carolina.....	*1,196	816,830	625,954	2,661	...	...	...	35,637	...	...
37	Georgia.....	*2,629	1,670,666	1,308,881	5,579	...	...	...	10,492	...	...
38	Florida.....	(S)	415,270	363,780	3,062	...	...	...	56,020	...	...
39	East South Central.....	*6,516	3,441,565	1,770,653	(S)	...	...	...	*35,692	...	...
40	Kentucky.....	*1,666	*378,866	**66,171	(S)	...	...	...	(S)	...	...
41	Tennessee.....	*1,843	*654,408	*216,413	(S)	...	...	...	(S)	...	...
42	Alabama.....	**1,786	1,404,803	962,879	2,542	...	...	...	9,006	...	...
43	Mississippi.....	(S)	*1,003,488	**525,190	1,960	...	...	...	**15,942	...	...
44	West South Central.....	*3,025	2,819,592	1,667,565	5,638	...	...	...	*52,262	...	...
45	Arkansas.....	**1,138	1,040,171	576,953	3,385	...	...	...	15,269	...	...
46	Louisiana.....	(S)	782,209	394,917	503	...	...	...	(S)	...	...
47	Oklahoma.....	(S)	*63,433	*38,099	(S)	...	...	...	110	...	...
48	Texas.....	*694	933,779	657,596	1,743	...	...	...	*2,828	...	...
49	West <sup>1</sup> .....	3,223	19,979,684	19,932,606	...	76,504	18,089	287,575	...	10,678,597	1,804,244
50	Mountain <sup>1</sup> .....	866	2,987,938	2,974,831	...	180	...	48,517	...	521,506	270,614
51	Montana.....	214	738,343	729,140	...	...	...	9,634	...	144,730	20,042
52	Idaho.....	206	1,399,101	1,397,819	...	...	...	38,863	...	316,728	212,902
53	Wyoming.....	75	81,468	81,462	...	...	...	...	...	1,414	642
54	Colorado.....	171	173,707	172,140	...	...	...	...	...	3,514	4,522
55	New Mexico.....	88	221,735	221,735	...	...	...	20	...	41,382	10,576
56	Arizona.....	31	258,190	258,190	...	...	...	...	...	11,679	7,403
57	Utah.....	50	50,517	49,618	...	...	...	...	...	2,059	373
58	Nevada.....	4	28,157	28,157	...	180	...	...	...	...	14,154
59	South Dakota <sup>1</sup> .....	27	36,720	36,570	...	...	...	...	...	...	...
60	Pacific.....	2,357	16,991,746	16,957,775	...	76,324	18,089	239,058	...	10,157,091	1,533,630
61	Washington.....	552	3,028,390	3,018,307	...	...	...	206,136	...	1,838,385	224,064
62	Oregon.....	1,201	8,850,843	8,829,689	...	27,954	14,376	32,922	...	6,292,549	546,660
63	California.....	604	5,112,513	5,109,779	...	48,370	3,713	...	...	2,026,157	762,906

See footnotes at end of table.



## LUMBER AND TIMBER BASIC PRODUCTS

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HARDWOOD LUMBER, BY SPECIES AND BY GEOGRAPHIC DIVISIONS AND STATES: 1954

and from an area sample designed to be representative of those sawmills located in the Eastern States (all Divisions except Mountain and Pacific) variations noted below. Data in this table include not only the sawmills for which detailed establishment and product statistics have been presented sample survey. Species data are subject to the further limitation that many of the smaller mills do not maintain detailed records of production,

of board feet, lumber tally)

Softwood--Continued															Line no.
Hemlock	Larch	Pine						Redwood	Spruce			Tamarack	Other		
		Eastern white, jack and Norway (red)	Lodge- pole	Ponderosa (Western yellow)	Southern yellow	Sugar	Western (Idaho) white		Eastern (black, red and white)	Engel- mann and blue	Sitka				
1,337,182	321,371	1,036,223	157,388	3,405,626	7,332,280	331,143	298,710	958,497	*123,006	507,591	76,664	10,713	150,971	1	
*246,082	...	*615,795	...	...	(S)	...	...	...	**107,736	...	...	1,404	*20,110	2	
*150,689	...	*512,531	...	...	...	...	...	...	**96,434	...	...	1,103	*16,407	3	
**57,438	...	**258,659	...	...	...	...	...	...	26,054	...	...	694	*4,070	4	
**31,478	...	*156,760	...	...	...	...	...	...	(S)	...	...	393	(S)	5	
(S)	...	(S)	...	...	...	...	...	...	(S)	...	...	16	*6,255	6	
**12,167	...	(S)	...	...	...	...	...	...	**3,138	...	...	...	*1,187	7	
(S)	...	(S)	...	...	...	...	...	...	(S)	...	...	...	...	8	
(S)	...	*8,312	...	...	...	...	...	...	411	...	...	...	10	9	
95,393	...	*103,264	...	...	(S)	...	...	...	**11,302	...	...	301	3,703	10	
*50,464	...	*70,280	...	...	(S)	...	...	...	7,118	...	...	126	582	11	
(S)	...	(S)	...	...	(S)	...	...	...	(S)	...	...	...	312	12	
*44,591	...	(S)	...	...	(S)	...	...	...	(S)	...	...	175	2,809	13	
*80,948	...	**165,863	...	...	*52,258	...	...	...	*5,830	...	...	9,309	*20,125	14	
*80,264	...	*73,197	...	...	6,718	...	...	...	*3,942	...	...	8,814	9,663	15	
1,605	...	3,605	...	...	**691	...	...	...	...	...	...	...	2,196	16	
238	...	397	...	...	*3,837	...	...	...	...	...	...	...	2,121	17	
800	...	1,606	...	...	1,990	...	...	...	...	...	...	...	837	18	
**53,093	...	*27,364	...	...	...	...	...	...	*3,264	...	...	...	3,633	19	
(S)	...	(S)	...	...	...	...	...	...	(S)	...	...	8,814	(S)	20	
684	...	(S)	...	...	*45,540	...	...	...	(S)	...	...	(S)	**10,462	21	
684	...	(S)	...	...	...	...	...	...	(S)	...	...	(S)	**6,632	22	
...	...	(S)	...	...	...	...	...	...	...	...	...	...	1,366	23	
...	...	...	...	...	*45,250	...	...	...	...	...	...	...	*731	24	
...	...	...	...	...	(S)	...	...	...	...	...	...	...	...	25	
...	...	...	...	...	...	...	...	...	...	...	...	...	(S)	26	
...	...	...	...	...	...	...	...	...	...	...	...	...	(S)	27	
*40,255	...	254,565	...	...	7,277,759	...	...	...	*9,440	...	...	...	70,026	28	
26,554	...	*164,568	...	...	4,103,318	...	...	...	**8,449	...	...	...	55,810	29	
...	...	...	...	...	29,247	...	...	...	...	...	...	...	1,594	30	
**453	...	3,828	...	...	(S)	...	...	...	...	...	...	...	4,320	31	
...	...	(S)	...	...	665,166	...	...	...	...	...	...	...	...	32	
**1,989	...	(S)	...	...	*19,912	...	...	...	**8,449	...	...	...	9,762	33	
*10,981	...	...	...	...	1,122,284	...	...	...	...	...	...	...	2,935	34	
10,612	...	*53,860	...	...	570,456	...	...	...	...	...	...	...	18,783	35	
(S)	...	10,886	...	...	1,255,480	...	...	...	...	...	...	...	6,193	36	
**2,398	...	24,843	...	...	300,163	...	...	...	...	...	...	...	10,089	37	
...	...	2,401	...	...	...	...	...	...	...	...	...	...	2,134	38	
**13,701	...	54,758	...	...	*1,604,831	...	...	...	991	...	...	...	9,400	39	
(S)	...	3,494	...	...	**42,672	...	...	...	...	...	...	...	911	40	
*4,999	...	*18,152	...	...	*143,422	...	...	...	991	...	...	...	2,488	41	
769	...	27,098	...	...	918,094	...	...	...	...	...	...	...	5,370	42	
...	...	6,014	...	...	**500,643	...	...	...	...	...	...	...	631	43	
...	...	35,239	...	...	1,569,610	...	...	...	...	...	...	...	4,816	44	
...	...	16,077	...	...	541,303	...	...	...	...	...	...	...	919	45	
...	...	12,613	...	...	347,278	...	...	...	...	...	...	...	468	46	
...	...	118	...	...	**36,654	...	...	...	...	...	...	...	1,210	47	
...	...	6,431	...	...	644,375	...	...	...	...	...	...	...	2,219	48	
969,897	321,371	...	157,388	3,405,626	...	331,143	298,710	958,497	...	507,591	76,664	...	40,710	49	
7,356	243,035	...	148,886	1,001,171	...	...	245,146	...	...	470,546	...	...	17,874	50	
2,785	148,036	...	11,467	162,665	...	...	27,084	...	...	186,273	...	...	16,424	51	
4,571	94,999	...	18,431	342,128	...	...	218,062	...	...	150,696	...	...	439	52	
...	...	...	64,507	7,211	...	...	...	...	...	7,595	...	...	93	53	
...	...	...	41,244	47,299	...	...	...	...	...	74,940	...	...	621	54	
...	...	...	262	133,323	...	...	...	...	...	36,079	...	...	93	55	
...	...	...	...	234,693	...	...	...	...	...	4,415	...	...	...	56	
...	...	...	12,751	23,683	...	...	...	...	...	10,548	...	...	204	57	
...	...	...	224	13,599	...	...	...	...	...	...	...	...	...	58	
...	...	...	...	36,570	...	...	...	...	...	...	...	...	...	59	
962,541	78,336	...	8,502	2,404,455	...	331,143	53,564	958,497	...	37,045	76,664	...	22,836	60	
554,700	65,498	...	3,477	24,710	...	...	43,687	...	...	21,116	33,537	...	2,997	61	
407,510	12,838	...	4,337	1,327,209	...	83,194	9,877	1,355	...	15,929	36,852	...	16,127	62	
331	...	...	688	1,052,536	...	247,949	...	957,142	...	...	6,275	...	3,712	63	

## MANUFACTURES—INDUSTRY STATISTICS

Table 6C.--LUMBER - NUMBER OF ACTIVE SAWMILLS AND PRODUCTION OF SOFTWOOD AND

(Production in thousands)

Line no.	Division and State	Hardwood							
		Total hardwood lumber production	Alder	Ash	Basswood	Beech	Birch	Cherry	Cottonwood and aspen (popple)
1	United States, total.....	7,073,901	18,894	107,229	111,742	219,879	149,809	61,365	280,168
2	Northeast.....	851,134	...	*19,435	*35,444	*64,831	*81,257	*43,853	*6,071
3	New England.....	*192,793	...	5,903	*2,791	(S)	**43,481	*583	4,584
4	Maine.....	(S)	...	(S)	**653	(S)	**10,570	...	...
5	New Hampshire.....	*51,269	...	2,555	261	(S)	12,183	26	19
6	Vermont.....	(S)	...	1,270	(S)	(S)	(S)	276	4,541
7	Massachusetts.....	**19,424	...	**913	248	(S)	(S)	(S)	16
8	Rhode Island.....	(S)	...	...	...	(S)	(S)	...	...
9	Connecticut.....	**12,735	...	*200	(S)	(S)	**367	(S)	(S)
10	Middle Atlantic.....	658,341	...	**13,532	*32,653	*51,144	37,776	*43,270	(S)
11	New York.....	*228,528	...	(S)	**18,541	**21,939	32,454	*11,874	(S)
12	New Jersey.....	*22,010	...	(S)	8	1,324	(S)	...	...
13	Pennsylvania.....	407,803	...	*6,967	*14,104	*27,881	*5,280	*31,396	*650
14	North Central.....	1,336,849	...	*22,875	41,245	40,699	46,823	7,112	*159,306
15	East North Central.....	971,031	...	*19,372	34,040	40,450	43,525	6,953	*82,653
16	Ohio.....	205,226	...	**3,977	*1,531	*18,442	**527	2,158	**1,487
17	Indiana.....	*150,806	...	*2,631	*1,908	**8,468	**328	*1,008	*6,213
18	Illinois.....	**94,279	...	(S)	**204	(S)	**493	624	(S)
19	Michigan.....	*272,612	...	*6,209	*9,262	*11,333	*26,035	(S)	*21,130
20	Wisconsin.....	248,108	...	**5,695	21,135	*1,863	*16,142	2,066	*39,622
21	West North Central <sup>1</sup> .....	365,818	...	(S)	**7,205	**249	*3,298	(S)	*76,653
22	Minnesota.....	*73,053	...	(S)	**6,043	(S)	**3,078	(S)	*36,135
23	Iowa.....	**40,826	...	(S)	(S)	5	(S)	(S)	(S)
24	Missouri.....	*221,096	...	*342	9	(S)	(S)	(S)	*16,257
25	North Dakota.....	(S)	...	...	...	...	...	...	(S)
26	Nebraska.....	(S)	...	(S)	...	...	...	...	(S)
27	Kansas.....	(S)	...	(S)	1	...	...	...	(S)
28	South.....	4,638,840	...	64,919	*35,053	*114,349	21,729	**10,400	99,128
29	South Atlantic.....	2,015,901	...	29,310	19,708	*32,729	*13,228	(S)	**12,084
30	Delaware.....	(S)	...	4	...	(S)	...	2	...
31	Maryland.....	*82,157	...	532	162	**1,137	(S)	835	(S)
32	District of Columbia.....	...	...	...	...	...	...	...	...
33	Virginia.....	*511,088	...	2,677	**4,229	(S)	1,630	258	**2,445
34	West Virginia.....	363,303	...	4,426	11,992	*20,068	*6,977	4,551	1,480
35	North Carolina.....	*447,749	...	3,908	2,495	(S)	(S)	(S)	(S)
36	South Carolina.....	190,876	...	5,423	121	326	377	...	3,647
37	Georgia.....	*361,785	...	*6,055	709	302	(S)	38	1,120
38	Florida.....	51,490	...	6,285	...	14	...	5	511
39	East South Central.....	1,670,912	...	19,453	(S)	66,403	(S)	*1,314	48,390
40	Kentucky.....	*312,695	...	(S)	(S)	*33,069	(S)	(S)	*1,928
41	Tennessee.....	*437,995	...	**4,569	3,187	*21,456	(S)	*613	12,563
42	Alabama.....	441,924	...	5,612	927	4,047	1,416	8	8,617
43	Mississippi.....	478,298	...	5,519	1,683	7,831	266	355	25,282
44	West South Central.....	1,152,027	...	*16,156	(S)	(S)	5,695	1,193	*38,654
45	Arkansas.....	*463,218	...	(S)	(S)	*1,805	12	74	15,017
46	Louisiana.....	387,292	...	9,597	314	*2,815	198	1,107	15,381
47	Oklahoma.....	(S)	...	**1,072	55	...	*163	1	**2,589
48	Texas.....	*276,183	...	**1,572	(S)	(S)	*5,322	(S)	(S)
49	West <sup>1</sup> .....	47,078	18,894	...	...	...	...	...	15,663
50	Mountain <sup>1</sup> .....	13,107	...	...	...	...	...	...	12,062
51	Montana.....	9,203	...	...	...	...	...	...	9,203
52	Idaho.....	1,282	...	...	...	...	...	...	772
53	Wyoming.....	6	...	...	...	...	...	...	...
54	Colorado.....	1,567	...	...	...	...	...	...	1,237
55	New Mexico.....	...	...	...	...	...	...	...	...
56	Arizona.....	...	...	...	...	...	...	...	...
57	Utah.....	899	...	...	...	...	...	...	700
58	Nevada.....	...	...	...	...	...	...	...	...
59	South Dakota.....	150	...	...	...	...	...	...	150
60	Pacific.....	33,971	18,894	...	...	...	...	...	3,601
61	Washington.....	10,083	5,091	...	...	...	...	...	66
62	Oregon.....	21,154	12,403	...	...	...	...	...	3,335
63	California.....	2,734	1,400	...	...	...	...	...	200

Note: Sampling variations - The data shown above, for all Eastern States, are based in part on a representative sample of sawmills. Thus the number of sawmills and the production of lumber reported are estimates which may vary from the figures which would be obtained from a complete census. Sampling variations have been computed for all States and Divisions affected. These standard errors, expressed in percent, show that the chances are approximately two out of three: that the unstarred figures do not vary from the three figures by more than 5 percent; the one-starred figures do not vary by more than 10 percent; and the two-starred figures do not vary by more than 15 percent. Figures with standard errors of more than 15 percent have been suppressed and are indicated by an (S).

## LUMBER AND TIMBER BASIC PRODUCTS

24A-19

HARDWOOD LUMBER, BY SPECIES AND BY GEOGRAPHIC DIVISIONS AND STATES: 1954--Continued  
of board feet, lumber tally)

Hardwood--Continued										
Elm	Gum		Hickory	Maple	Oak	Yellow poplar	Other <sup>2</sup>	Foreign species (except Canadian)		Line no.
	Black and tupelo	Sweet (red and sap)						Mahogany (Khaya and Swietenia)	Other	
178,253	355,148	521,565	111,311	575,344	3,451,493	591,993	306,067	15,115	18,526	1
(S)	*2,613	**1,033	*6,845	212,182	299,299	*32,377	*16,430	8,942	5,384	2
(S)	4	...	498	*63,094	*46,707	**484	**3,808	2,520	2,780	3
102	...	...	...	*10,860	6,168	129	79	...	2,780	4
57	...	...	...	*20,066	(S)	...	*747	...	...	5
(S)	...	...	12	(S)	**9,961	...	1,458	...	...	6
156	2	...	38	**3,736	(S)	64	(S)	2,520	...	7
...	...	...	...	(S)	(S)	...	...	...	...	8
(S)	2	...	448	**964	**10,048	(S)	(S)	...	...	9
(S)	*2,609	**1,033	*6,347	149,088	252,592	*31,893	*12,622	6,422	2,604	10
(S)	31	...	(S)	*89,261	*32,999	**2,059	(S)	112	304	11
(S)	214	(S)	(S)	(S)	**9,985	(S)	(S)	6,201	1,290	12
(S)	2,364	*576	*5,488	*59,704	209,608	**27,885	*9,975	109	1,010	13
104,083	(S)	**3,710	*13,501	227,769	578,173	*22,435	64,771	59	1,473	14
80,985	(S)	**2,569	*12,088	215,383	368,126	*21,260	40,295	59	1,312	15
*17,437	**655	(S)	*5,738	*20,772	107,941	*14,213	10,250	...	...	16
*11,474	(S)	**1,392	(S)	*16,098	*76,952	(S)	12,526	59	1,262	17
*7,192	**224	(S)	(S)	*7,014	**53,879	(S)	*6,010	...	...	18
**27,025	2	7	1,166	*107,627	(S)	**583	8,270	...	...	19
*17,857	...	...	**79	63,872	*76,488	...	3,239	...	50	20
**23,098	(S)	(S)	(S)	*12,386	*210,047	(S)	24,476	...	161	21
(S)	6	...	105	**1,406	*13,023	...	*1,778	...	161	22
(S)	15	(S)	...	(S)	*15,795	24	(S)	...	...	23
**5,443	(S)	(S)	(S)	*6,032	*176,737	(S)	*11,683	...	...	24
...	...	...	...	...	2	...	...	...	...	25
(S)	...	...	8	...	(S)	...	(S)	...	...	26
(S)	...	...	39	*1,069	(S)	...	*8,004	...	...	27
*59,032	349,720	516,822	*90,965	127,968	2,571,771	537,181	223,437	6,084	10,282	28
**5,472	169,774	166,816	**40,751	78,140	994,569	361,175	*79,509	4,063	680	29
(S)	353	**787	...	*176	(S)	*1,442	(S)	...	...	30
25	*454	(S)	*1,340	*1,882	42,104	*19,215	*6,616	163	...	31
...	...	...	...	...	...	...	...	...	...	32
116	*15,852	24,220	(S)	(S)	*300,028	*119,440	13,238	437	...	33
(S)	(S)	(S)	**22,901	37,763	*199,204	36,996	*13,586	500	15	34
417	57,309	**35,830	(S)	10,112	*222,698	*83,445	(S)	...	157	35
1,863	48,726	36,475	1,341	9,110	56,931	*19,627	6,486	382	41	36
(S)	40,019	56,910	(S)	9,949	**152,627	(S)	(S)	...	467	37
1	(S)	6,039	592	102	16,313	8,331	5,685	2,581	...	38
24,674	104,007	*185,734	*44,711	*40,887	853,167	*173,450	81,768	1,489	9,003	39
**856	(S)	(S)	**12,342	(S)	*170,084	**49,653	**9,996	667	22	40
7,430	*8,744	16,364	**15,050	16,017	*249,171	(S)	24,538	288	6,892	41
5,885	42,310	**78,564	*8,744	7,696	207,624	51,008	18,424	61	981	42
*10,503	*48,786	*85,483	8,575	4,930	226,288	(S)	28,810	473	1,108	43
(S)	75,939	164,272	*5,503	*8,941	724,035	2,556	62,160	532	599	44
*8,620	*17,434	**57,688	*2,828	**6,217	*332,803	(S)	14,246	...	289	45
(S)	45,897	69,611	**1,294	1,122	187,248	2,516	36,516	532	310	46
**2,031	(S)	*1,578	(S)	1,299	(S)	5	(S)	...	...	47
5,401	12,434	**35,395	(S)	(S)	*187,659	...	(S)	...	...	48
...	...	...	...	7,425	2,250	...	1,429	30	1,387	49
...	...	...	...	...	555	...	490	...	...	50
...	...	...	...	...	...	...	...	...	...	51
...	...	...	...	...	176	...	334	...	...	52
...	...	...	...	...	...	...	6	...	...	53
...	...	...	...	...	330	...	...	...	...	54
...	...	...	...	...	...	...	...	...	...	55
...	...	...	...	...	...	...	...	...	...	56
...	...	...	...	...	49	...	150	...	...	57
...	...	...	...	...	...	...	...	...	...	58
...	...	...	...	...	...	...	...	...	...	59
...	...	...	...	7,425	1,695	...	939	30	1,387	60
...	...	...	...	2,754	581	...	221	4	1,366	61
...	...	...	...	4,671	3	...	716	26	...	62
...	...	...	...	...	1,111	...	2	...	21	63

<sup>1</sup>South Dakota is included with the Mountain Division because its production is limited to Western species.

<sup>2</sup>Includes sycamore, walnut, chestnut, and hardwoods, not elsewhere classified.



Table 7.--MATERIALS CONSUMED, BY KIND: 1954 AND 1947

Code	Materials	Unit of measure	1954		1947	
			Quantity	Delivered cost (\$1,000)	Quantity	Delivered cost (\$1,000)
	INDUSTRY 2411--LOGGING CAMPS AND CONTRACTORS					
	Materials, parts and supplies, total.....		xxx	256,645	(NA)	(NA)
081111	Stumpage cut (current value).....		xxx	139,807		
241111	Logs and bolts.....	Thousand feet log scale.	160,967	6,765		
970000	All other materials, parts, and supplies, including materials, etc., not specified by kind.....		xxx	110,073		
	INDUSTRY 2421--SAWMILLS AND PLANING MILLS <sup>1</sup>					
	Materials, parts and supplies, total.....		xxx	1,546,422	xxx	884,610
081111	Stumpage cut (current value).....		xxx	284,492	xxx	236,891
241111	Logs and bolts.....	Thousand feet log scale.	13,298,981	543,504	(NA)	247,549
242111	Rough lumber:	Thousand bd. ft.	2,085,422	139,863	(NA)	
242115	Hardwoods.....	do.....	5,282,700	306,225	(NA)	
	Dressed lumber:					
242121	Hardwoods.....		xxx	2,792	xxx	400,170
242125	Softwoods.....		xxx	12,538	xxx	
970000	All other materials, parts, and supplies consumed, including materials, etc., not specified by kind.....		xxx	257,008	xxx	
	INDUSTRY 2422--VENEER MILLS					
	Materials, parts and supplies, total.....		xxx	58,258	xxx	28,728
081111	Stumpage cut (current value).....		xxx	2,536	xxx	3,385
241111	Logs, bolts and unsliced flitches.....	Thousand feet log scale.	622,420	46,686	xxx	21,866
242231	Hardwood veneer (other than container and flat).....	Thousand sq. ft. surface measure.	67,330	2,149	(NA)	
970000	All other materials, parts, and supplies, including materials, etc., not specified by kind.....		xxx	6,887	xxx	3,477
	INDUSTRY 2423--SHINGLE MILLS					
	Materials, parts and supplies, total.....		xxx	17,700	xxx	10,388
081111	Stumpage cut (current value).....		xxx	606	xxx	930
241111	Logs and bolts.....	Thousand feet log scale.	175,882	6,924	(NA)	8,500
970000	All other materials, parts, and supplies, including materials, etc., not specified by kind.....		xxx	10,170	xxx	958
	INDUSTRY 2424--COOPERAGE STOCKS MILLS					
	Materials, parts and supplies, total.....		xxx	14,588	xxx	25,932
081111	Stumpage cut (current value).....		xxx	2,452	xxx	10,464
241111	Logs and bolts.....	Thousand bd. ft. log scale.	84,756	5,131	119,785	9,513
242111	Rough lumber:	Thousand bd. ft.	9,290	980	(NA)	5,955
242115	Hardwoods.....	do.....	5,008	305		
970000	All other materials, parts and supplies consumed including materials, etc., not specified by kind.....		xxx	5,720	xxx	
	INDUSTRY 2425--EXCELSIOR MILLS					
	Materials, parts, containers and supplies, total.....		xxx	4,851	xxx	2,860
241115	Logs and bolts.....	Cords-128 cu. ft roughwood basis	94,329	2,294	135,949	
970000	All other materials and components, parts, containers and supplies consumed including materials, etc., not specified by kind.....		xxx	2,557	xxx	2,860

xxx Not applicable.

NA Not applicable.

<sup>1</sup>Data not strictly comparable. In 1947, only sawmills producing 200 thousand board feet or more of lumber on an annual basis were included in the Census and in 1954 sawmills having one or more paid employees as reported to the Bureau of Old Age and Survivors Insurance were included.

## LUMBER AND TIMBER BASIC PRODUCTS

24A-21

Table 8.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY INDUSTRY SPECIALIZATION AND PRIMARY PRODUCT CLASS SPECIALIZATION, FOR THE UNITED STATES: 1954

(This table presents selected statistics for establishments classified according to their degree of specialization in products primary to the industry. The establishments are classified in two ways: (1) by industry specialization—the degree of specialization in all primary products of the industry; and (2) by product-class specialization—the degree of specialization in the largest product class of the establishment. The degree of "industry specialization" for an establishment represents the ratio of its primary product shipments to its total product shipments, primary and secondary. The degree of "product-class specialization" for an establishment represents the ratio of its largest product class shipments to its total product shipments, primary and secondary. Data are not shown for some industries, product classes, and specialization ranges for a variety of reasons, consequently, detailed figures frequently do not add to the totals. See Introduction for detailed explanation)

Ind. or product class No.	Industry or product class by percent of specialization	Establishments, number	All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
2411	LOGGING CAMPS AND CONTRACTORS (entire industry).....	12,865	75,510	210,625	68,171	115,575	182,295	389,928	343,525	733,417
	Establishments with:									
	90% or more specialization.....	9,139	49,638	138,269	44,259	75,542	118,275	256,184	277,074	533,247
	75-89% specialization.....	61	668	1,690	639	1,186	1,607	2,108	3,168	5,277
	50-74% specialization.....	125	1,224	2,952	1,106	1,983	2,570	5,111	5,649	10,761
	All other <sup>1</sup> .....	3,540	23,978	67,714	22,166	36,862	59,842	126,524	57,633	184,132
2421	SAWMILLS AND PLANING MILLS (entire industry).....	19,778	321,199	906,847	296,070	558,428	781,760	1,502,911	1,744,005	3,247,200
	Establishments with:									
	90% or more specialization.....	16,924	277,870	787,395	256,087	482,484	678,008	1,319,408	1,579,282	2,899,277
	75-89% specialization.....	137	13,755	45,160	12,566	26,899	38,941	67,159	74,518	141,678
	50-74% specialization.....	139	12,023	39,358	10,920	21,777	33,415	63,849	66,768	130,317
	All other <sup>1</sup> .....	2,578	17,549	34,932	16,495	27,267	31,394	52,493	23,436	75,928
24211	Rough lumber and sawed ties:									
	All establishments specializing in product class.	11,074	109,425	258,272	101,765	180,822	228,111	436,123	466,078	902,071
	Establishments with:									
	90% or more specialization.....	9,823	87,983	199,948	82,218	142,861	178,069	343,745	373,282	716,904
	75-89% specialization.....	470	6,329	16,123	5,772	10,847	14,159	25,803	21,681	47,475
	50-74% specialization.....	669	12,108	32,281	11,079	21,687	27,659	51,519	57,001	108,524
	Less than 50% specialization.....	112	3,004	9,919	2,694	5,426	8,223	15,055	14,112	29,168
24212	Dressed lumber, except flooring:									
	All establishments specializing in product class.	2,820	148,768	492,816	136,051	265,414	422,359	822,553	1,022,303	1,845,272
	Establishments with:									
	90% or more specialization.....	1,828	64,544	202,345	59,084	113,777	172,358	347,296	521,613	869,629
	75-89% specialization.....	422	35,671	127,092	32,715	63,250	109,647	213,077	228,500	441,576
	50-74% specialization.....	461	39,279	133,761	35,692	70,401	114,306	220,303	225,395	445,398
	Less than 50% specialization.....	109	9,272	29,617	8,559	17,985	26,047	41,875	46,794	88,669
24213	Hardwood flooring:									
	All establishments specializing in product class.	176	18,496	49,524	17,091	37,779	41,624	77,750	107,215	184,966
	Establishments with:									
	90% or more specialization.....	106	7,915	21,285	7,256	15,765	17,467	34,266	52,435	86,701
	75-89% specialization.....	26	2,690	7,245	2,445	5,398	5,993	10,678	15,157	25,836
	50-74% specialization.....	35	7,417	19,826	6,928	15,596	17,110	31,324	38,246	69,570
	Less than 50% specialization.....	9	473	1,167	459	1,019	1,053	1,481	1,377	2,859
24214	Softwood flooring:									
	All establishments specializing in product class.	33	879	1,954	799	1,617	1,702	3,011	5,842	8,854
	Establishments with:									
	90% or more specialization.....	22	590	1,273	526	997	1,078	1,741	4,455	6,196
24215	Hardwood dimension stock, furniture:									
	All establishments specializing in product class.	107	3,222	8,075	3,005	6,188	6,927	11,160	12,939	24,100
	Establishments with:									
	90% or more specialization.....	72	1,513	3,667	1,406	2,820	3,099	5,389	5,898	11,287
	75-89% specialization.....	10	664	1,830	628	1,352	1,599	2,375	2,945	5,321
	50-74% specialization.....	19	905	2,154	836	1,724	1,819	2,661	3,567	6,229
	Less than 50% specialization.....	6	139	424	134	291	408	734	528	1,262
24216	Hardwood dimension stock, except furniture:									
	All establishments specializing in product class.	154	2,823	7,756	2,518	5,064	6,243	12,146	10,857	23,004
	Establishments with:									
	90% or more specialization.....	117	1,437	3,395	1,320	2,501	2,807	5,688	5,643	11,332
	75-89% specialization.....	14	521	1,718	475	1,043	1,448	3,049	2,346	5,396
24217	Softwood cut stock:									
	All establishments specializing in product class.	56	1,873	7,095	1,742	3,414	6,195	9,717	13,125	22,843
	Establishments with:									
	90% or more specialization.....	34	750	2,418	701	1,202	2,175	3,543	8,584	12,127
	75-89% specialization.....	7	124	469	106	236	387	847	1,209	2,056
24218	Other sawmill and planing mill products:									
	All establishments specializing in product class.	253	2,067	5,157	1,883	3,416	4,484	8,787	8,935	17,722
	Establishments with:									
	90% or more specialization.....	194	1,466	3,816	1,344	2,467	3,348	6,593	5,918	12,512
	75-89% specialization.....	15	116	249	100	166	199	341	625	966
	50-74% specialization.....	31	382	838	346	587	744	1,500	1,835	3,336
	Less than 50% specialization.....	13	102	252	92	194	193	351	556	908

See footnotes at end of table.

## MANUFACTURES—INDUSTRY STATISTICS

Table 8.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY INDUSTRY SPECIALIZATION AND PRIMARY PRODUCT CLASS SPECIALIZATION, FOR THE UNITED STATES: 1954—Continued

Ind. or product class No.	Industry or product class by percent of specialization	Establishments, number	All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
2421	SAWMILLS AND PLANING MILLS—Continued									
24446	Box shok: Fruit, vegetable, industrial:									
	All establishments specializing in product class	29	1,361	4,122	1,260	2,303	3,567	6,059	6,059	12,119
	Establishments with: <sup>2</sup>									
	90% or more specialization.....	11	170	277	164	234	260	278	442	721
	75-89% specialization.....	4	396	1,204	370	669	992	1,938	1,657	3,595
	50-74% specialization.....	8	337	828	307	632	726	1,224	1,339	2,563
	Less than 50% specialization.....	6	458	1,813	419	767	1,588	2,618	2,620	5,239
24110	Logs, bolts and pulpwood: <sup>3</sup>									
	All establishments specializing in product class	299	2,403	6,639	2,136	3,640	5,746	11,774	10,590	22,365
	Establishments with:									
	90% or more specialization.....	136	836	2,294	772	1,308	2,135	4,004	2,949	6,954
	75-89% specialization.....	51	341	702	287	479	569	1,374	1,211	2,585
	50-74% specialization.....	94	429	638	390	610	616	1,306	997	2,303
	Less than 50% specialization.....	18	796	3,005	685	1,242	2,424	5,089	5,432	10,522
2422	VENEER MILLS (entire industry).....	261	12,825	35,453	11,796	23,254	28,464	59,250	61,468	120,718
	Establishments with:									
	90% or more specialization.....	224	9,959	27,072	9,168	17,737	21,801	46,233	48,717	94,951
	75-89% specialization.....	8	793	2,478	707	1,495	1,830	3,338	3,755	7,093
	50-74% specialization.....	24	1,875	5,237	1,736	3,592	4,284	8,837	8,765	17,602
	All other <sup>1</sup> .....	5	197	666	183	430	548	840	230	1,071
24221	Hardwood veneer:									
	All establishments specializing in product class	196	10,506	26,460	9,665	19,240	21,058	42,291	39,014	81,306
	Establishments with:									
	90% or more specialization.....	164	7,907	19,115	7,297	14,249	15,326	30,789	28,330	59,119
	75-89% specialization.....	9	675	2,274	580	1,131	1,582	3,675	3,961	7,637
	50-74% specialization.....	23	1,923	5,070	1,787	3,859	4,149	7,827	6,722	14,549
24222	Softwood veneer:									
	All establishments specializing in product class	47	1,853	7,544	1,694	3,101	6,337	14,845	21,094	35,940

<sup>1</sup>This class includes data for establishments with less than 50 percent specialization in the primary products of the industry and establishments engaged exclusively in contract work defined in the industry. Miscellaneous small statistical adjustments are also included.

<sup>2</sup>These data reflect the activities of establishments specializing in the manufacture of box shok from lumber or logs, bolts and pulpwood but because they are also engaged in sawmilling, they are classified in the Industry 2421 "Sawmills and Planting Mills." (See text for fuller explanation.)

<sup>3</sup>Almost all of the activity in this product class is accounted for by establishments which specialize 90 percent or more in the manufacture of products in this product class.







# Millwork, Plywood, and Prefabricated Structural Wood Products

This report shows 1954 Census of Manufactures statistics for establishments classified in each of the following industries:

Code	Title
2431--	Millwork Plants
2432--	Plywood Plants
2433--	Prefabricated Wood Products

Establishments are classified in these three industries on the basis of the final products shipped, irrespective of the degree of processing involved. Thus, completely integrated plants that produce their rough lumber or veneer and further process this material into millwork, plywood, etc., as well as plants buying the raw material or receiving it through interplant transfer from establishments under the same ownership, are included in these industries.

## 2431--Millwork Plants

This industry comprises establishments primarily engaged in manufacturing wood sash (including storm sash) windows, doors (including combination screen and storm doors), window and door frames, blinds, mantels, panel work, porch work, stairways, cabinet work to be built in, entrances, prefabricated tanks and vats, and similar fabricated millwork from purchased lumber. Planing mills primarily engaged in producing millwork are included in this industry, but planing mills primarily producing standard workings or patterns of lumber (dimension stock, surfaced lumber, ceiling, partitions, siding, matched and shiplapped lumber, and flooring), are classified in Industry 2421, Sawmills and Planing Mills. For a detailed list of primary products of Industry 2431, refer to Table 6A, product codes 2431111 to 2431698.

Establishments primarily engaged in the production of wood combination screen and storm doors, and wood combination screen and storm sash were classified in Industry 2651, Window and Door Screens, in the 1947 Census and 1949-1950 Annual Surveys of Manufactures; and in Industry 2431 in subsequent years. 1947 Census data relating to these establishments have been retabulated to provide comparability with the 1954 data presented for this industry.

In general, the establishments in Industry 2431 do not tend to produce an individual group of products but spread their production over a wide variety of millwork items. Reporting of product detail in the millwork industry often reflected the lack of supporting records to permit the breakdown of the individual products requested. The "undistributed" value (millwork products, not specified by kind), whether taken in the relation to the total of all millwork products or to the more important millwork items is, however, relatively small.

As in previous years, a report was required of a wholesale or retail yard that operated a sizeable millwork plant as a separate department for which separate book records were kept. However, where separate departmental records were not kept, the establishment was classified on the basis of its primary activity, i.e. Census of Business Industries 5211, Retail Lumber Yards; or Industry 5098, Wholesale Lumber and Construction Materials; or in Census of Manufactures Industry 2431, Millwork Plants. The value of millwork produced by wholesale and retail establishments as a secondary activity is relatively insignificant when compared either to the millwork total or to any of the more important millwork items.

The value of shipments of Industry 2431, Millwork Plants, in 1954 totaled \$873 million. This included shipments of primary products (millwork) valued at \$773 million, shipments of secondary products valued at \$90 million, and miscellaneous receipts of \$9 million.

Industry 2431 shipments of millwork (primary products) in 1954 represented 90 percent of its total product shipments (primary and secondary). In 1947, the primary product specialization ratio was also 90 percent. Secondary products shipped by this industry in 1954 consisted mainly of wood household kitchen furniture, \$20 million; window and door screens, \$17 million; dressed lumber, except flooring, \$10 million; nailed wood boxes and box shook, \$6 million; and hardwood plywood, \$6 million.

Industry 2431 shipments of millwork (primary products) in 1954 represented 91 percent of those products valued at \$846 million shipped by all industries. The corresponding coverage ratio in 1947 was 92 percent. Other industries shipping millwork consisted mainly of Industry 2421, Sawmills and Planing Mills, \$37 million; and Industry 2432, Plywood Plants, \$8 million.

## 2432--Plywood Plants

This industry comprises establishments primarily engaged in manufacturing commercial plywood, including technical and industrial grades, from veneer produced in the same establishment or from purchased veneer. Important products of this industry include hardwood plywood, interior and exterior types of softwood plywood, and nonwood face plywood and other plywood type products. Establishments producing plywood which is used in the same establishment in the manufacture of end products such as doors, boxes, and furniture are classified in Industry 2431, Millwork; Industry 2444, Wooden Boxes; Industry Group 251, Household Furniture, respectively. For a more detailed list of primary products of Industry 2432, refer to Table 6A, product codes 2432111 to 2432498.

The value of shipments of Industry 2432, Plywood Plants, in 1954 totaled \$515 million. This included shipments of primary products (plywood and plywood type products) valued at \$478 million, shipments of secondary products valued at \$34 million, and miscellaneous receipts of \$3 million.

Industry 2432 shipments of plywood and plywood type products (primary products) in 1954 represented 93 percent of its total product shipments (primary and secondary). In 1947, this primary product specialization ratio was also 93 percent. Secondary products shipped by Industry 2432 in 1954 consisted mainly of wood doors and wood combination screen-storm doors, \$8 million; rough lumber, \$6 million; softwood veneer, \$6 million; dressed lumber, \$4 million; and hardwood veneer, \$3 million.

Industry 2432 shipments (including interplant transfers) of plywood and plywood type products (primary products) in 1954 represented 95 percent of those products valued at \$505 million shipped for sale or interplant transfer by all industries. The corresponding coverage ratio in 1947 was 96 percent. Other industries shipping plywood or plywood type products consisted mainly of Industry 2421, Sawmills and Planing Mills, \$12 million; Industry 2431, Millwork Plants, \$8 million; and Industry 2422, Veneer Mills, \$3 million.

2433--Prefabricated Wood Products (Full Standard Industrial Classification Title: Prefabricated Wooden Buildings and Structural Members)

This industry comprises establishments primarily engaged in manufacturing prefabricated wooden buildings, ready cut wood buildings or panels, or in producing laminated or fabricated trusses, arches and other structural members of lumber. For a more detailed list of primary products of this industry, refer to Table 6A, product codes 2433111 to 2433371.

Establishments primarily engaged in the installation rather than the manufacture of prefabricated building and equipment e.g., building contractors, erector-dealers, lumber and building materials distributors, etc., are excluded from the Census of Manufactures and are classified in Construction Industries.



The value of shipments of Industry 2433, Prefabricated Wood Products, in 1954 totaled \$224 million. This included shipments of primary products (prefabricated wood products) valued at \$217 million, shipments of secondary products valued at \$2 million, and miscellaneous receipts (mainly contract work on materials owned by others) of \$5 million.

Industry 2433 shipments of prefabricated wood products (primary products) in 1954 represented 99 percent of its total product shipments (primary and secondary). In 1947, the primary product specialization ratio was 93 percent. Secondary products shipped by this industry in 1954 consisted of small quantities

of wood doors, interior trim and other millwork, and dressed lumber. The tendency of this industry to concentrate on the building of assembled units and fabricated sections is clearly evident in the very high specialization ratio reported for 1954.

Industry 2433 shipments of prefabricated wood products (primary products) in 1954 represented 95 percent of those products valued at \$227 million shipped by all industries. The corresponding coverage ratio in 1947 was 96 percent. Other industries shipping prefabricated wood products consisted mainly of Industry 2421, Sawmills and Planing Mills, \$5 million; and Industry 2431, Millwork Plants, \$3 million.

The general statistics (employment, payrolls, value of shipments, cost of materials, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products, and, for that matter, their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (Tables 1-4) with product statistics (Table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in Table 5A which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry made as secondary products by establishments classified in other industries.

Table 1.—GENERAL STATISTICS FOR THE UNITED STATES: 1954 AND EARLIER YEARS  
(For explanation of column captions see Introduction)

Industry and census year	Establishments, number	All employees		Production workers		Value added by manufacture <sup>2</sup> (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments <sup>3</sup> (\$1,000)
		Number <sup>1</sup>	Payroll (\$1,000)	Number <sup>1</sup>	Wages (\$1,000)			
Millwork plants (S.I.C. 2431):								
1954 <sup>4</sup> .....	3,348	68,668	258,198	55,700	188,156	374,518	498,490	873,007
1953 <sup>5</sup> .....	(NA)	70,282	263,683	58,799	201,070	387,971	474,392	862,363
1952 <sup>5</sup> .....	(NA)	69,417	253,754	58,087	191,746	380,750	459,604	840,361
1951 <sup>5</sup> .....	(NA)	73,010	254,669	62,157	195,285	399,656	486,723	886,379
1950 <sup>5</sup> .....	(NA)	74,052	234,497	62,234	178,487	370,215	435,521	805,736
1949 <sup>5</sup> .....	(NA)	62,542	189,350	52,506	142,491	272,367	319,421	591,788
1947 <sup>6</sup> .....	2,381	59,783	162,050	51,901	128,695	266,452	279,730	546,182
1939 <sup>7</sup> .....	2,260	(NA)	(NA)	41,532	47,282	103,380	113,660	217,040
Plywood plants (S.I.C. 2432):								
1954.....	255	39,201	152,301	36,100	133,940	246,250	268,772	515,023
1953 <sup>5</sup> .....	(NA)	39,108	144,920	36,497	128,805	224,184	241,285	465,469
1952.....	(NA)	37,474	141,610	34,879	125,216	198,146	235,620	433,766
1951 <sup>5</sup> .....	(NA)	39,055	139,706	36,460	123,489	243,821	230,987	474,808
1950 <sup>5</sup> .....	(NA)	34,731	114,776	32,302	101,237	212,703	205,420	418,123
1949 <sup>5</sup> .....	(NA)	25,561	75,964	23,624	64,221	116,520	128,024	244,544
1947 <sup>6</sup> .....	163	27,489	73,783	25,325	64,203	149,205	122,854	272,059
1939 <sup>7</sup> .....	98	(NA)	(NA)	13,154	13,112	26,658	22,424	49,082
Prefabricated wood products (S.I.C. 2433):								
1954.....	231	11,547	45,905	9,216	29,125	88,999	135,388	224,388
1947.....	206	10,075	27,879	8,381	20,384	38,695	64,616	103,311
1939 <sup>7</sup> .....	48	(NA)	(NA)	1,748	1,500	3,627	5,171	8,798

\* Revised

NA Not available.

<sup>1</sup>For the period 1949-1954 inclusive, figures are based on employment for the payroll periods ended nearest the 15th of March, May, August and November. For 1947, they represent the average of 12 monthly figures. For earlier years, the production worker average was calculated as in 1947, but the figure for all employees represents the sum of the annual average number of production workers and the number of nonproduction workers reported for one payroll period (usually in October).

<sup>2</sup>Value of products less cost of materials, supplies, fuel, electric energy and contract work. See Introduction, "Value Added by Manufacture."

<sup>3</sup>For 1947-1954, value of shipments; for 1939, value of production. See Introduction, "Value of Shipments."

<sup>4</sup>In this industry, which contains a large number of very small establishments, there is a possibility that some of the small establishments have been misclassified as to industry. This would not affect the statistics other than the number of establishments.

<sup>5</sup>The figures for 1949-1953 inclusive, represent estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period. Estimates with a standard error in excess of 15 percent generally have been omitted from this table.

<sup>6</sup>The figures for 1947, have been revised for comparability with the figures for 1951-1954 by including data for establishments primarily engaged in the manufacture of wood storm doors and storm sash. Value added by manufacture for 1947 on a basis comparable with 1939, 1949, and 1950, which have not been revised, was \$256.4 million.

<sup>7</sup>No comparable figures are available for earlier years.

## MILLWORK, PLYWOOD, AND PREFABRICATED STRUCTURAL WOOD PRODUCTS

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Table 2.—GENERAL STATISTICS BY REGIONS AND STATES: 1954 AND 1947  
(For explanation of column captions see Introduction)

Industry, region, and State <sup>1</sup>	1954											1947	
	Establishments, number		All employees		Production workers			Value added by manufacture	Cost of materials, etc.	Value of shipments	Capital expenditures, new	All employees, number	Value added by manufacture
	Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)		(\$1,000)
Millwork plants (S.I.C. 2431), total.....	3,348	731	68,668	258,198	55,700	113,488	188,156	374,518	498,490	873,007	13,737	59,783	266,452
New England.....	232	35	2,850	10,479	2,248	4,589	7,388	14,944	17,585	32,530	481	2,784	10,507
Massachusetts.....	122	13	1,190	4,427	906	1,845	3,144	6,393	7,666	14,060	148	1,293	4,797
Rhode Island.....	8	4	228	333	176	343	583	1,214	770	1,984	41	197	719
Middle Atlantic.....	542	106	8,013	32,008	6,174	12,651	22,322	45,875	54,651	100,527	1,273	6,399	28,745
New York.....	287	51	4,089	17,009	3,105	6,262	11,416	23,474	27,626	51,460	530	2,899	14,462
New Jersey.....	107	17	1,320	5,549	1,012	2,078	3,680	8,295	12,133	20,429	345	714	3,565
Pennsylvania.....	148	38	2,604	10,029	2,056	4,309	7,226	13,746	14,891	28,638	397	2,786	10,718
East North Central.....	623	144	16,712	65,798	13,326	27,724	46,012	94,702	117,729	212,432	4,774	13,179	59,297
Ohio.....	87	27	1,990	8,195	1,533	2,987	5,083	10,581	11,379	21,961	392	2,443	11,973
Indiana.....	44	8	1,107	4,123	898	1,942	3,061	6,629	8,743	15,372	474	1,193	(D)
Illinois.....	228	42	4,557	19,925	3,427	6,694	13,215	27,631	28,197	55,829	1,339	3,363	16,782
Michigan.....	139	23	2,059	8,146	1,558	3,227	5,476	12,458	20,944	33,403	671	1,867	(D)
Wisconsin.....	125	44	6,997	25,407	5,908	12,872	19,176	37,401	48,464	85,866	1,896	4,313	17,530
West North Central.....	292	78	9,847	37,860	7,571	15,268	26,827	53,516	60,124	113,640	1,514	8,740	36,823
Minnesota.....	90	22	2,941	13,136	2,345	4,545	9,461	20,729	24,339	45,069	716	2,548	10,589
Iowa.....	51	19	4,540	15,744	3,424	6,952	11,210	21,990	25,081	47,071	550	3,628	16,080
Missouri.....	74	18	1,235	4,757	932	1,956	3,222	5,669	5,007	10,676	115	1,420	(D)
South Dakota.....	14	1	122	420	83	172	247	486	453	940	3	426	1,311
Kansas.....	39	9	522	2,037	424	883	1,506	2,568	3,021	5,590	73	365	(D)
South Atlantic.....	388	84	7,113	20,898	5,842	12,400	14,792	28,935	39,694	68,630	893	5,718	19,450
District of Columbia.....	6	2	116	513	84	189	307	450	763	1,214	25	101	445
Virginia.....	37	10	1,236	3,708	1,041	2,143	2,553	4,171	7,973	11,745	49	1,123	4,132
Florida.....	130	20	1,540	5,001	1,207	2,647	3,596	7,637	9,077	16,714	256	1,121	4,011
East South Central.....	150	42	4,053	12,486	3,363	7,076	8,820	20,629	32,620	53,249	616	2,689	9,596
Alabama.....	51	11	1,022	2,831	849	1,859	2,370	6,549	11,213	17,763	259	572	(D)
Mississippi.....	28	9	1,173	3,252	1,044	2,359	2,613	5,256	6,436	11,693	124	508	1,935
West South Central.....	327	58	4,865	15,050	4,022	8,603	11,208	23,307	33,474	56,782	1,401	4,479	16,189
Louisiana.....	61	12	928	2,849	760	1,702	2,061	4,603	5,982	10,586	204	965	3,084
Texas.....	209	36	3,240	9,996	2,699	5,905	7,736	15,551	23,277	38,829	1,150	2,393	8,999
Mountain.....	136	23	2,195	8,709	1,914	3,792	7,151	13,117	21,078	34,196	549	1,935	(D)
Colorado.....	26	3	377	1,455	325	712	1,197	2,098	2,758	4,856	107	401	1,297
New Mexico.....	20	4	313	1,264	281	584	1,115	2,118	4,025	6,144	105	197	(D)
Arizona.....	23	4	399	1,566	328	633	1,216	2,473	4,071	6,545	130	135	(D)
Utah.....	22	4	191	775	159	319	576	978	1,217	2,196	26	275	1,125
Pacific.....	658	161	13,017	54,319	11,237	21,383	43,633	79,489	121,531	201,020	2,232	13,860	(D)
Washington.....	110	41	3,496	13,153	3,092	5,447	10,844	17,341	29,325	45,667	335	5,462	31,351
Oregon.....	94	25	2,077	8,819	1,860	3,661	7,554	14,385	21,223	35,608	446	2,050	(D)
California.....	454	95	7,443	32,346	6,283	12,274	25,234	47,762	71,982	119,744	1,451	6,348	33,394
Plywood plants (S.I.C. 2432), total.....	255	222	39,201	152,301	36,100	74,155	133,940	246,250	268,772	515,023	11,193	27,489	149,205
New England.....	16	16	1,930	5,399	1,789	3,893	4,647	8,273	10,379	18,653	473	1,301	4,769
Vermont.....	9	9	1,021	2,501	937	1,888	2,118	3,886	4,331	8,218	(D)	874	(D)
Middle Atlantic.....	7	4	773	2,254	681	1,294	1,824	2,499	4,534	7,033	42	827	2,953
North Central.....	32	26	4,055	13,446	3,504	7,415	10,340	20,674	23,903	44,578	719	6,309	26,008
Indiana.....	8	7	988	3,117	896	1,872	2,420	3,585	6,504	10,090	43	1,700	8,632
Michigan.....	6	4	861	3,080	695	1,445	2,258	5,995	3,943	9,938	91	1,151	(D)
Wisconsin.....	10	10	1,923	6,091	1,727	3,704	5,017	9,330	11,527	20,857	326	3,131	10,858
South Atlantic.....	67	56	6,882	15,784	6,417	13,382	13,057	24,649	27,215	51,865	1,095	6,082	22,637
North Carolina.....	27	20	2,357	5,281	2,203	4,402	4,449	8,268	9,461	17,730	249	2,373	8,468
South Carolina.....	16	15	1,975	4,181	1,827	3,685	3,397	7,111	7,415	14,527	157	2,567	10,554
Georgia.....	11	11	1,715	4,327	1,618	3,666	3,560	6,257	6,572	12,829	431	802	2,842
Florida.....	3	3	357	839	327	734	660	1,107	1,157	2,264	41	231	(D)
East South Central.....	15	13	1,333	3,297	1,266	2,756	2,903	5,167	5,757	10,925	149	1,660	8,355
Tennessee.....	5	4	331	991	305	642	687	1,387	2,330	3,717	40	(D)	(D)
West South Central.....	8	8	1,056	2,375	987	1,969	2,071	2,816	2,038	4,854	114	827	2,300
Arkansas.....	4	4	443	1,004	424	801	865	1,433	1,006	2,439	67	(D)	(D)
Pacific.....	110	99	23,170	109,745	21,453	43,444	99,096	182,169	194,944	377,114	8,600	10,483	82,183
Washington.....	40	35	8,864	41,015	8,211	15,689	37,128	60,455	72,481	132,936	2,288	6,508	48,347
Oregon.....	47	46	10,823	51,258	10,083	21,096	46,428	91,473	94,009	185,483	3,422	3,561	31,091
California.....	23	18	3,483	17,471	3,158	6,658	15,539	30,241	28,453	58,695	2,888	414	2,745

See footnotes at end of table.

## MANUFACTURES—INDUSTRY STATISTICS

Table 2.—GENERAL STATISTICS BY REGIONS AND STATES: 1954 AND 1947  
(For explanation of column captions see Introduction)

Industry, region, and State	1954											1947	
	Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
	Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
Prefabricated wood products (S.I.C. 2433), total.....	231	111	11,547	45,905	9,216	17,615	29,125	88,999	135,388	224,388	3,681	10,075	38,695
New England.....	11	3	193	638	164	325	526	1,156	1,484	2,641	45	399	1,015
Massachusetts.....	6	2	121	429	101	201	339	938	839	1,378	36	305	435
Middle Atlantic.....	30	19	1,437	6,610	1,118	2,165	3,936	12,714	19,984	32,699	444	1,689	7,541
North Central.....	114	61	6,761	26,924	5,334	10,277	17,589	53,962	83,617	137,579	2,598	3,306	12,435
Indiana.....	17	11	2,878	11,844	2,091	3,920	6,853	20,734	37,525	58,260	1,778	570	(D)
Michigan.....	23	9	673	2,495	637	1,202	2,060	6,845	8,052	12,978	166	242	1,220
Wisconsin.....	8	4	418	1,453	324	690	1,179	3,633	4,485	8,119	76	305	699
Iowa.....	5	3	128	492	107	231	281	978	1,348	2,327	17	163	780
Missouri.....	8	5	206	915	172	337	649	1,492	2,652	4,144	23	(D)	(D)
South Atlantic.....	15	8	858	2,614	717	1,448	1,821	5,102	6,927	12,029	112	1,238	3,848
Florida.....	5	2	178	501	159	303	399	674	1,230	1,905	27	319	844
East South Central.....	4	3	499	1,532	388	663	901	3,456	5,352	8,809	46	204	1,003
West South Central.....	12	5	513	1,834	373	742	1,063	2,301	4,426	6,727	41	1,496	6,025
Mountain.....	4	...	13	41	11	21	33	62	66	129	...	(D)	(D)
Pacific.....	41	12	1,270	5,710	1,108	1,971	3,251	10,243	13,530	23,773	392	(D)	(D)
Washington.....	14	3	184	911	148	282	626	1,772	2,460	4,233	38	418	1,378
Oregon.....	13	4	759	3,281	685	1,157	1,499	4,885	6,344	11,229	284	(D)	(D)
California.....	14	5	326	1,514	274	531	1,125	3,584	4,725	8,310	70	541	2,280

Note: Detailed figures may not add to the totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies.

General statistics for some producing States are not shown separately in the table (see INTRODUCTION "Confidentiality of Data for Individual Companies"). Such States are shown below with the number of establishments in each State for 1954 and, in parentheses, the number of employees or the employment-size range for that State for 1954:

S.I.C. 2431, Millwork Plants: New England—Maine, 21 (250-499); New Hampshire, 27 (500-999); Vermont, 5 (20-99); Connecticut, 49 (250-499); West North Central—North Dakota, 2 (1-19); Nebraska, 22 (250-499); South Atlantic—Delaware, 5 (100-249); Maryland, 38 (500-999); West Virginia, 11 (20-99); North Carolina, 76 (1,000-2,499); South Carolina, 29 (250-499); Georgia, 56 (1,000-2,499); East South Central—Kentucky, 28 (1,000-2,499); Tennessee, 43 (500-999); West South Central—Arkansas, 23 (100-249); Oklahoma, 34 (500-999); Mountain—Montana, 13 (250-499); Idaho, 21 (20-99); Wyoming, 2 (1-19); Nevada, 9 (250-499).

S.I.C. 2432, Plywood Plants: New England—Maine, 4 (500-999); New Hampshire, 3 (250-499); Middle Atlantic—New York, 5 (500-999); New Jersey, 1 (1-19); Pennsylvania, 1 (100-249); North Central—Ohio, 3 (100-249); Illinois, 3 (100-249); Minnesota, 1 (20-99); Kansas, 1 (1-19); South Atlantic—Maryland, 1 (1-19); Virginia, 7 (250-499); West Virginia, 2 (100-249); East South Central—Kentucky, 2 (20-99); Alabama, 3 (250-499); Mississippi, 5 (500-999); West South Central—Louisiana, 2 (250-499); Texas, 2 (100-249).

S.I.C. 2433, Prefabricated Wood Products: New England—Maine, 3 (20-99); Connecticut, 2 (20-99); Middle Atlantic—New York, 15 (500-999); New Jersey, 4 (100-249); Pennsylvania, 11 (500-999); North Central—Ohio, 21 (1,011); Illinois, 16 (500-999); Minnesota, 9 (500-999); South Dakota, 2 (1-19); Nebraska, 2 (20-99); Kansas, 3 (100-249); South Atlantic—Maryland, 2 (20-99); District of Columbia, 1 (1-19); Virginia, 2 (250-499); North Carolina, 2 (20-99); South Carolina, 1 (1-19); Georgia, 2 (100-249); East South Central—Tennessee, 2 (20-99); Alabama, 1 (250-499); Mississippi, 1 (100-249); West South Central—Arkansas, 3 (20-99); Louisiana, 2 (100-249); Oklahoma, 1 (1-19); Texas, 6 (250-499); Mountain—Montana, 1 (1-19); Idaho, 2 (1-19); Nevada, 1 (1-19).



## MILLWORK, PLYWOOD, AND PREFABRICATED STRUCTURAL WOOD PRODUCTS

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Table 3.—DETAILED STATISTICS FOR THE UNITED STATES: 1954

(For explanation of line captions see Introduction)

Item	Millwork plants (S.I.C. 2431) all estab- lishments	Plywood plants (S.I.C. 2432) all estab- lishments	Prefabricated wood products (S.I.C. 2433) all estab- lishments
Primary product specialization ratio <sup>1</sup> .....	90	93	99
Coverage ratio <sup>2</sup> .....	91	95	95
Number of establishments, total.....	3,348	255	231
With 1-19 employees.....	2,617	33	120
With 20-99 employees.....	611	76	85
With 100 employees and over.....	120	146	26
All employees:			
Number (average for year).....	68,668	39,201	11,547
Payroll.....\$1,000..	258,198	152,301	45,905
Production workers:			
Number (average for year).....	55,700	36,100	9,216
Man-hours.....1,000..	113,428	74,155	17,615
Wages.....\$1,000..	188,156	133,940	29,125
Value added by manufacture.....do..	374,518	246,250	88,999
Cost of materials, etc.....do..	498,490	268,772	135,388
Value of shipments.....do..	873,007	515,023	224,388
Value added by resales.....do..	28,202	813	1,596
Cost of products bought and resold.....do..	110,050	15,025	19,473
Sales of products bought and resold.....do..	138,252	15,838	21,069
Total inventories, beginning of year.....do..	157,401	63,311	25,258
Total inventories, end of year.....do..	167,344	62,654	27,571
Capital expenditures, new.....do..	13,737	11,193	3,681
Number of employees for selected months:			
March.....	64,923	39,953	9,231
May.....	67,195	40,166	11,386
August.....	70,557	34,050	13,502
November.....	71,997	42,634	12,068
Cost of materials, fuel, electricity and contract work, total.....\$1,000..	498,490	268,772	135,388
Materials, parts, containers, and supplies consumed.....do..	487,963	261,662	132,610
Fuels consumed, total.....do..	1,884	1,899	338
Bituminous coal and anthracite:			
Quantity.....1,000 short tons..	64	28	6
Value.....\$1,000..	683	205	71
Coke:			
Quantity.....1,000 short tons..	( <sup>3</sup> )	( <sup>3</sup> )	...
Value.....\$1,000..	5	( <sup>4</sup> )	...
Fuel oil:			
Quantity.....1,000 barrels..	135	198	30
Value.....\$1,000..	584	589	143
Gas:			
Quantity.....million cubic feet..	1,065	379	212
Value.....\$1,000..	289	149	43
Other fuels:			
Value.....do..	323	952	81
Electric energy:			
Purchased:			
Quantity.....million kwh..	299	371	45
Cost.....\$1,000..	5,011	3,590	706
Generated.....million kwh..	24	133	( <sup>5</sup> )
Sold:			
Quantity.....do..	( <sup>5</sup> )	1	...
Value.....\$1,000..	( <sup>4</sup> )	9	...
Cost of contract work.....do..	3,632	1,621	1,734
Manufacturers' inventories:			
Beginning of year, total.....do..	157,401	63,311	25,258
Finished products.....do..	44,568	16,436	3,577
Work-in-process.....do..	28,970	10,137	3,605
Materials, supplies, fuel, etc.....do..	83,863	36,738	18,076
End of year, total.....do..	167,344	62,654	27,571
Finished products.....do..	48,475	15,299	2,811
Work-in-process.....do..	30,814	8,853	4,305
Materials, supplies, fuel, etc.....do..	88,056	38,502	20,455
Expenditures for plant and equipment, total.....do..	15,038	12,440	4,002
Capital expenditures, new.....do..	13,737	11,193	3,681
New structures and additions to plants.....do..	5,133	2,294	1,648
New machinery and equipment.....do..	8,604	8,899	2,033
Expenditures for used plant and equipment.....do..	1,301	1,247	( <sup>6</sup> )
Horsepower rating of power equipment at end of 1954:			
Horsepower of prime movers and electric motors driven by purchased energy, total.....1,000 hp..	362	286	42
Engines, etc., driving electric generators.....do..	24	59	1
Engines, etc., not driving electric generators.....do..	10	32	15
Electric motors driven by purchased energy.....do..	328	195	26
Electric motors driven by energy generated at the establishment.....do..	23	38	( <sup>7</sup> )

Note: Detailed figures may not add to the totals because of independent rounding. <sup>1</sup>The specialization ratio compares the given industry's shipments of its primary products to its total shipments of all products. (The primary products are listed in Tables 5B and 6A; the first 4-digits of the product code represent the industry code to which the product is primary.) <sup>2</sup>The coverage ratio measures the extent to which the total shipments of products primary to the given industry are shipped by establishments classified in that industry. <sup>3</sup>Less than 500 tons. <sup>4</sup>Less than \$5,000. <sup>5</sup>Less than 500 thousand kwh. <sup>6</sup>Less than \$500 thousand. <sup>7</sup>Less than 500 hp.

## MANUFACTURES—INDUSTRY STATISTICS

Table 4.--SELECTED STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR THE UNITED STATES: 1954

(Value figures in thousands of dollars. For explanation of line captions see Introduction. Data which cannot be shown without disclosing information for individual companies have been combined with figures for other size classes. A (D) appears in the column where the figure has been omitted and the combined figure is underlined and shown in the size-class to the left)

Ind. code	Industry and item	Total, all establishments	Establishments with an average of—									
			1-4 em- ployees	5-9 em- ployees	10-19 em- ployees	20-49 em- ployees	50-99 em- ployees	100-249 employees	250-499 employees	500-999 employees	1,000-2,499 employees	2,500 employees and over
2431	Millwork plants:											
	Number of establishments..	3,348	1,594	567	456	438	173	87	25	6	2	...
	Number of employees.....	68,668	3,784	3,978	6,430	13,989	12,070	12,956	9,114	<u>6,345</u>	(D)	...
	Value added by manufacture	374,518	21,466	21,944	35,771	73,529	64,107	72,831	47,717	<u>37,150</u>	(D)	...
2432	Plywood plants:											
	Number of establishments..	255	9	12	12	31	45	99	38	9	...	...
	Number of employees.....	39,201	28	87	160	1,053	3,443	16,000	12,679	5,748	...	...
	Value added by manufacture	246,250	149	540	749	6,121	16,001	94,525	88,460	39,702	...	...
2.33	Prefabricated wood products:											
	Number of establishments..	231	52	28	40	53	32	20	3	2	1	...
	Number of employees.....	11,547	124	205	578	1,665	2,229	2,804	1,069	<u>2,869</u>	(D)	...
	Value added by manufacture	88,999	633	1,231	3,770	12,698	17,733	24,273	8,145	<u>20,511</u>	(D)	...

Note: Detailed figures may not add to the totals because of independent rounding.

Table 5A.—INDUSTRY-PRODUCT ANALYSIS—SUMMARY OF INDUSTRY AND PRIMARY PRODUCT SHIPMENTS, SPECIALIZATION RATIOS AND COVERAGE RATIOS FOR THE UNITED STATES: 1954 AND 1947

Industry code	Industry and census year	Value of shipments					Value of primary products shipped			
		Total	Primary products	Secondary products	Miscel- laneous receipts	Primary product speciali- zation ratio <sup>1</sup>	Total (made in all industries)	Made in this industry	Made in other industries	Coverage ratio <sup>2</sup>
Col. B Col. B+C (Percent)	Col. G Col. F (Percent)									
(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)		
2431	Millwork plants.....1954...	873,007	773,400	30,446	9,161	90	846,413	773,400	73,013	91
	.....1947...	546,182	483,017	55,391	7,774	90	525,137	483,017	42,120	92
2432	Plywood plants.....1954...	515,023	477,908	34,189	2,926	93	504,725	477,908	26,817	95
	.....1947...	272,059	252,208	18,494	1,357	93	262,949	252,208	10,741	96
2433	Prefabricated wood products.....1954...	224,388	217,008	2,555	4,825	99	227,298	217,008	10,290	95
	.....1947...	103,311	95,271	6,750	1,290	93	99,106	95,271	3,835	96

<sup>1</sup>The specialization ratio compares the given industry's shipments of its primary products to its total shipments of all products. (The primary products are listed in Tables 5B and 6A; the first 4-digits of the product code represent the industry code to which the product is primary.)

<sup>2</sup>The coverage ratio measures the extent to which the total shipments of products primary to the given industry are shipped by establishments classified in that industry.

## MILLWORK, PLYWOOD, AND PREFABRICATED STRUCTURAL WOOD PRODUCTS

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Table 5B.—INDUSTRY-PRODUCT ANALYSIS—SHIPMENTS BY PRODUCT CLASS AND INDUSTRY, FOR THE UNITED STATES: 1954

(In thousands of dollars. Each column shows for the industry listed in the column heading, the value of shipments divided between millwork, plywood, prefabricated structural wood products, other products, and miscellaneous receipts. Each figure represents the amount of the product class shown at the left shipped by the industry listed at the top of the column. The first four digits of the product class codes at the left represent the codes of the industries to which they are primary. All other product classes in a column represent products secondary to the specified industry)

Prod. class code	Class of products and miscellaneous receipts	Millwork plants (S.I.C. 2431)	Plywood plants (S.I.C. 2432)	Prefabricated wood products (S.I.C. 2433)	Sawmills and planing mills (S.I.C. 2421)	Other industries	All industries
	Total shipments and receipts of the industry.....	873,007	515,023	224,388	xxx	xxx	xxx
243	Millwork, plywood, and prefabricated structural wood products.....	783,905	486,469	218,149	55,056	34,857	1,578,436
24311	Wood windows and units, and storm and sash.....	148,768	(D)	(D)	844	4,616	154,349
24312	Window and door frames, wood.....	67,712	...	( <sup>1</sup> )	7,134	1,430	76,329
24313	Wood doors and wood combination screen-storm doors...	241,623	8,299	277	728	7,000	257,927
24314	Cabinetwork, to be built-in.....	80,841	...	101	1,328	2,586	84,856
24315	Interior trim and molding, wood.....	104,254	( <sup>1</sup> )	288	24,091	3,121	131,766
24316	Other millwork products.....	75,473	(D)	( <sup>1</sup> )	3,043	5,322	84,045
24310	Millwork products, not specified by kind.....	54,729	( <sup>1</sup> )	( <sup>1</sup> )	(D)	1,948	57,141
24321	Hardwood plywood.....	6,136	131,160	...	4,085	4,312	145,693
24322	Softwood plywood, interior type.....	(D)	240,867	(D)	6,633	82	247,841
24323	Softwood plywood, exterior type.....	( <sup>1</sup> )	86,542	...	705	...	87,266
24324	Nonwood face plywood and veneer, composite boards....	(D)	19,339	(D)	(D)	2,222	23,925
24331	Fabricated structural framing and wood laminates....	976	...	25,929	4,357	1,058	32,320
24332	Prefabricated buildings, wood.....	568	...	171,913	795	812	174,088
24333	Ready-out wood buildings.....	1,376	...	19,166	...	348	20,890
	Other products.....	79,941	25,628	1,414	xxx	xxx	xxx
24211	Rough lumber and sawed ties.....	468	6,485	( <sup>1</sup> )	xxx	xxx	xxx
24212	Dressed lumber, except flooring.....	9,831	4,207	(D)	xxx	xxx	xxx
24222	Softwood veneer.....	...	6,044	...	xxx	xxx	xxx
24441	Nailed or lock-corner boxes made from lumber.....	3,288	...	(D)	xxx	xxx	xxx
24994	Other wood products.....	1,788	2,946	(D)	xxx	xxx	xxx
25114	Kitchen furniture, household, wood.....	20,479	...	...	xxx	xxx	xxx
25610	Window and door screens and weatherstrip.....	16,870	750	xxx	xxx	xxx	xxx
34294	Builders' hardware.....	3,076	...	...	xxx	xxx	xxx
	Other secondary products.....	24,141	5,196	516	xxx	xxx	xxx
	Miscellaneous receipts.....	9,161	2,926	4,825	xxx	xxx	xxx
	Contract and commission work.....	2,685	536	2,903	xxx	xxx	xxx
	Scrap and salable refuse.....	2,608	2,371	153	xxx	xxx	xxx
	Installation work by manufacturing plant employees...	2,950	( <sup>1</sup> )	1,668	xxx	xxx	xxx
	Other.....	918	( <sup>1</sup> )	101	xxx	xxx	xxx

xxx Not applicable.

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>Less than \$100 thousand.

<sup>2</sup>Of this figure 32 percent consists of the following product classes: 24217, Softwood cut stock; 24446, Box shook-fruit, vegetable, industrial; 3442, Metal doors, sash and trim.



## MANUFACTURES—INDUSTRY STATISTICS

Table 6A.--QUANTITY AND VALUE OF PRODUCTS SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, FOR THE UNITED STATES: 1954 AND 1947

Product code	Product	Unit of quantity	Total shipments including interplant transfers			
			1954		1947	
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
2431---	Millwork, total.....		xxx	846,413	xxx	1,525,137
24311	Wood windows, including window units, sash, and combination screen and storm sash--excluding window screens.....		xxx	154,349	xxx	94,500
	Sash, other than storm sash:					
2431111	Knock-down, quantity reported.....	Thousands.....	4,740	5,817	36,922	63,309
	Knock-down, quantity not reported.....	Thousands.....	xxx	1,953		
2431113	Open, quantity reported.....	Thousands.....	7,479	12,713		
	Open, quantity not reported.....	Thousands.....	xxx	4,271		
2431115	Glazed, quantity reported.....	Thousands.....	6,972	21,715		
	Glazed, quantity not reported.....	Thousands.....	xxx	5,309		
2431131	Window units (including awning type):					
	Quantity reported.....	Thousands.....	5,770	76,609	2,079	19,599
	Quantity not reported.....	Thousands.....	xxx	12,915		
2431151	Combination screen and storm sash:					
	Quantity reported.....	Thousands.....	478	3,654	3,928	11,592
	Quantity not reported.....	Thousands.....	xxx	1,658		
2431171	Storm sash:					
	Quantity reported.....	Thousands.....	1,961	6,414	10,090	59,777
	Quantity not reported.....	Thousands.....	xxx	1,321		
2431211	Window and door frames, wood (including cellar and barn window and door frames):					
	Quantity reported.....	Thousands.....	9,933	57,094	144,360	2100,376
	Quantity not reported.....	Thousands.....	xxx	19,235		
24313	Doors, wood including combination screen and storm doors--excluding screen doors.....		xxx	257,927	xxx	144,360
	Doors, wood (including doors shipped in door units):					
	General construction, interior and exterior:					
	Panel type (including french doors):					
2431311	Douglas-fir.....	Thousands.....	4,206	25,243	214,178	2100,376
2431313	Western pines.....	Thousands.....	1,996	21,964		
2431315	Other softwoods.....	Thousands.....	(NA)	1,613		
2431317	Hardwoods.....	Thousands.....	(NA)	2,730		
	Flush type:					
	Hollow core:					
2431331	Softwood faces.....	Thousands.....	1,834	12,790	1,173	10,989
2431333	Hardwood faces.....	Thousands.....	12,188	85,312		
2431335	Nonwood faces.....	Thousands.....	(NA)	3,157	545	22,000
	Solid core:					
2431341	Softwood faces.....	Thousands.....	(NA)	3,331	2,289	10,995
2431343	Hardwood faces.....	Thousands.....	1,384	26,330		
2431345	Nonwood faces.....	Thousands.....	(NA)	190	xxx	45,942
2431351	Combination screen and storm doors, wood.....	Thousands of openings.....	1,389	15,378		
2431361	Garage doors, wood.....	Thousands of openings.....	761	40,039	xxx	10,295
2431371	Other doors, wood (including storm, summer or louvre, and toilet doors) <sup>3</sup> .....	Thousands.....	(NA)	19,850		
2431411	Cabinetwork, to be built in (such as panels, drawers, etc., to be built into kitchen cabinets, base units, broom closets, medicine cabinets, vegetable bins, mantels, china cases, etc.), excluding complete cabinets.....		xxx	484,856	xxx	447,213
24315	Finished wood moulding (including window and door trim--excluding picture frames).....		(NA)	131,766	(NA)	69,870
	Softwood, quantity reported.....	Thousand bd. ft. lbr. cons.....	383,928	91,759	(NA)	69,870
	Softwood, quantity not reported.....	Thousands.....	(NA)	21,612		
2431551	Hardwood.....	Thousands.....	(NA)	18,395	xxx	10,504
24316	Other millwork products.....		xxx	84,045		
2431611	Tanks and vats, wooden, except coopered.....		xxx	7,218	xxx	8,612
	Stairwork (including treads, risers, ballusters, brackets, crooks, newels, rails, etc.):					
2431621	Softwood.....	Thousand bd. ft. lbr. cons.....	(NA)	3,212	xxx	16,531
2431625	Hardwood.....	Thousands.....	(NA)	6,491		
2431631	Exterior millwork (including porch columns, porch rails and newels, trellises, outside blinds, etc.).....		xxx	10,061	xxx	63,475
2431651	Other millwork products, including exterior entrances.....		xxx	57,063		
2431698	Millwork products not specified by kind <sup>6</sup> .....		xxx	57,141	xxx	63,475

For footnotes see end of table.

## MILLWORK, PLYWOOD, AND PREFABRICATED STRUCTURAL WOOD PRODUCTS

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Table 6A.--QUANTITY AND VALUE OF PRODUCTS SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, FOR THE UNITED STATES: 1954 AND 1947--Continued

Product code	Product	Unit of quantity	Total shipments including interplant transfers			
			1954		1947	
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
2432---	Primary products of the plywood industry, total <sup>7</sup> .....		xxx	504,725	xxx	262,949
24321	Hardwood plywood.....		912,387	145,693	857,981	123,327
2432111	Veneer core: Technical type and Type I waterproof.....	Thousand sq. ft. surface measure.				
2432115	Type II, moisture resistant.....	...do.....	49,073	8,416	738,425	117,124
2432117	Type III, dry bond.....	...do.....	649,827	102,145		
		...do.....	45,352	5,627		
2432131	Lumber core: Technical type and Type I waterproof.....	...do.....	1,643	801		
2432135	Type II, moisture resistant.....	...do.....	60,721	21,905	1,017,321	78,334
2432137	Type III, dry bond.....	...do.....	3,470	1,247		
2432151	Container and packaging type.....	...do.....	102,301	5,552	119,556	6,203
24322	Softwood plywood, interior type.....	Thousand sq. ft. 3/8" basis.....	3,071,060	247,841	1,017,321	78,334
2432211	Douglas-fir interior type.....	...do.....	2,966,319	235,062	1,017,321	78,334
2432298	Other softwood plywood interior type.....	...do.....	104,741	12,779		
24323	Softwood plywood, exterior type.....	...do.....	903,317	87,266	574,313	51,792
2432311	Douglas-fir exterior type.....	...do.....	892,273	85,715	574,313	51,792
2432398	Other softwood plywood exterior type.....	...do.....	11,044	15,515		
24324	Nonwood face plywood and other plywood type products.....		xxx	23,925	xxx	9,496
2432411	Nonwood face plywood: Hardwood plywood base.....	Thousand sq. ft. surface measure.				
2432415	Softwood plywood base.....	...do.....	3,524	2,333	(NA)	9,496
	Paper or cloth faced and/or backed single ply veneer:		13,093	3,353		
2432431	Hardwood veneer base.....	...do.....	20,812	1,348		
2432435	Softwood veneer base.....	...do.....	12,380	400		
2432498	Other plywood type products (including laminated panels, blocks of wood, veneer hardboards, and composite boards manufactured from waste or rough round wood by any of the "dry processes").....		xxx	16,491		
2433---	Prefabricated wood products, total <sup>8</sup> .....		xxx	227,298	xxx	99,106
24331	Fabricated structural framing and wood laminates.....		xxx	32,320	xxx	10,616
2433111	Marine laminates.....	Thousand bd. ft. 1br. cons.....	1,899	904	(NA)	10,616
2433151	Fabricated framing for barns and other large farm buildings (including both sawn and glue laminated lumber).....	...do.....	6,406	1,798		
	Fabricated structural elements and framing for bridges, buildings (other than farm) and other structures:					
2433171	Of glue laminated lumber.....	...do.....	31,420	9,894		
2433173	Of sawn lumber.....	...do.....	41,689	6,479	13,245	72,995
2433175	Of a combination of glued laminated and sawn lumber.....	...do.....	45,676	13,245		
24332	Prefabricated buildings, wood.....		xxx	174,088	xxx	60,948
2433211	Dwellings <sup>9</sup> .....	Number.....	57,711	164,276	24,140	1,742
2433231	Garages.....	...do.....	5,426	3,055	4,815	4,311
2433251	Farm buildings (livestock shelters, etc.).....	...do.....	7,548	3,285	512,650	5,994
2433298	Other.....	...do.....	5,623	3,472	(NA)	
24333	Ready cut wood buildings and panels or sections for prefabricated buildings.....		xxx	20,890	xxx	15,495
2433311	Ready-cut buildings:					
2433321	Dwellings.....	Number.....	5,212	16,062	53,225	9,153
2433321	Garages.....	...do.....	499	313	3,407	1,068
2433331	Farm buildings (livestock shelters, etc.).....	...do.....	757	288	5750	963
2433351	Other.....	...do.....	1,156	621		
2433371	Panels or sections for prefabricated buildings <sup>8</sup> .....	...do.....	33,790	3,601	(NA)	4,311

xxx Not applicable.

NA Not available.

<sup>7</sup>Includes \$42,180 thousand transferred from Industry 2561 (see text on Industry 2431).<sup>8</sup>Includes both panel type and flush type doors, reported as follows (all figures in thousands): Douglas-fir, quantity 7684, value 44,579; western pines, quantity 4550, value 32,483; other softwoods, quantity 1091, value 11,010; and hardwoods, quantity 853, value 12,304.<sup>9</sup>Includes all types of doors not listed ranging from large industrial doors to doors of very small dimensions.<sup>8</sup>Direct comparisons of 1954-1947 are not possible for this product line, since in 1954 shipments of cabinets to be combined with other units to form a built-in unit were treated as products primary to the Wood Household Furniture (Not Upholstered) Industry, product code 2511411.<sup>9</sup>10-15 percent estimated.<sup>7</sup>Largely accounted for by small establishments that were not asked to report a breakdown of total shipments.<sup>8</sup>Does not include the value of production of plywood made in consuming plants, e.g. those primarily engaged in the manufacture of doors, boxes and furniture (see text for definition of Industry 2432).<sup>9</sup>Does not include the shipments of establishments primarily engaged in the installation or sale of prefabricated dwellings or sections thereof; accordingly, prefabricated dwellings or sections shipped by building contractors, erector-dealers and distributors of lumber, millwork and other building materials are excluded from these totals.

## MANUFACTURES—INDUSTRY STATISTICS

Table 6B.--VALUE OF PRODUCT CLASSES SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, BY DIVISIONS AND STATES FOR 1954, AND UNITED STATES TOTALS FOR EARLIER YEARS

(In thousands of dollars. Statistics are shown for selected product classes which are economically significant and production of which is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (Table 2) and they are not miscellaneous or "not specified by type" classes. For each product class, States are listed only if the value of shipments is more than \$1 million and the figure does not disclose individual company information. Additional States which had shipments of more than \$1 million of the individual product classes are listed in footnote 1.)

Product class, region, and State <sup>1</sup>	Value of shipments	Product class, region, and State <sup>1</sup>	Value of shipments	Product class, region, and State <sup>1</sup>	Value of shipments
<u>Wood windows and units, and storm sash (24311)</u>		<u>Window and door frames, wood (24312)--Continued</u>		<u>Wood doors &amp; wood combination screen-storm doors (24313)--Continued</u>	
1954 United States, total.....	154,349	West North Central.....	7,074	Pacific.....	68,224
1947 United States, total.....	94,500	Minnesota.....	1,555	Washington.....	24,235
1954		Iowa.....	3,633	Oregon.....	13,645
New England.....	6,647	Missouri.....	1,306	California.....	30,343
New Hampshire.....	1,841	South Atlantic.....	5,560	Cabinetwork, to be built-in (24314)	
Massachusetts.....	2,388	North Carolina.....	1,237	1954 United States, total.....	284,856
Connecticut.....	1,384	Florida.....	1,596	1947 United States, total.....	247,213
Middle Atlantic.....	16,766	East South Central.....	1,803	1954	
New York.....	6,352	West South Central.....	6,923	New England.....	4,330
New Jersey.....	7,597	Texas.....	4,804	Massachusetts.....	2,499
Pennsylvania.....	2,818	Mountain.....	4,025	Middle Atlantic.....	13,423
East North Central.....	36,131	Pacific.....	26,650	New York.....	8,626
Ohio.....	9,632	Washington.....	9,887	New Jersey.....	1,648
Illinois.....	7,990	Oregon.....	3,846	Pennsylvania.....	3,149
Michigan.....	5,328	California.....	12,916	East North Central.....	16,704
Wisconsin.....	12,558	Wood doors & wood combination screen-storm doors (24313)		Ohio.....	1,753
West North Central.....	48,917	1954 United States, total.....	257,927	Indiana.....	3,162
Minnesota.....	27,014	1947 United States, total.....	144,360	Illinois.....	6,176
Iowa.....	16,551	1954		Michigan.....	3,952
Missouri.....	2,243	New England.....	4,385	Wisconsin.....	1,660
Nebraska.....	1,579	New Hampshire.....	2,526	West North Central.....	7,484
Kansas.....	1,352	Massachusetts.....	1,298	Minnesota.....	2,079
South Atlantic.....	9,947	Middle Atlantic.....	20,801	Iowa.....	1,326
Maryland.....	1,067	New York.....	6,384	Missouri.....	1,986
Virginia.....	3,759	New Jersey.....	2,231	Kansas.....	1,318
North Carolina.....	1,664	Pennsylvania.....	12,185	South Atlantic.....	11,124
Florida.....	1,656	East North Central.....	88,026	Maryland.....	1,252
East South Central.....	7,447	Ohio.....	3,557	District of Columbia.....	287
Kentucky.....	2,488	Indiana.....	8,358	Virginia.....	1,040
Tennessee.....	1,775	Illinois.....	13,989	North Carolina.....	1,957
Alabama.....	2,068	Michigan.....	17,492	Georgia.....	2,586
Mississippi.....	1,115	Wisconsin.....	44,629	Florida.....	3,669
West South Central.....	9,498	West North Central.....	18,277	East South Central.....	3,155
Louisiana.....	1,467	Minnesota.....	3,312	Kentucky.....	1,718
Oklahoma.....	1,389	Iowa.....	12,576	West South Central.....	3,874
Texas.....	5,677	Missouri.....	1,159	Texas.....	2,696
Mountain.....	4,588	South Atlantic.....	14,947	Mountain.....	3,216
Montana.....	1,389	Maryland.....	3,123	Arizona.....	1,783
Pacific.....	14,042	Virginia.....	1,859	Pacific.....	21,476
Washington.....	3,485	North Carolina.....	3,314	Washington.....	2,765
California.....	9,566	Florida.....	2,457	Oregon.....	1,710
<u>Window and door frames, wood (24312)</u>		East South Central.....	26,609	California.....	17,001
1954 United States, total.....	76,329	Tennessee.....	1,015	<u>Interior trim and molding, wood (24315)</u>	
1947 United States, total.....	59,777	Alabama.....	11,207	1954 United States, total.....	131,766
1954		Mississippi.....	6,747	1947 United States, total.....	69,870
New England.....	2,057	West South Central.....	14,637	1954	
Middle Atlantic.....	5,879	Arkansas.....	1,759	New England.....	3,495
New York.....	4,071	Louisiana.....	3,449	Massachusetts.....	1,341
Pennsylvania.....	1,132	Oklahoma.....	1,312	Middle Atlantic.....	9,682
East North Central.....	16,348	Texas.....	8,117	New York.....	6,604
Illinois.....	5,359	Mountain.....	1,479	New Jersey.....	1,664
Michigan.....	1,668			Pennsylvania.....	1,414
Wisconsin.....	8,750				

See footnotes at end of table.



## MILLWORK, PLYWOOD, AND PREFABRICATED STRUCTURAL WOOD PRODUCTS

24B-11

Table 6B.--VALUE OF PRODUCT CLASSES SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, BY DIVISION AND STATES FOR 1954, AND UNITED STATES TOTALS FOR EARLIER YEARS--Continued

Product class, region, and State <sup>1</sup>	Value of shipments	Product class, region, and State <sup>1</sup>	Value of shipments	Product class, region, and State <sup>1</sup>	Value of shipments
<u>Interior trim and molding, wood (24315)--Continued</u>		<u>Other millwork products (24316)--Continued</u>		<u>Hardwood plywood (24321)--Continued</u>	
East North Central.....	15,142	West North Central.....	5,951	West South Central.....	4,809
Ohio.....	1,489	Minnesota.....	1,033	Arkansas.....	2,685
Illinois.....	7,369	Iowa.....	1,913	Pacific.....	17,604
Michigan.....	1,574	Missouri.....	1,746	Washington.....	9,834
Wisconsin.....	4,018	South Atlantic.....	9,815	Oregon.....	6,208
West North Central.....	5,765	Maryland.....	1,430	California.....	1,561
Minnesota.....	1,898	Virginia.....	1,733	<u>Softwood plywood, interior type (24322)</u>	
Iowa.....	1,824	North Carolina.....	1,026	1954 United States, total.....	247,841
South Atlantic.....	7,208	Georgia.....	2,211	1947 United States, total.....	78,334
Virginia.....	1,224	Florida.....	2,948	1954	
North Carolina.....	1,776	East South Central.....	4,446	Pacific.....	244,572
South Carolina.....	1,226	Kentucky.....	1,592	Washington.....	80,051
Florida.....	1,682	Tennessee.....	1,045	Oregon.....	127,707
East South Central.....	5,892	Alabama.....	1,132	California.....	37,813
Tennessee.....	2,590	West South Central.....	5,292	<u>Softwood plywood, exterior type (24323)</u>	
Alabama.....	1,807	Louisiana.....	1,388	1954 United States, total.....	87,266
Mississippi.....	1,122	Oklahoma.....	1,075	1953 United States, total.....	65,593
West South Central.....	8,474	Texas.....	3,180	1952 United States, total.....	61,881
Arkansas.....	1,478	Mountain.....	1,675	1951 United States, total.....	71,450
Texas.....	5,620	Pacific.....	12,375	1950 United States, total.....	58,401
Mountain.....	12,915	Washington.....	2,277	1947 United States, total.....	51,792
New Mexico.....	4,289	Oregon.....	2,184	1954	
Arizona.....	3,452	California.....	7,913	Pacific.....	87,266
Nevada.....	2,841	Washington.....	2,277	Washington.....	33,897
Pacific.....	62,999	Oregon.....	2,184	Oregon.....	45,063
Washington.....	8,778	California.....	7,913	California.....	8,306
Oregon.....	16,239	<u>Hardwood plywood (24321)</u>		<u>Prefabricated buildings, wood (24332)</u>	
California.....	37,981	1954 United States, total.....	145,693	1954 United States, total.....	174,088
<u>Other millwork products (24316)</u>		1947 United States, total.....	123,327	1947 United States, total.....	72,995
1954 United States, total.....	384,045	1954		1954	
1947 United States, total.....	345,942	Northeast.....	22,921	New England.....	1,950
1954		Vermont.....	8,150	Middle Atlantic.....	27,471
New England.....	6,473	North Central.....	36,411	New York.....	13,304
Massachusetts.....	3,285	Indiana.....	10,199	East North Central.....	97,813
Connecticut.....	1,857	Michigan.....	4,264	Ohio.....	22,794
Middle Atlantic.....	18,397	Wisconsin.....	21,204	Indiana.....	53,695
New York.....	10,847	South Atlantic.....	49,776	Illinois.....	7,740
New Jersey.....	3,167	Virginia.....	3,702	Michigan.....	7,038
Pennsylvania.....	4,362	North Carolina.....	18,316	Wisconsin.....	6,543
East North Central.....	18,831	South Carolina.....	13,414	West North Central.....	16,916
Ohio.....	5,361	Georgia.....	11,124	Minnesota.....	7,018
Illinois.....	5,551	Florida.....	2,252	Iowa.....	2,219
Michigan.....	3,331	East South Central.....	14,126	Missouri.....	4,142
Wisconsin.....	4,335	Tennessee.....	6,395	South Atlantic.....	10,313
		Alabama.....	3,835	East South Central.....	8,809
		Mississippi.....	3,895	West South Central.....	5,405
				Pacific.....	5,414
				Washington.....	3,471
				Oregon.....	1,053

Note: The figures shown for 1950 to 1953 are sample estimates obtained from the Annual Survey of Manufactures for those years. Since the estimates are based on a sample they are subject to sampling variability, that is, they are not the same as figures which would have been obtained if complete censuses had been taken for those years. Measures of the sampling variability (standard errors) of the estimated total value of shipments of each product class are shown in the Annual Survey of Manufactures publications. Also shown are the standard errors of the relative change in shipments between some consecutive Annual Survey years which are the more significant measures when the series is studied for trend.

<sup>1</sup>For the specified product classes, shipments of over \$1 million were reported for the States listed but the exact figures are withheld to avoid disclosure of individual company figures: 24311, Colorado; 24312, Montana, and Nevada; 24313, Delaware and Kentucky; 24315, Maine; 24321, Maine, New Hampshire, New York, Pennsylvania, and Texas; 24322, Idaho; 24332, Massachusetts, New Jersey, Pennsylvania, Kansas, Maryland, Virginia, West Virginia, South Carolina, Tennessee, Alabama, Mississippi, Louisiana, and Texas.

<sup>2</sup>Direct comparisons of 1954-1947 are not possible for this product line, since in 1954 shipments of cabinets to be combined with other units to form a built-in unit were treated as products primary to the Wood Household Furniture (Not Upholstered) Industry, product code 2511411.

<sup>3</sup>In addition to values shown by product class for Industry 2431 shipments of Millwork, not specified by kind, were reported in the value of \$63,475 thousand in 1947 and \$57,141 thousand in 1954.

## MANUFACTURES—INDUSTRY STATISTICS

Table 6C.—QUANTITY OF SELECTED WOOD DOORS SHIPPED, BY DIVISIONS AND STATES: 1954  
(Thousands of doors)

Division and State	Wood doors, general construction, interior and exterior				
	Panel type		Flush type		
	Douglas fir	Western pines	Hollow core		Solid core, hardwood faces
			Softwood faces	Hardwood faces	
United States, total.....	4,341	2,060	1,893	12,576	1,429
Total for which State detail available <sup>1</sup> ....	4,227	1,861	1,662	9,817	1,227
Northeast.....	(2)	(2)	(1)	123	(2)
East North Central.....	(2)	831	535	3,212	776
Indiana.....	(2)	(2)	...	168	(2)
Michigan.....	(2)	(2)	529	1,162	(3)
Wisconsin.....	(2)	689	(2)	1,857	611
West North Central.....	(2)	521	(2)	126	(2)
Iowa.....	(2)	501	(2)	(2)	(2)
South Atlantic.....	(2)	(2)	(2)	1,078	(2)
Florida.....	(2)	...	(2)	199	(2)
East South Central.....	(2)	(2)	(2)	2,131	(2)
Alabama.....	(2)	(2)	(2)	294	...
West South Central.....	(2)	143	(2)	713	(2)
Texas.....	(2)	109	(2)	436	(2)
West.....	4,021	253	982	2,434	113
Washington.....	2,432	(2)	393	800	(2)
Oregon.....	1,311	(2)	330	218	(2)
California.....	266	238	254	1,320	(2)
All other States for which detail was available <sup>4</sup> .	218	324	156	3,363	616

<sup>1</sup>In a number of reports quantitative detail was not supplied by the reporting companies. Since some quantities are missing from the distribution by States, it must be recognized that the State figures shown are not complete but are useful in showing the relative importance of the leading States in each type of door.

<sup>2</sup>Quantity reported was less than 100 thousand.

<sup>3</sup>Quantity reported was more than 100 thousand but exact figures are withheld to avoid disclosure of individual company figures.

<sup>4</sup>States not listed but which showed shipments of more than 100,000 of a particular type of door were as follows: Western pine: Illinois; flush type, hollow core, hardwood face: Kentucky, Mississippi, North Carolina, and Louisiana; and flush type, solid core, hardwood face: Michigan.

Table 6D.--VENEER CORE HARDWOOD PLYWOOD (EXCEPT CONTAINER AND PACKAGING TYPE): PRODUCTION FOR SHIPMENT, BY FACE SPECIES AND BY TYPE OF BOND, BY DIVISIONS AND SELECTED STATES, 1954

(Thousand square feet, surface measure)

(Includes market shipments and interplant transfers; generally does not include production for consumption in same plant.)

Division and State	Totals—all species, all types	Totals by species of face veneer, all types							Totals by types, all species				
		Birch (domestic and imported)	Gum-sweet (red) and black (Tupelo)	Maple (domestic and imported)	Oak	Walnut (domestic and imported)	Domestic woods not listed	Mahogany (Khaya and Swietenia)	Philippine woods	Imported woods not listed	Technical and Type I, waterproof	Type II, moisture resistant	Type III, dry bond
United States, total.....	736,885	226,385	266,489	16,983	43,343	11,168	85,073	32,920	47,749	16,775	51,070	642,437	43,378
New England.....	118,290	103,110	...	4,636	779	(D)	1,550	(D)	...	...	(D)	106,924	(D)
Vermont.....	52,848	37,897	...	4,616	775	...	(D)	(D)	...	...	(D)	45,810	(D)
Middle Atlantic.....	10,787	(D)	(D)	1,130	801	145	1,312	(D)	...	(D)	(D)	10,565	(D)
East North Central.....	289,207	246,613	2,516	6,619	21,779	24,495	26,498	26,573	2830	3,284	12,034	75,248	21,925
Indiana.....	23,886	(D)	2,343	699	2,556	1,038	1,292	4,868	473	(D)	6,106	17,780	...
Michigan.....	15,523	13,249	129	(D)	783	(D)	(D)	233	(D)	276	(D)	11,080	(D)
Wisconsin.....	47,792	23,342	(D)	5,683	7,887	2,814	4,583	1,102	(D)	2,313	(D)	45,613	(D)
West North Central.....	(D)	(D)	...	...	(D)	(D)	(D)	(D)	(D)	...	...	...	(D)
South Atlantic.....	332,245	19,787	213,062	3,097	23,170	5,789	49,903	12,941	2,466	2,030	6,491	308,176	17,578
Virginia.....	23,874	143	(D)	(D)	10,652	617	10,367	671	(D)	(D)	...	23,874	...
West Virginia.....	2,774	(D)	...	(D)	(D)	(D)	(D)	(D)	...	...	...	2,774	...
North Carolina.....	93,826	2,044	65,446	(D)	5,152	1,583	9,520	7,828	988	(D)	(D)	77,025	(D)
South Carolina.....	124,024	10,582	76,652	435	6,611	1,176	22,480	3,387	1,461	1,240	(D)	113,586	(D)
Georgia.....	70,671	6,703	53,401	1,699	508	2,309	5,197	840	(D)	(D)	(D)	381,195	...
Florida.....	17,076	(D)	(D)	...	(D)	...	(D)	(D)	(D)	...	(D)	317,076	...
East South Central.....	66,747	4,297	34,222	922	4,845	404	14,389	2,863	(D)	(D)	2,299	62,258	2,190
Tennessee.....	29,072	4,184	6,620	(D)	2,884	302	11,246	313	(D)	(D)	...	429,072	(D)
Alabama.....	14,930	(D)	(D)	(D)	(D)	(D)	(D)	(D)	...	(D)	(D)	514,930	(D)
Mississippi.....	22,745	(D)	17,898	(D)	1,055	(D)	(D)	...	(D)	(D)	(D)	622,745	...
West South Central.....	21,497	...	16,607	...	847	11	(D)	(D)	...	(D)	(D)	11,499	(D)
Mountain.....	...	...	...	...	...	...	...	...	...	...	...	...	...
Pacific.....	98,112	47,008	(D)	(D)	(D)	(D)	(D)	(D)	41,038	(D)	17,443	67,767	12,902
Washington.....	60,611	(D)	...	...	(D)	(D)	(D)	(D)	36,110	...	(D)	33,745	(D)
Oregon and California.....	37,501	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4,928	(D)	(D)	34,022	(D)

D Figures withheld to avoid disclosing figures for individual companies. Production figures reported from the following states also are withheld to avoid disclosing figures for individual companies: Maine, New Hampshire, New York, New Jersey, Pennsylvania, Ohio, Illinois, Minnesota, Arkansas and Texas.

1 Includes less than 1,000 thousand square feet for which species not specified.

2 Includes a negligible quantity from West North Central, combined to avoid disclosing figures for individual companies.

3 Includes a negligible quantity reported as Technical and Type I.

4 Includes less than 10 percent reported as Type III.

5 Includes less than 10 percent reported as other Types, mainly Type III.

6 Includes less than 10 percent reported as Technical and Type I.



## MANUFACTURES—INDUSTRY STATISTICS

Table 6E.—LUMBER CORE HARDWOOD PLYWOOD (EXCEPT CONTAINER AND PACKAGING TYPE): PRODUCTION FOR SHIPMENT,  
BY FACE SPECIES, BY DIVISIONS AND SELECTED STATES, 1954  
(Includes market shipments and interplant transfers; generally does not include production for consumption in same plant)

(Thousands of square feet, surface measure)

Division and State	Total, all species and types <sup>1</sup>	Totals by species of face veneer, all types								
		Birch (domestic and imported)	Gum-sweet (red) and black (tupelo)	Maple (domestic and imported)	Oak	Walnut (domestic and imported)	Domestic woods not listed	Mahogany (Khaya and Swietenia)	Philippine woods	Imported woods not listed
United States, total.....	22,234	12,231	18,279	2,735	8,439	4,896	2,708	10,072	1,744	1,135
Northeast.....	3,845	1,773	...	(D)	705	289	114	835	...	(D)
East North Central <sup>2</sup> .....	22,147	28,548	(D)	1,606	2,134	2,940	2,189	2,746	(D)	603
Indiana.....	7,187	891	135	697	1,106	1,139	800	2,243	49	127
Wisconsin.....	12,761	6,350	14	884	2,710	1,575	346	427	13	442
South Atlantic.....	24,958	(D)	9,711	676	3,073	1,394	1,114	5,859	1,495	(D)
Virginia.....	1,193	40	61	49	282	178	101	447	...	35
North Carolina.....	18,293	416	6,692	538	2,405	1,052	376	4,971	(D)	(D)
South Carolina.....	1,023	510	51	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Georgia.....	3,993	143	2,907	(D)	74	43	(D)	(D)	(D)	(D)
East South Central.....	11,289	(D)	(D)	(D)	627	263	291	632	(D)	(D)

(D) Figures withheld to avoid disclosing figures for individual companies; production figures reported from the following States also are withheld to avoid disclosing figures for individual companies: New Hampshire, Vermont, New Jersey, New York, Pennsylvania, Ohio, Michigan, Minnesota, West Virginia, Florida, Tennessee, Alabama and Mississippi.

<sup>1</sup>Lumber core hardwood plywood is predominantly Type II, moisture resistant.

<sup>2</sup>Includes negligible quantities reported from West North Central States.

Table 6F.—CONTAINER AND PACKAGING TYPE HARDWOOD PLYWOOD: PRODUCTION FOR SHIPMENT, BY GEOGRAPHIC DIVISIONS, 1954

(Includes market shipments and interplant transfers; generally does not include production for consumption in same plant.)

Division	Thousands of square feet, surface measure	Thousands of board feet
United States, total.....	101,755	30,834
New England.....	19,536	7,957
South Atlantic <sup>1</sup> .....	41,170	10,224
East South Central <sup>2</sup> .....	15,972	5,075
West South Central.....	25,077	7,578

Note: Production was reported from Maine, Vermont, Indiana, Georgia, Florida, Alabama, Mississippi, Arkansas, Louisiana and Texas, but State figures are withheld to avoid disclosure of operations of individual companies.

<sup>1</sup>Of the totals shown for this division, North Carolina accounted for 33,356 thousand square feet surface measure and 8,060 thousand board feet equivalent.

<sup>2</sup>Includes less than 2 percent reported from East North Central.

Table 6G.—SOFTWOOD PLYWOOD; PRODUCTION, BY SPECIES, TYPES, AND STATES: 1954

(Thousands of square feet, 3/8" basis)

State	Total, all species, all types	Douglas fir			Other softwoods (both types)		
		Total	Interior type	Exterior type	Total	Ponderosa pine	Other softwoods
United States, total.....	3,989,327	3,871,213	2,963,300	907,913	118,114	252,684	165,430
Washington and Idaho.....	1,434,153	1,381,189	1,015,611	365,578	52,964	12,407	40,557
Oregon.....	2,013,885	2,006,013	1,543,415	462,598	7,872	27,872	( <sup>2</sup> )
California.....	541,289	484,011	404,274	79,737	57,278	32,405	24,873

<sup>1</sup>Of this total 104,849 was reported as interior type and 13,265 as exterior type.

<sup>2</sup>Includes a negligible quantity of white pine, combined with ponderosa pine to avoid disclosing figures for an individual company; production reported as "Knotty pine" is also included in ponderosa pine, accounting for less than 15 percent of the total.

<sup>3</sup>Includes 26,713 of hemlock; 14,059 of Idaho white and of sugar pine; 10,153 of white fir, noble fir, and vertical grain fir; and 14,505 of redwood, spruce, larch and cedar (of which redwood and spruce accounted for over 95 percent).

## MILLWORK, PLYWOOD, AND PREFABRICATED STRUCTURAL WOOD PRODUCTS

24B-15

Table 7.—MATERIALS CONSUMED, BY KIND: 1954

Code	Materials	Unit of measure	Consumption of materials received from other establishments		Consumption of materials produced in own establishment
			Quantity	Delivered cost (\$1,000)	
	INDUSTRY 2431—MILLWORK PLANTS				
	Materials, containers and supplies, total.....		xxx	487,963	xxx
242111	Rough lumber: Hardwood.....	Thousand board feet.	200,022	26,733	(NA)
242115	Softwood.....	...do.....	748,071	86,347	
242121	Dressed lumber: Hardwood.....	...do.....	(NA)	8,200	
242125	Softwood.....	...do.....	870,958	116,404	
242231	Veneer (other than container and flat): Hardwood.....	Thousand square feet (surf. measure).	360,431	14,941	
242235	Softwood.....	Thousand square feet 1" basis.	32,054	3,906	
243211	Plywood: Hardwood: Veneer core.....	Thousand square feet (surf. measure).	253,881	29,341	
243213	Lumber core.....	...do.....	20,499	3,735	
243215	Softwood.....	Thousand square feet 3/8" basis.	120,203	14,896	
335211	Aluminum and aluminum-base alloy mill shapes and forms (rolled, drawn and extruded).....	Thousand pounds.	6,298	3,810	
970000	All other materials and components, parts, crates, containers, and supplies.....		xxx	179,650	
	INDUSTRY 2432—PLYWOOD PLANTS				
	Materials, containers, and supplies, total.....		xxx	261,662	xxx
081111	Stumpage cost (current value).....		xxx	7,230	xxx
241111	Logs, bolts and unsliced flitches.....	Thousand feet log scale.	<sup>1</sup> 1,510,185	110,606	<sup>2</sup> 163,082
242111	Rough lumber: Hardwoods.....	Thousand board feet.	50,944	4,208	(D)
242115	Softwoods.....	...do.....	35,965	2,267	(D)
242121	Dressed lumber: Hardwoods.....	...do.....	5,616	821	xxx
242125	Softwoods.....	...do.....	11,222	1,377	xxx
242211	Container and flat veneer: Hardwood.....	...do.....	5,050	552	<sup>3</sup> 20,441
242215	Softwood.....	Thousand square feet 1" basis.	34,599	3,837	(D)
242231	Veneer (other than container and flat): Hardwood.....	Thousand square feet (surf. measure)	1,034,714	28,601	<sup>3</sup> 1,552,613
242235	Softwood.....	Thousand square feet 1" basis.	377,861	39,787	<sup>4</sup> 1,650,023
243211	Plywood: Hardwood: Veneer core.....	Thousand square feet (surf. measure)	14,751	1,681	xxx
243213	Lumber core.....	...do.....	180	38	xxx
243215	Softwood.....	Thousand square feet 3/8" basis.	12,496	1,489	xxx
970000	All other materials, components, parts, containers, and supplies consumed, including materials, etc., not specified by kind.....		xxx	59,168	xxx

See footnotes at end of table.

## MANUFACTURES—INDUSTRY STATISTICS

Table 7.—MATERIALS CONSUMED, BY KIND: 1954—Continued

Code	Materials	Unit of measure	Consumption of materials received from other establishments		Consumption of materials produced in own establishment
			Quantity	Delivered cost (\$1,000)	
	INDUSTRY 2433—PREFABRICATED WOOD PRODUCTS				
	Materials, containers and supplies, total.....		xxx	132,610	xxx
	Rough lumber:				
242111	Hardwood.....	Thousand board feet.	10,142	1,034	
242115	Softwood.....	....do.....	138,858	12,550	
	Dressed lumber:				
242121	Hardwood.....	....do.....	(NA)	3,349	
242125	Softwood.....	....do.....	287,346	31,853	
	Veneer (other than container and flat):				
242231	Hardwood.....	Thousand square feet (surf. measure)	846	133	
242235	Softwood.....	Thousand square feet 1" basis.	(NA)	191	
	Plywood:				
243211	Hardwood: Veneer core.....	Thousand square feet (surf. measure)	(NA)	759	
243213	Lumber core.....	....do.....	(NA)	287	
243215	Softwood.....	Thousand square feet 3/8" basis.	127,511	15,714	
335211	Aluminum and aluminum-base alloy mill shapes and forms (rolled, drawn and extruded).....	Thousand pounds.	290	166	
970000	All other materials and components, parts, crates, containers and supplies consumed, including materials, etc., not specified by kind.		xxx	66,574	

D Data withheld to avoid disclosing the figures of individual companies. xxx Not applicable. NA Not available. <sup>1</sup>In 1947 the plywood industry reported consumption of 791,446 thousand feet, log scale, of veneer logs, bolts, and log flitches, purchased from non-affiliated establishments and transferred from affiliated establishments. <sup>2</sup>In 1947 the plywood industry reported consumption of 127,325 thousand feet, log scale, of veneer logs, bolts, and log flitches, produced by consuming establishments. <sup>3</sup>In 1947 the plywood industry reported total production of hardwood veneer in the amount of 2,107,094 thousand square feet, surface measure. <sup>4</sup>In 1947 the plywood industry reported production of Douglas fir veneer in the amount of 4,174,247 thousand square feet, surface measure, which represents production of between 500,000 thousand and 600,000 thousand square feet when converted to a 1" average thickness basis. In addition, the plywood industry reported production in 1947 of softwoods other than Douglas fir and woods not reported by kind in the amount of 359,272 thousand square feet, surface measure, which represents production of between 30,000 and 40,000 thousand square feet when converted to a 1" average thickness basis.



Table 8.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY INDUSTRY SPECIALIZATION AND PRIMARY PRODUCT CLASS SPECIALIZATION, FOR THE UNITED STATES: 1954

(This table presents selected statistics for establishments classified according to their degree of specialization in products primary to the industry. The establishments are classified in two ways: (1) by industry specialization—the degree of specialization in all primary products of the industry; and (2) by product-class specialization—the degree of specialization in the largest product class of the establishment. The degree of "industry specialization" for an establishment represents the ratio of its primary product shipments to its total product shipments, primary and secondary. The degree of "product-class specialization" for an establishment represents the ratio of its largest product class shipments to its total product shipments, primary and secondary. Data are not shown for some industries, product classes, and specialization ranges for a variety of reasons, consequently, detailed figures frequently do not add to the totals. See Introduction for detailed explanation)

Ind. or product class No.	Industry or product class by percent of specialization	Estab- lish- ments, number	All employees		Production workers			Value added by manufacture	Cost of materials, etc.	Value of shipments
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
2431	MILLWORK PLANTS (entire industry).....	3,348	68,668	258,198	55,700	113,488	188,156	374,518	498,490	873,007
	Establishments with:									
	90% or more specialization.....	2,618	42,136	159,049	34,313	69,918	115,641	233,645	325,451	559,096
	75-89% specialization.....	285	12,269	47,472	9,670	19,793	34,552	69,439	86,602	156,041
	50-74% specialization.....	317	12,601	45,630	10,381	21,135	33,411	62,653	78,560	141,214
	All other.....	128	1,660	6,046	1,335	2,641	4,551	8,780	7,875	16,656
24311	Wood windows, and units, and storm sash: All establishments specializing in product class.	341	13,533	52,665	10,472	21,764	36,505	76,482	101,848	178,331
	Establishments with:									
	90% or more specialization.....	113	1,749	6,678	1,370	2,752	4,433	10,861	17,363	28,225
	75-89% specialization.....	28	1,663	8,378	1,324	2,719	5,994	15,698	19,836	35,534
	50-74% specialization.....	94	3,891	13,847	2,805	5,813	8,823	17,250	22,328	39,578
	Less than 50% specialization.....	106	6,228	23,762	4,972	10,479	17,253	32,671	42,320	74,992
24312	Window and door frames, wood: All establishments specializing in product class.	157	3,711	13,956	3,269	6,510	11,384	20,762	32,399	53,161
	Establishments with:									
	90% or more specialization.....	65	615	2,254	526	1,044	1,840	3,652	5,929	9,582
	75-89%.....	19	497	1,873	444	846	1,601	3,177	4,694	7,871
	50-74% specialization.....	30	752	2,992	622	1,276	2,178	4,170	6,062	10,233
	Less than 50% specialization.....	43	1,846	6,836	1,676	3,343	5,764	9,762	15,712	25,475
24313	Doors, wood & wood combination screen-storm doors: All establishments specializing in product class.	339	19,267	69,425	16,480	33,795	53,117	105,940	161,245	267,186
	Establishments with:									
	90% or more specialization.....	178	8,070	29,118	7,018	14,185	22,203	50,137	82,013	132,150
	75-89% specialization.....	21	1,364	4,735	1,162	2,331	3,836	8,047	11,612	19,659
	50-74% specialization.....	61	4,866	17,369	4,078	8,898	13,226	25,234	35,017	60,252
	Less than 50% specialization.....	79	4,964	18,202	4,221	8,380	13,850	22,522	32,602	55,124
24314	Cabinet work, to be built-in: All establishments specializing in product class.	898	9,274	36,022	7,295	14,721	25,746	49,263	46,824	96,088
	Establishments with:									
	90% or more specialization.....	563	3,697	13,812	3,011	6,036	10,500	21,162	20,222	41,385
	75-89% specialization.....	67	1,105	4,909	813	1,660	3,171	6,117	5,581	11,699
	50-74% specialization.....	132	1,560	6,000	1,235	2,418	4,127	8,334	7,595	15,930
	Less than 50% specialization.....	136	2,911	11,299	2,234	4,605	7,947	13,648	13,425	27,073
24315	Interior trim and molding, wood: All establishments specializing in product class.	257	6,721	26,190	5,531	11,064	19,539	38,608	67,266	105,875
	Establishments with:									
	90% or more specialization.....	122	2,375	9,280	2,068	4,071	7,221	16,259	36,270	52,530
	75-89% specialization.....	14	407	1,595	334	711	1,159	2,368	5,320	7,689
	50-74% specialization.....	44	1,366	4,977	1,138	2,263	3,957	6,928	12,447	19,375
	Less than 50% specialization.....	77	2,573	10,338	1,989	4,017	7,200	13,051	13,228	26,280
24316	Other millwork products: All establishments specializing in product class.	376	6,999	27,725	5,305	10,705	18,142	38,512	37,773	76,285
	Establishments with:									
	90% or more specialization.....	234	3,636	14,671	2,757	5,512	9,652	21,732	19,232	40,965
	75-89% specialization.....	18	501	1,683	413	758	1,117	2,416	2,148	4,564
	50-74% specialization.....	50	968	3,509	796	1,585	2,506	4,792	5,848	10,639
	Less than 50% specialization.....	74	1,893	7,862	1,338	2,848	4,866	9,570	10,545	20,116
2432	PLYWOOD PLANTS (entire industry).....	255	39,201	152,301	36,100	74,155	133,940	246,250	268,772	515,023
	Establishments with:									
	90% or more specialization.....	218	32,306	124,847	29,880	61,067	110,201	198,337	223,633	421,971
	75-89% specialization.....	12	1,837	7,742	1,611	3,519	6,390	13,299	12,082	25,381
	50-74% specialization.....	17	4,082	15,514	3,685	7,636	13,354	26,228	24,348	50,576
	All other.....	8	976	4,198	923	1,932	3,994	8,385	8,708	17,094
24321	Hardwood plywood: All establishments specializing in product class.	126	16,006	44,296	14,867	31,291	37,840	65,514	77,980	143,494
	Establishments with:									
	90% or more specialization.....	105	11,865	29,663	11,046	23,159	24,719	43,364	53,286	96,650
	75-89% specialization.....	9	839	2,760	773	1,797	2,331	4,110	4,712	8,822

See footnote at end of table.

Table 8.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY INDUSTRY SPECIALIZATION AND PRIMARY PRODUCT CLASS SPECIALIZATION, FOR THE UNITED STATES: 1954—Continued

Ind. or prod- uct class No.	Industry or product class by percent of specialization	Estab- lish- ments, number	All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
2432	PLYWOOD PLANTS (entire industry)—Continued									
24322	Softwood plywood, interior type:									
	All establishments specializing in product class.	86	19,495	93,030	18,039	36,502	83,684	153,801	161,530	315,333
	Establishments with:									
	90% or more specialization.....	34	3,932	18,157	3,642	7,461	16,240	33,414	38,326	71,741
	75-89% specialization.....	14	3,342	15,114	3,017	6,269	13,475	23,833	24,903	48,736
	50-74% specialization.....	34	10,169	50,752	9,544	19,267	46,378	83,026	83,779	166,805
	Less than 50% specialization.....	4	2,052	9,807	1,836	3,505	7,591	13,528	14,522	28,050
24324	Nonwood face plywood and veneer, composite board:									
	All establishments specializing in product class.	26	1,583	5,031	1,019	2,013	3,242	7,973	8,610	16,583
	Establishments with:									
	90% or more specialization.....	19	734	2,677	552	1,120	1,784	3,464	4,906	8,371
2433	PREFABRICATED WOOD PRODUCTS (entire industry).....	231	11,547	45,905	9,216	17,615	29,125	88,999	135,388	224,388
	Establishments with:									
	90% or more specialization.....	207	11,010	44,198	8,752	16,460	27,829	86,268	132,029	218,297
	75-89% specialization.....	10	188	523	162	272	376	975	913	1,889
24331	Fabricated structural framing and wood laminates:									
	All establishments specializing in product class.	38	1,770	6,918	1,535	2,923	4,404	13,123	14,930	28,053
	Establishments with:									
	90% or more specialization.....	28	1,306	5,503	1,150	2,146	3,277	9,990	11,396	21,386
24332	Prefabricated buildings, wood:									
	All establishments specializing in product class.	137	8,869	35,227	6,844	13,095	21,938	68,439	106,943	175,383
	Establishments with:									
	90% or more specialization.....	120	8,378	33,575	6,416	12,344	20,714	66,075	103,661	169,736
24333	Ready-cut wood buildings:									
	All establishments specializing in product class.	37	796	3,316	738	1,405	2,457	6,683	12,396	19,080
	Establishments with:									
	90% or more specialization.....	30	713	3,030	669	1,284	2,232	6,109	11,655	17,765

<sup>1</sup>This class includes data for establishments with less than 50 percent specialization in the primary products of the industry and establishments engaged exclusively in contract work defined in the industry. Miscellaneous small statistical adjustments are also included.







## Wooden Containers

This report shows 1954 Census of Manufactures statistics for establishments classified in each of the following industries:

Code	Title
2441--	Fruit and Vegetable Baskets
2442--	Rattan and Willow Ware
2443--	Cigar Boxes
2444--	Wooden Boxes
2445--	Cooperage

Establishments in this group specialize to a high degree in the production of those items which are primary to the industry in which they are classified. Moreover, with the exception of Industry 2441, Fruit and Vegetable Baskets, and Industry 2444, Wooden Boxes, the industries in this group account for better than 90 percent of the total value of their primary products shipped by all industries. Many of the establishments in Industries 2441 and 2444 produce their own logs and bolts as well as the lumber, veneer, or plywood consumed in the manufacture of baskets and boxes by the same establishment (see Table 7).

### 2441--Fruit and Vegetable Baskets

This industry comprises establishments primarily engaged in manufacturing till baskets, berry cups, climax baskets, round stave baskets, vegetable hampers, and splint or market baskets made primarily of veneer and splint for shipping and marketing fruits and vegetables. Establishments primarily engaged in manufacturing rattan and willow ware baskets other than fruit and vegetable baskets are classified in Industry 2442, Rattan and Willow Ware. For a detailed list of primary products of Industry 2441, refer to Table 6A, product codes 2441011 to 2441098.

The value of shipments of Industry 2441 in 1954 totaled \$31 million. This included shipments of primary products (fruit and vegetable baskets) valued at \$28 million, and shipments of secondary products valued at \$3 million. Miscellaneous receipts were negligible.

Industry 2441 shipments of fruit and vegetable baskets in 1954 represented 91 percent of its total product shipments (primary and secondary). In 1947, this primary product specialization ratio was also 91 percent. Secondary products shipped by Industry 2441 in 1954 consisted mainly of wirebound boxes and box shoo for fruits and vegetables, \$2 million.

Industry 2441 shipments of fruit and vegetable baskets in 1954 represented 88 percent of the fruit and vegetable baskets, valued at \$32 million, shipped by all industries. This coverage ratio in 1947 was also 88 percent. Industry 2444, Wooden Boxes, is the principal other industry shipping fruit and vegetable baskets, \$3 million. Establishments in Industry 2441 produced 9 million feet, board measure, of rough lumber and 6 million square feet, 1" thickness basis, of veneer, 57 and 28 percent respectively of the total of these materials consumed in the fruit and vegetable baskets industry.

2442--Rattan and Willow Ware (Full Standard Industrial Classification Title: Rattan and Willow Ware, Except Furniture and Fruit and Vegetable Baskets)

This industry comprises establishments primarily engaged in manufacturing articles of rattan, reed, splint, veneer, and willow, such as laundry hampers, clothes baskets, market baskets, (except fruit and vegetable baskets--Industry 2441) and small articles such as trays, coasters, table pads, and willow bottle and demijohn covers. Establishments primarily engaged in manufacturing reed and rattan furniture are classified in Industry 2519, Household Furniture, Not Elsewhere Classified. For a detailed list of primary products of Industry 2442, refer to Table 6A, product codes 2442011 to 2442098.

The value of shipments of Industry 2442 in 1954 totaled \$11 million. This included shipments of primary products (rattan and willow ware) valued at \$10 million, and shipments of

secondary products valued at \$1 million. Miscellaneous receipts are negligible in this industry.

Industry 2442 shipments of rattan and willow ware in 1954 represented 91 percent of its total product shipments (primary and secondary). In 1947, this primary product specialization ratio was 89 percent.

Industry 2442 shipments of rattan and willow ware in 1954 represented 93 percent of the rattan and willow ware, valued at \$11 million, shipped by all industries. This coverage ratio in 1947 was also 93 percent.

### 2443--Cigar Boxes

This industry comprises establishments primarily engaged in manufacturing cigar boxes of wood, or partly of wood, in which cigars are packed for sale. Establishments primarily engaged in manufacturing paper cigar boxes are classified in Industry 2671, Paperboard Boxes.

The value of shipments of Industry 2443 in 1954 totaled \$8 million. This included shipments of primary products (cigar boxes) valued at \$8 million; shipments of secondary products are negligible in this industry.

Industry 2443 shipments of cigar boxes in 1954 represented 97 percent of its total product shipments (primary and secondary). In 1947 this primary product specialization ratio was 100 percent.

Industry 2443 shipments of cigar boxes in 1954 represented 94 percent of the cigar boxes, valued at \$8 million, shipped by all industries. This coverage ratio in 1947 was 85 percent. The principal other industry shipping cigar boxes is Industry 2671, Paperboard Boxes. The above data do not take into account any cigar boxes that may be produced by establishments in Cigars Industry 2121, for their own use.

2444--Wooden Boxes (Full Standard Industrial Classification Title: Wooden Boxes, Except Cigar Boxes)

This industry comprises establishments primarily engaged in manufacturing wooden boxes (nailed or wirebound, plain or fabric-covered), crates, cases, wooden shipping drums, and carrier trays. Establishments primarily engaged in manufacturing box shoo and wooden trunk slats from purchased lumber are also included in this industry, but establishments primarily engaged in manufacturing box shoo from logs or bolts are classified in Industry 2421, Sawmills and Planing Mills. Establishments primarily engaged in manufacturing fruit and vegetable baskets are classified in Industry 2441, cigar boxes in Industry 2443; and wooden outer burial boxes in Industry 3988, Morticians' Goods. Establishments primarily engaged in salvaging or reconditioning wooden boxes are excluded from manufacturing and classified in Trade Industries.

For a detailed list of primary products of Industry 2444, refer to Table 6A, product codes 2444111 to 2444698.

In this industry establishments were asked to report their shipments of completely assembled boxes and crates separately from their shipments of box shoo; box shoo was defined to include finished sections or panels. In addition, shipments of boxes and crates made from shoo produced at the establishment were to be reported separately from boxes and crates made from purchased shoo. These separate shipment data were requested in order to provide some indication of the amount of duplication that results when shoo are reported as shipped by one establishment and subsequently reported by the purchasing establishment which assembles them into boxes. Boxes and crates made in the consuming establishment are not included in any of the statistics for this industry.

Table 6A shows the total value of shipments of box shoo, including the shoo made by establishments classified in the

sawmill industry (Industry 2421), as well as the total value of shipments of assembled boxes and crates.

The value of shipments of Industry 2444 in 1954 totaled \$352 million. This included shipments of primary products (wooden boxes, except cigar boxes, and box shook) valued at \$324 million, shipments of secondary products, valued at \$25 million, and miscellaneous receipts of \$3 million.

Industry 2444 shipments of primary products represented 93 percent of its total product shipments (primary and secondary). In 1947, this primary product specialization ratio was 96 percent. Secondary products shipped by the industry in 1954 consisted mainly of dressed lumber, except flooring, \$4 million, millwork and related products, \$4 million; and miscellaneous turned and shaped wood products, \$4 million.

Industry 2444 shipments of primary products in 1954 represented 85 percent of these products, valued at \$381 million, shipped by all industries. This coverage ratio in 1947 was also 85 percent. In calculating these ratios, shipments of box shook produced from logs in establishments classified in Industry 2421, Sawmills, were treated as being primary to Industry 2444, thus understating the "coverage" of the wooden box industry in both years. If box shook made by sawmills and planing mills were excluded, the 1954 coverage ratio would be 94 percent.

The principal other manufacturing industry shipping wooden boxes and box shook in 1954 was Industry 2421, Sawmills and Planing Mills; its shipments of these products amounted to \$37 million. Of this total box shook accounted for \$35 million, 24 percent of the box shook shipped by all industries and wooden

boxes and crates, less than \$2 million. Box shook, and boxes and crates, made and consumed in the same establishment, are not included in the \$149 million, and \$232 million, value respectively of shipments reported for these products.

#### 2445--Cooperage

This industry comprises establishments primarily engaged in manufacturing barrels, kegs, tubs, hogsheads, pails, and other containers made of staves, except fruit and vegetable baskets (Industry 2441). Establishments primarily engaged in recoopering barrels and kegs are also included in Industry 2445, but establishments primarily engaged in manufacturing cooperage stock are classified in Industry 2424, Cooperage Stock Mills. Establishments primarily engaged in manufacturing tobacco hogsheads are classified in Industry 2444, (Wooden Boxes). For a detailed list of primary products of Industry 2445, refer to Table 6A product codes 2445111 to 2445241.

The value of shipments of Industry 2445 in 1954 totaled \$60 million. This included shipments of primary products (cooperage) valued at \$57 million, shipments of secondary products valued at \$2 million, and miscellaneous receipts of \$1 million.

Industry 2445 shipments of cooperage in 1954 represented 97 percent of its total product shipments (primary and secondary). In 1947 this primary product specialization ratio was 96 percent.

Industry 2445 shipments of cooperage in 1954 represented 99 percent of the cooperage valued at \$58 million, shipped by all industries. This coverage ratio in 1947 was 97 percent.

The general statistics (employment, payrolls, value of shipments, cost of materials, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products, and, for that matter, their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (Tables 1-4) with product statistics (Table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in Table 5A which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry made as secondary products by establishments classified in other industries.



## WOODEN CONTAINERS

24C-3

Table 1.—GENERAL STATISTICS FOR THE UNITED STATES: 1954 AND EARLIER YEARS

(For explanation of column captions see Introduction)

Industry and census year	Establishments, number	All employees		Production workers		Value added by manufacture <sup>2</sup> (\$1,000)	Cost of materials, etc. <sup>3</sup> (\$1,000)	Value of shipments <sup>4</sup> (\$1,000)
		Number <sup>1</sup>	Payroll (\$1,000)	Number <sup>1</sup>	Wages (\$1,000)			
Fruit and vegetable baskets (S.I.C. 2441):								
1954.....	134	6,685	13,869	6,278	11,782	18,961	11,554	30,516
1952 <sup>5</sup> .....	(NA)	8,099	15,150	7,854	13,683	20,424	11,338	31,762
1951 <sup>5</sup> .....	(NA)	8,216	15,142	7,925	13,746	21,142	11,615	32,757
1947.....	141	9,105	13,398	8,781	12,093	19,330	11,254	30,550
1939 <sup>6</sup> .....	161	(NA)	(NA)	9,093	5,019	9,815	6,455	16,270
Rattan and willow ware (S.I.C. 2442):								
1954.....	75	1,293	3,307	1,159	2,731	5,329	5,687	11,017
1947.....	53	1,073	2,101	983	1,776	3,573	3,670	7,243
1939.....	47	1,631	1,511	1,377	926	2,244	1,674	3,918
1937 <sup>7</sup> .....	48	(NA)	(NA)	1,805	1,174	2,463	1,750	4,213
Cigar boxes (S.I.C. 2443):								
1954.....	23	1,081	2,333	992	1,971	3,988	3,900	7,889
1947.....	42	1,875	3,135	1,747	2,650	4,655	3,447	8,102
1939.....	59	3,317	2,595	3,101	2,017	3,848	2,483	6,331
1937.....	69	3,487	2,823	3,296	2,322	4,447	2,681	7,128
1935.....	72	3,368	2,541	3,176	2,000	3,934	2,227	6,161
1933.....	77	3,574	2,070	3,426	1,782	3,695	2,209	5,904
1931.....	92	(NA)	(NA)	3,777	2,564	5,386	3,473	8,859
1929.....	118	4,642	4,322	4,374	3,508	7,221	5,238	12,459
1927.....	136	4,909	4,719	4,577	3,925	7,288	5,621	12,909
1925.....	155	5,210	4,795	4,836	3,967	7,475	5,450	12,925
1923.....	170	5,549	5,244	5,101	4,171	8,547	6,249	14,796
1921.....	171	5,069	4,646	4,657	3,728	7,539	6,778	14,317
1919.....	189	5,574	4,310	5,218	3,512	6,773	6,337	13,110
1914.....	238	6,236	2,777	5,835	2,299	4,068	4,269	8,337
1909.....	274	6,551	2,705	6,115	2,234	4,178	4,313	8,491
1904.....	297	6,652	2,453	6,282	2,120	3,976	3,810	7,786
1899.....	315	4,825	1,612	4,609	1,440	2,796	3,061	5,857
Wooden boxes (S.I.C. 2444):								
1954.....	1,101	39,522	105,781	35,871	86,643	165,361	186,754	352,108
1952 <sup>5</sup> .....	(NA)	41,624	109,076	38,118	91,670	166,411	194,782	361,193
1951 <sup>5</sup> .....	(NA)	43,275	107,153	39,891	91,797	172,030	200,272	372,302
1950 <sup>5</sup> .....	(NA)	39,637	94,029	36,504	79,280	146,113	163,655	309,768
1949 <sup>5</sup> .....	(NA)	38,591	82,011	35,264	67,621	116,677	141,112	257,949
1947.....	1,025	47,828	98,833	44,606	85,757	174,545	190,745	365,290
1939 <sup>6</sup> .....	762	(NA)	(NA)	36,838	27,496	57,737	55,458	113,195
Cooperage (S.I.C. 2445):								
1954.....	180	3,723	12,350	3,377	10,507	21,656	38,693	60,350
1953 <sup>5</sup> .....	(NA)	4,863	15,120	4,338	13,058	24,185	47,692	71,877
1952 <sup>5</sup> .....	(NA)	4,645	14,590	4,246	12,350	21,634	44,248	65,882
1951 <sup>5</sup> .....	(NA)	6,421	19,757	5,956	17,304	32,658	75,725	108,383
1950 <sup>5</sup> .....	(NA)	6,596	18,423	6,103	15,973	33,258	68,044	101,302
1949 <sup>5</sup> .....	(NA)	6,271	16,034	5,933	11,276	31,012	57,781	88,793
1947.....	255	9,223	22,086	8,610	18,981	31,350	75,029	106,379
1939.....	350	8,104	8,557	7,193	6,560	13,943	24,318	38,261
1937.....	397	10,246	10,779	9,588	9,177	17,698	32,527	50,225
1935.....	407	10,669	9,836	9,879	7,982	16,584	29,972	46,556
1933.....	361	9,025	7,196	8,457	6,261	12,705	22,913	35,618
1931.....	500	(NA)	(NA)	8,208	7,663	14,810	24,333	39,143
1929.....	586	11,661	14,255	10,691	11,706	23,326	41,516	64,842
1927.....	528	12,424	15,492	11,455	12,937	23,126	43,821	66,947
1925.....	553	12,466	15,383	11,483	12,908	23,559	44,176	67,735
1923.....	623	13,093	15,853	12,028	13,183	24,778	48,356	73,134
1921.....	625	10,824	12,426	9,876	10,109	16,047	40,586	56,633
1919.....	1,099	14,428	17,005	13,219	14,082	29,715	58,521	88,236
1914.....	1,259	18,228	10,704	17,128	9,161	17,073	32,944	50,017
1909.....	1,374	(NA)	(NA)	19,489	8,970	17,460	32,162	49,622
1904.....	1,517	22,359	10,877	21,149	9,485	18,331	31,093	49,424
1899.....	1,694	22,926	9,611	22,117	8,786	16,289	22,151	38,440

NA Not available.

<sup>1</sup>For the period 1949-1954, figures are based on employment for the payroll periods ended nearest the 15th of March, May, August and November. (However, in the case of industry 2445 a different method was used for 1954: All employees represents the average of 12 monthly figures, and production workers was calculated by subtracting from the all employees total the average number of nonproduction employees for March, May, August and November). For 1947, they represent the average of 12 monthly figures. For earlier years, the production worker average was calculated as in 1947, but the figure for all employees represents the sum of the annual average number of production workers and the number of nonproduction workers reported for one payroll period (usually in October).

<sup>2</sup>Value of products less cost of materials, supplies, fuel, electric energy and contract work. See Introduction, "Value Added by Manufacture."

<sup>3</sup>Figures for years prior to 1935 do not include contract work.

<sup>4</sup>For 1929 and 1947-1954, value of shipments; for all other years, value of production. See Introduction, "Value of Shipments."

<sup>5</sup>The figures for 1949-1953 represent estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period. Estimates with a standard error in excess of 15 percent generally have been omitted from this table.

<sup>6</sup>No comparable figures are available for earlier years.

<sup>7</sup>Rattan and willow ware, n.e.c. was formerly a part of the discontinued industry "Baskets and rattan and willow ware, not including furniture." Separate figures for earlier years are therefore not available.

## MANUFACTURES—INDUSTRY STATISTICS

Table 2.—GENERAL STATISTICS BY REGIONS AND STATES: 1954 AND 1947  
(For explanation of column captions see Introduction)

Industry, region, and State <sup>1</sup>	1954											1947	
	Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
	Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
Fruit and vegetable baskets (S.I.C. 2441), total.....	134	70	6,685	13,869	6,278	12,497	11,782	18,961	11,554	30,516	674	9,105	19,330
New England.....	5	1	87	202	80	144	151	293	143	436	14	143	282
Middle Atlantic.....	29	13	967	2,365	886	1,852	1,947	3,243	2,378	5,622	85	1,244	3,696
New Jersey.....	10	6	550	1,305	509	1,083	1,169	1,856	1,640	3,497	51	594	2,081
North Central.....	35	17	842	1,727	771	1,455	1,426	2,312	1,079	3,391	64	1,277	2,717
Ohio.....	15	9	384	764	353	639	654	1,201	378	1,579	17	498	(D)
Illinois.....	4	2	90	166	81	150	135	182	135	318	(D)	247	371
Michigan.....	7	4	199	434	177	360	353	517	403	920	(D)	207	(D)
South Atlantic.....	31	20	2,952	6,062	2,781	5,621	5,304	8,327	4,934	13,262	352	(D)	(D)
Virginia.....	5	4	920	2,076	890	1,839	1,884	2,630	1,543	4,173	18	931	2,177
North Carolina.....	4	4	921	1,968	851	1,750	1,708	3,082	1,623	4,706	150	985	2,207
East South Central.....	12	5	325	489	314	521	453	593	330	924	5	(D)	(D)
West South Central.....	15	11	1,296	2,422	1,252	2,569	2,047	3,115	1,667	4,782	113	1,930	(D)
West.....	7	3	213	599	192	333	451	1,076	1,021	2,097	39	179	641
Rattan and willow ware, (S.I.C. 2442), total.....	75	17	1,293	3,307	1,159	2,228	2,731	5,329	5,687	11,017	180	1,073	3,573
New England.....	10	4	220	539	200	401	466	639	449	1,088	5	(D)	(D)
Middle Atlantic.....	32	5	562	1,548	501	1,011	1,330	2,638	3,397	6,035	(D)	(D)	(D)
New York.....	25	5	502	1,422	449	917	1,220	2,364	3,145	5,509	116	422	1,709
North Central.....	18	6	396	997	348	626	749	1,677	1,528	3,206	(D)	390	1,144
Indiana.....	4	3	251	651	220	400	467	1,166	984	2,151	(D)	260	(D)
Illinois.....	5	2	70	161	62	89	129	260	321	581	7	25	(D)
South and West.....	15	2	114	222	108	188	185	374	313	688	8	48	145
Cigar boxes (S.I.C. 2443), total.....	23	13	1,081	2,333	992	2,019	1,971	3,988	3,900	7,889	185	1,875	4,655
Middle Atlantic.....	13	10	698	1,615	645	1,340	1,349	2,526	2,355	4,882	(D)	(D)	(D)
Pennsylvania.....	9	7	475	952	439	917	819	1,650	1,538	3,188	(D)	700	1,957
North Central.....	5	1	80	153	74	127	134	444	327	771	(D)	192	535
South.....	5	2	303	564	273	551	488	1,017	1,217	2,235	24	( <sup>2</sup> )	( <sup>2</sup> )
Wooden boxes (S.I.C. 2444), total.....	1,101	413	39,522	105,781	35,871	70,136	86,643	165,361	186,754	352,108	6,109	47,828	174,545
New England.....	127	47	3,387	9,526	3,010	6,054	7,643	13,173	14,137	27,311	504	6,033	23,945
Maine.....	15	8	582	1,483	537	1,090	1,289	2,134	2,764	4,898	85	1,556	5,372
New Hampshire.....	24	13	851	2,333	771	1,556	1,947	3,059	3,439	6,499	122	1,366	5,342
Massachusetts.....	62	20	1,320	3,824	1,147	2,304	3,004	5,207	4,938	10,146	237	1,887	7,958
Rhode Island.....	7	1	95	296	76	135	188	373	472	846	(D)	184	(D)
Middle Atlantic.....	174	41	2,858	9,209	2,444	4,851	6,791	14,709	16,613	31,322	706	4,039	15,982
New York.....	88	14	1,064	3,495	902	1,719	2,501	5,822	5,966	11,787	202	1,827	7,226
New Jersey.....	50	12	922	3,071	779	1,610	2,299	5,275	6,542	11,818	108	1,015	4,568
Pennsylvania.....	36	15	872	2,642	762	1,521	1,991	3,612	4,103	7,716	395	1,197	4,098
East North Central.....	261	90	6,413	19,715	5,642	11,306	15,392	29,438	29,780	59,219	921	8,601	38,690
Ohio.....	53	17	1,305	4,469	1,104	2,201	3,276	6,967	7,109	14,077	137	1,735	6,878
Indiana.....	27	9	535	1,632	470	941	1,300	2,734	3,253	5,988	98	603	2,559
Illinois.....	50	18	1,474	4,493	1,267	2,397	3,385	6,592	6,757	13,350	147	2,006	7,971
Michigan.....	75	19	1,241	3,977	1,109	2,276	3,245	5,708	6,528	12,237	321	1,913	12,529
Wisconsin.....	56	27	1,855	5,143	1,690	3,488	4,184	7,435	6,131	13,566	216	2,344	8,753

See footnotes at end of table.

## WOODEN CONTAINERS

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Table 2.—GENERAL STATISTICS BY REGIONS AND STATES: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Industry, region, and State <sup>1</sup>	1954											1947	
	Establishments, number		All employees		Production workers			Value added by manufacture	Cost of materials, etc.	Value of shipments	Capital expenditures, new	All employees, number	Value added by manufacture
	Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)		(\$1,000)
Wooden boxes—Cont.													
West North Central.....	76	33	2,125	5,976	1,923	3,956	4,823	9,918	12,920	22,839	312	1,855	6,215
Minnesota.....	23	10	691	2,148	630	1,246	1,717	3,157	3,791	6,948	69	627	(D)
Iowa.....	11	3	324	812	315	695	775	1,751	3,037	4,789	91	184	(D)
Missouri.....	25	10	642	1,829	567	1,238	1,379	3,012	3,259	6,271	109	824	2,595
South Atlantic.....	132	71	8,691	19,058	8,224	16,130	16,166	30,451	32,451	62,903	751	11,009	31,293
Maryland.....	13	3	367	978	342	743	814	1,300	1,402	2,703	44	573	1,766
Virginia.....	29	15	1,187	2,680	1,097	1,999	2,112	3,818	4,997	8,815	84	1,285	3,756
North Carolina.....	10	6	813	1,714	771	1,439	1,544	2,556	2,677	5,233	55	1,995	6,171
South Carolina.....	10	4	594	1,236	559	1,136	1,062	2,127	1,992	4,119	50	648	1,151
Georgia.....	28	23	2,884	6,215	2,765	5,499	5,506	10,749	10,085	20,834	188	2,852	7,826
Florida.....	33	16	2,613	5,641	2,469	4,869	4,658	9,035	10,694	19,730	279	3,034	8,281
East South Central.....	65	43	5,481	10,941	5,037	9,307	9,068	19,696	20,585	40,282	751	5,742	15,349
Alabama.....	30	23	1,319	2,214	1,236	2,270	1,978	3,911	4,370	8,281	97	1,002	2,645
Mississippi.....	14	9	2,742	5,080	2,557	4,603	4,428	10,241	10,789	21,031	401	2,744	(D)
West South Central.....	62	33	4,868	10,685	4,467	8,864	8,975	15,623	18,039	33,656	553	5,218	16,070
Arkansas.....	11	7	1,697	3,909	1,552	3,102	3,382	4,812	6,093	10,905	139	1,521	(D)
Texas.....	32	17	1,585	3,481	1,495	3,053	2,946	5,528	7,111	12,633	279	1,395	4,342
West.....	204	55	5,696	20,669	5,121	9,664	17,782	32,350	42,226	74,575	1,609	5,331	27,001
Arizona.....	8	3	156	666	137	293	503	1,145	4,990	6,135	31	138	(D)
California.....	128	27	3,271	12,383	2,943	5,680	10,842	19,782	25,550	45,332	1,037	3,042	17,209
Cooperage (S.I.C. 2445), total.....	180	32	3,723	12,350	3,377	6,497	10,507	21,656	38,693	60,350	973	9,223	31,350
New England.....	26	5	452	1,119	427	858	1,016	1,736	1,379	3,116	14	675	2,003
Massachusetts.....	10	2	195	557	183	370	493	818	922	1,741	(D)	428	1,215
Middle Atlantic.....	37	5	506	1,779	460	921	1,565	2,723	9,520	12,244	38	1,291	5,306
New York.....	15	1	86	313	83	172	304	608	1,329	1,937	7	362	(D)
New Jersey.....	8	1	60	216	53	118	183	296	408	705	(D)	166	(D)
Pennsylvania.....	14	3	359	1,250	323	630	1,077	1,818	7,782	9,601	(D)	763	2,374
East North Central.....	41	8	956	3,444	885	1,696	3,000	3,867	8,507	12,374	134	1,823	7,982
Ohio.....	14	3	443	1,562	417	802	1,399	1,884	3,136	5,021	41	526	2,927
Indiana.....	5	1	110	357	103	179	299	268	1,094	1,362	(D)	230	1,000
Illinois.....	14	3	345	1,346	314	620	1,152	1,406	3,828	5,234	(D)	893	3,346
West North Central.....	18	2	250	648	229	420	571	1,068	2,135	3,204	79	879	2,950
South and West.....	58	12	1,557	5,358	1,374	2,599	4,352	12,259	17,150	29,410	706	4,555	13,109
Maryland.....	10	2	210	660	184	353	549	1,100	1,447	2,548	(D)	305	(D)
Virginia.....	7		34	70	29	59	55	105	205	310	7	272	720
North Carolina.....	3		12	38	10	20	30	60	119	180	(D)	(D)	(D)

Note: Detailed figures may not add to the totals because of independent rounding.

<sup>1</sup> D Withheld to avoid disclosing figures for individual companies.<sup>2</sup> General statistics for some producing States are not shown separately in the table (See INTRODUCTION "Confidentiality of Data for Individual Companies"). Such States are shown below with the number of establishments in each State for 1954 and, in parentheses, the number of employees or the employment-size range for that State for 1954.

S.I.C. 2441, Fruit and Vegetable Baskets: New England—New Hampshire, 1 (1-10); Vermont, 1 (2-99); Massachusetts, 2 (2-99); Connecticut, 1 (1-19); Middle Atlantic—New York, 17 (250-499); Pennsylvania, 2 (1-19); North Central—Indiana, 2 (100-249); Wisconsin, 2 (1-19); Minnesota, 2 (1-19); Iowa, 2 (1-19); Nebraska, 1 (1-19); South Atlantic—Delaware, 1 (1-19); Maryland, 5 (100-249); South Carolina, 8 (100-249); Georgia, 5 (500-999); Florida, 3 (20-99); East South Central—Kentucky, 1 (1-19); Tennessee, 3 (100-249); Alabama, 5 (100-249); Mississippi, 3 (20-99); West South Central—Arkansas, 4 (500-999); Texas, 11 (500-999); West—Idaho, 1 (20-99); Colorado, 1 (1-19); California, 5 (100-249).

S.I.C. 2442, Rattan and Willow Ware, n.e.c.: New England—Maine, 1 (1-19); New Hampshire, 2 (20-99); Vermont, 1 (20-99); Massachusetts, 5 (20-99); Connecticut, 1 (20-99); Middle Atlantic—New Jersey, 1 (1-19); Pennsylvania, 6 (20-99); North Central—Ohio, 6 (20-99); Michigan, 1 (20-99); Wisconsin, 1 (1-19); Minnesota, 1 (1-19); South and West—Maryland, 2 (1-19); North Carolina, 4 (20-99); Georgia, 1 (1-19); Florida, 3 (1-19); Kentucky, 1 (1-19); Tennessee, 1 (20-99); Mississippi, 1 (1-19); California, 2 (1-19).

S.I.C. 2443, Cigar Boxes: Middle Atlantic—New York, 1 (1-19); New Jersey, 3 (100-249); North Central—Ohio, 1 (20-99); Indiana, 1 (1-19); Michigan, 1 (1-19); Wisconsin, 1 (1-19); Missouri, 1 (1-19); South—Maryland, 1 (1-19); North Carolina, 1 (1-19); South Carolina, 1 (20-99); Florida, 1 (100-249); Louisiana, 1 (1-19).

S.I.C. 2444, Wooden Boxes: New England—Vermont, 5 (250-499); Connecticut, 14 (250-499); West North Central—South Dakota, 2 (20-99); Nebraska, 6 (100-249); Kansas, 9 (100-249); South Atlantic—Delaware, 3 (20-99); West Virginia, 6 (100-249); East South Central—Kentucky, 1 (20-99); Tennessee, 16 (1-196); Louisiana, 16 (1,520, Oklahoma, 3 (20-99); West—Idaho, 7 (20-99); Colorado, 6 (250-499); New Mexico, 1 (1-19); Utah, 3 (20-99); Nevada, 1 (1-19).

S.I.C. 2445, Cooperage: New England—Maine, 13 (20-99); New Hampshire, 3 (100-249); Michigan, 5 (1-19); Wisconsin, 3 (20-99); West North Central—Minnesota, 4 (20-99); Iowa, 5 (20-99); Missouri, 6 (100-249); South Dakota, 1 (1-19); Nebraska, 1 (1-19); Kansas, 1 (1-19); South and West—West Virginia, 3 (1-19); Georgia, 1 (1-19); Florida, 1 (1-19); Kentucky, 4 (500-999); Tennessee, 5 (250-499); Alabama, 6 (20-99); Arkansas, 2 (100-249); Louisiana, 4 (20-99); Texas, 3 (1-19); Colorado, 1 (1-19); Washington, 2 (20-99); Oregon, 1 (20-99); California, 5 (20-99).

<sup>2</sup> Includes 654 employees and \$1,274 thousand in value added by manufacture for the South and West.



## MANUFACTURES--INDUSTRY STATISTICS

Table 3.--DETAILED STATISTICS FOR THE UNITED STATES: 1954

(For explanation of line captions see Introduction)

Item	Fruit and vegetable baskets (S.I.C. 2441)	Rattan and willow ware N.E.C. (S.I.C. 2442)	Cigar boxes (S.I.C. 2443)	Wooden boxes (S.I.C. 2444)	Cooperage (S.I.C. 2445)
Primary product specialization ratio <sup>1</sup> .....	91	91	97	93	97
Coverage ratio <sup>2</sup> .....	88	93	94	85	99
Number of establishments, total.....	134	75	23	1,101	180
With 1-19 employees.....	64	58	10	688	148
With 20-99 employees.....	52	15	10	317	20
With 100 employees and over.....	18	2	3	96	12
All employees:					
Number (average for year).....	6,685	1,293	1,081	39,522	3,723
Payroll.....\$1,000..	13,869	3,307	2,333	105,781	12,350
Production workers:					
Number (average for year).....	6,278	1,159	992	35,871	3,377
Man-hours.....1,000..	12,497	2,228	2,019	70,136	6,497
Wages.....\$1,000..	11,782	2,731	1,971	86,643	10,507
Value added by manufacture.....	18,961	5,329	3,988	165,361	21,656
Cost of materials, etc.....	11,554	5,687	3,900	186,754	38,693
Value of shipments.....	30,516	11,017	7,889	352,108	60,350
Value added by resales.....	126	249	3	4,023	158
Cost of products bought and resold.....	2,144	838	270	27,198	680
Sales of products bought and resold.....	2,271	1,088	273	31,221	839
Total inventories, beginning of year.....	5,429	1,536	1,333	47,978	27,116
Total inventories, end of year.....	5,709	1,435	1,465	44,381	20,739
Capital expenditures, new.....	674	( <sup>3</sup> )	( <sup>3</sup> )	6,109	973
Total employment, by month:					
January.....	(NA)	(NA)	(NA)	(NA)	3,844
February.....	(NA)	(NA)	(NA)	(NA)	3,837
March.....	6,516	1,286	1,100	40,206	3,915
April.....	(NA)	(NA)	(NA)	(NA)	3,799
May.....	6,854	1,271	1,079	40,899	3,886
June.....	(NA)	(NA)	(NA)	(NA)	3,823
July.....	(NA)	(NA)	(NA)	(NA)	3,604
August.....	6,783	1,291	1,089	(NA)	3,398
September.....	(NA)	(NA)	(NA)	38,245	3,521
October.....	(NA)	(NA)	(NA)	(NA)	3,720
November.....	6,589	1,325	1,057	38,736	3,691
December.....	(NA)	(NA)	(NA)	(NA)	3,638
Cost of materials, fuel, electricity and contract work, total.....\$1,000..	11,554	5,687	3,900	186,754	38,693
Materials, parts, containers, and supplies consumed.....	11,202	5,585	3,839	181,647	38,089
Fuels consumed, total.....	77	51	27	897	177
Bituminous coal and anthracite:					
Quantity.....1,000 short tons..	3	1	2	16	2
Value.....\$1,000..	26	14	17	162	25
Coke:					
Quantity.....1,000 short tons..	( <sup>4</sup> )	...	...	...	( <sup>4</sup> )
Value.....\$1,000..	6	...	...	...	6
Fuel oil:					
Quantity.....1,000 barrels..	3	7	2	68	8
Value.....\$1,000..	14	26	7	296	31
Gas:					
Quantity.....million cubic feet..	65	10	20	427	149
Value.....\$1,000..	12	11	3	125	86
Other fuels:					
Value.....do.....	19	...	...	314	29
Electric energy:					
Purchased:					
Quantity.....million kwh..	13	3	1	146	17
Cost.....\$1,000..	236	51	34	2,520	291
Generated.....million kwh..	( <sup>5</sup> )	...	...	19	1
Sold:					
Quantity.....do.....	...	...	...	( <sup>5</sup> )	...
Value.....\$1,000..	...	...	...	2	...
Cost of contract work.....do.....	39	...	...	1,690	136
Manufacturers' inventories:					
Beginning of year, total.....do.....	5,429	1,536	1,333	47,978	27,116
Finished products.....do.....	3,741	606	( <sup>3</sup> )	11,172	1,773
Work-in-process.....do.....	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	6,319	14,595
Materials, supplies, fuel, etc.....do.....	1,338	688	1,054	30,487	10,748
End of year, total.....do.....	5,709	1,435	1,465	44,381	20,739
Finished products.....do.....	3,979	554	( <sup>3</sup> )	11,777	1,899
Work-in-process.....do.....	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	5,322	9,539
Materials, supplies, fuel, etc.....do.....	1,381	649	1,146	27,282	9,301
Expenditures for plant and equipment, total.....	737	182	185	6,971	989
Capital expenditures, new.....do.....	674	( <sup>3</sup> )	( <sup>3</sup> )	6,109	973
New structures and additions to plant.....do.....	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	1,529	( <sup>3</sup> )
New machinery and equipment.....do.....	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	4,580	583
Expenditures for used plant and equipment.....do.....	( <sup>3</sup> )	( <sup>3</sup> )	...	862	( <sup>3</sup> )
Horsepower rating of power equipment at end of 1954:					
Horsepower of prime movers and electric motors driven by purchased energy, total.....1,000 hp..	21	2	1	215	32
Engines, etc. driving electric generators.....do.....	2	( <sup>6</sup> )	...	28	5
Engines, etc. not driving electric generators.....do.....	2	( <sup>6</sup> )	( <sup>6</sup> )	18	3
Electric motors driven by purchased energy.....do.....	18	2	1	169	23
Electric motors driven by energy generated at the establishment.....do.....	( <sup>6</sup> )	...	...	18	1

Note: Detailed figures may not add to the totals because of independent rounding. xxx Not applicable. NA Not available. <sup>1</sup>The specialization ratio compares the given industry's shipments of its primary products to its total shipments of all products. (The primary products are listed in Tables 5B and 6A). <sup>2</sup>The coverage ratio measures the extent to which the total shipments of products primary to the given industry are shipped by establishments classified in that industry. <sup>3</sup>Less than \$500 thousand. <sup>4</sup>Less than 500 tons. <sup>5</sup>Less than 500 thousand kwh. <sup>6</sup>Less than 500 hp.

## WOODEN CONTAINERS

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Table 4.--SELECTED STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR THE UNITED STATES: 1954

(Value figures in thousands of dollars. For explanation of line captions see Introduction. Data which cannot be shown without disclosing information for individual companies have been combined with figures for other size classes. A (D) appears in the column where the figure has been omitted and the combined figure is underlined and shown in the size-class to the left)

Ind. code	Industry and item	Total, all estab- lish- ments	Establishments with an average of—									
			1-4 em- ployees	5-9 em- ployees	10-19 em- ployees	20-49 em- ployees	50-99 em- ployees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
2441	Fruit and Vegetable baskets:											
	Number of establishments..	134	27	24	13	30	22	13	4	1	...	...
	Number of employees.....	6,685	54	171	200	984	1,500	1,949	<u>1,825</u>	(D)	...	...
	Value added by manufacture	18,961	222	481	609	2,875	4,335	4,816	<u>5,621</u>	(D)	...	...
2442	Rattan and willow ware:											
	Number of establishments..	75	33	19	6	10	5	2	...	...	...	...
	Number of employees.....	1,293	72	141	83	296	<u>700</u>	(D)	...	...	...	...
	Value added by manufacture	5,329	301	731	334	844	<u>3,117</u>	(D)	...	...	...	...
2443	Cigar boxes:											
	Number of establishments..	23	4	1	5	4	6	3	...	...	...	...
	Number of employees.....	1,081	<u>15</u>	(D)	81	146	426	412	...	...	...	...
	Value added by manufacture	3,988	<u>48</u>	(D)	272	578	1,520	1,568	...	...	...	...
2444	Wooden boxes:											
	Number of establishments..	1,101	336	177	175	216	101	72	19	5	...	...
	Number of employees.....	39,522	757	1,265	2,551	7,158	7,420	10,316	6,611	3,440	...	...
	Value added by manufacture	165,361	3,471	5,930	11,113	31,142	31,668	42,523	25,432	14,079	...	...
2445	Cooperage:											
	Number of establishments..	180	83	46	19	14	6	11	1	...	...	...
	Number of employees.....	3,723	180	330	280	482	491	<u>1,958</u>	(D)	...	...	...
	Value added by manufacture	21,656	1,070	1,635	1,635	2,624	2,535	<u>12,154</u>	(D)	...	...	...

Note: Detailed figures may not add to the totals, because of independent rounding.

## MANUFACTURES--INDUSTRY STATISTICS

Table 5A.—INDUSTRY-PRODUCT ANALYSIS—SUMMARY OF INDUSTRY AND PRIMARY PRODUCT SHIPMENTS, SPECIALIZATION RATIOS AND COVERAGE RATIOS  
FOR THE UNITED STATES: 1954 AND 1947

Industry code	Industry and census year	Value of shipments					Value of primary products shipped			
		Total	Primary products	Secondary products	Miscel- laneous receipts	Primary product speciali- zation ratio <sup>1</sup>	Total (made in all industries)	Made in this industry	Made in other industries	Coverage ratio <sup>2</sup>
		(\$1,000) (A)	(\$1,000) (B)	(\$1,000) (C)	(\$1,000) (D)	Col. B Col. B+C (Percent) (E)	(\$1,000) (F)	(\$1,000) (G)	(\$1,000) (H)	Col. G Col. F (Percent) (I)
2441	Fruit and vegetable baskets...1954..	30,516	27,911	2,579	26	91	31,602	27,911	3,691	88
	1947..	30,584	27,855	2,685	44	91	31,741	27,855	3,886	88
2442	Rattan and willow ware.....1954..	11,017	10,054	963	...	91	10,841	10,054	787	93
	1947..	7,243	6,348	802	93	89	6,823	6,348	475	93
2443	Cigar boxes.....1954..	7,889	7,670	219	...	97	8,172	7,670	502	94
	1947..	8,102	8,067	35	...	100	9,482	8,067	1,415	85
2444	Wooden boxes.....1954..	352,108	324,264	24,895	2,949	93	380,825	324,264	56,561	85
	1947..	365,290	345,619	14,994	4,677	96	407,146	345,619	61,527	85
2445	Cooperage.....1954..	60,350	57,494	2,073	783	97	58,308	57,494	814	99
	1947..	106,379	99,222	4,662	2,495	96	101,981	99,222	2,759	97

<sup>1</sup>The specialization ratio compares the given industry's shipments of its primary products to its total shipments of all products (the primary products are listed in Table 6A; the first 4 digits of the product code represents the industry code to which the product is primary). <sup>2</sup>The coverage ratio measures the extent to which the products primary to the given industry are shipped by the industry.



## WOODEN CONTAINERS

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Table 5B.—INDUSTRY-PRODUCT ANALYSIS—SHIPMENTS BY PRODUCT CLASS AND INDUSTRY, FOR THE UNITED STATES: 1954

(In thousands of dollars. Each column shows for the industry listed in the column heading the value of shipments divided between wooden containers, other products, and miscellaneous receipts. Each figure represents the amount of the product class shown at the left shipped by the industry listed at the top of the column. The first four digits of the product class codes at the left represent the codes of the industries to which they are primary. All other product classes in a column represent products secondary to the specified industry)

Prod. class code		Fruit and vegetable baskets (S.I.C. 2441)	Rattan and willow ware (S.I.C. 2442)	Cigar boxes (S.I.C. 2443)	Wooden boxes (S.I.C. 2444)	Cooperage (S.I.C. 2445)	Sawmills and planing mills (S.I.C. 2421)	Other industries	All industries
	Total industry shipments.....	30,516	11,017	7,889	352,108	60,350	xxx	xxx	xxx
	Wooden containers.....	30,132	10,116	7,718	327,409	57,497	xxx	xxx	xxx
24410	Fruit and vegetable baskets.....	27,911	( <sup>1</sup> )	...	2,898	(D)	380	350	31,602
24420	Rattan and willow ware, except baskets and furniture.....	( <sup>1</sup> )	10,054	...	...	...	...	727	10,841
24430	Cigar boxes, wooden and part wooden	...	...	7,670	(D)	...	...	(D)	8,172
24441	Nailed or lock-corner boxes made from lumber.....	149	...	...	89,019	...	943	7,225	97,336
24442	Nailed or lock-corner boxes made from veneer and plywood.....	( <sup>1</sup> )	...	...	19,355	...	( <sup>1</sup> )	412	19,808
24443	Wirebound boxes made from lumber...	...	...	...	12,312	...	( <sup>1</sup> )	1,863	14,179
24444	Wirebound boxes made from veneer and plywood.....	(D)	...	...	72,932	...	(D)	2,145	76,399
24445	Wood-fiber combination boxes and tobacco hogsheads.....	( <sup>1</sup> )	...	( <sup>1</sup> )	9,587	...	...	(D)	9,809
24446	Box shooks: fruit, vegetable, industrial.....	836	...	...	108,084	...	35,445	4,356	148,721
24440	Wooden boxes, not specified by kind	( <sup>1</sup> )	...	...	12,975	( <sup>1</sup> )	314	1,229	14,573
24451	Slack cooperage.....	...	...	...	(D)	15,164	( <sup>1</sup> )	140	15,310
24452	Tight cooperage.....	...	...	...	(D)	40,830	( <sup>1</sup> )	571	41,424
24450	Cooperage, not specified by kind...	...	...	...	...	1,500	...	( <sup>1</sup> )	1,574
	Other products.....	358	901	171	21,750	2,070	xxx	xxx	xxx
24212	Dressed lumber, except flooring....	...	...	...	4,447	(D)	xxx	xxx	xxx
2431--	Millwork.....	...	...	...	3,596	...	xxx	xxx	xxx
24994	Other wood products.....	(D)	(D)	...	3,682	...	xxx	xxx	xxx
	All other products.....	(D)	(D)	171	10,025	(D)	xxx	xxx	xxx
	Miscellaneous receipts.....	26	...	...	2,949	783	xxx	xxx	xxx
	Other.....	( <sup>1</sup> )	...	...	1,884	783	xxx	xxx	xxx

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>Less than \$100 thousand.

## MANUFACTURES--INDUSTRY STATISTICS

Table CA.--QUANTITY AND VALUE OF PRODUCTS SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, FOR THE UNITED STATES: 1954 AND 1947

Product code	Product	Unit of quantity	Total shipments including interplant transfers							
			1954				1947			
			Quantity	Value (\$1,000)			Quantity	Value (\$1,000)		
				Total	Made from shock produced at same plant	Made from purchased shock		Total	Made from shock produced at same plant	Made from purchased shock
2441---	Fruit and vegetable baskets, total.....		xxx	31,602	xxx	xxx	xxx	31,741	xxx	xxx
2441011	Hampers.....	Thousands.....	20,134	4,892	xxx	xxx	(NA)	22,455	xxx	xxx
2441021	Continuous stave baskets.....	do.....	39,421	9,627	xxx	xxx	xxx	xxx	xxx	xxx
2441031	Short stave baskets.....	do.....	35,984	7,686	xxx	xxx	(NA)	(1)	xxx	xxx
2441041	Berry cups and talls.....	do.....	249,356	3,137	xxx	xxx	(NA)	3,087	xxx	xxx
2441098	Other (including climax and splint baskets) and baskets not specified by kind.....		xxx	6,260	xxx	xxx	(NA)	16,199	xxx	xxx
2442---	Fattan and willow ware, n.e.c., total..		xxx	10,841	xxx	xxx	xxx	6,823	xxx	xxx
2442011	Baskets other than fruit or vegetable baskets (reed, rattan, willow, veneer or splint).....		xxx	8,126	xxx	xxx	xxx	6,823	xxx	xxx
2442038	Other rattan and willow ware products except furniture and baskets.....		xxx	2,715	xxx	xxx			xxx	xxx
2443011	Cigar boxes, wooden and part wooden.	Thousands.....	66,612	8,172	xxx	xxx	(NA)	9,482	xxx	xxx
2444---	Wooden boxes, total.....		xxx	360,825	xxx	xxx	xxx	407,146	xxx	xxx
24441	Nailed or lock-corner boxes made from lumber.....		xxx	97,336	81,966	15,370	(NA)	108,835	88,051	20,784
2444111	For fruits and vegetables.....	Thousand bd. ft.	105,348	15,871	8,265	7,606	(NA)	17,285	6,307	10,978
2444131	For milk bottles and cartons.....	Thousands.....	2,680	7,194	6,367	827				
2444151	For industrial and other uses						(NA)	91,550	81,744	9,806
	Quantity reported.....	Thousand bd. ft.	330,472	56,232	52,510	3,722				
	Quantity not reported.....		xxx	18,039	14,824	3,215				
24442	Nailed or lock-corner boxes made from veneer and plywood.....		xxx	19,808	17,445	2,353	xxx	23,435	20,888	2,547
2444211	For fruits and vegetables.....		(NA)	3,560	2,806	754	(NA)	6,798	6,116	682
2444251	For industrial and other uses.....	Thousand bd. ft.	86,880	16,248	14,649	1,599	(NA)	16,637	14,772	1,865
2444311	Wirebound boxes made from lumber....	Thousands.....	8,946	14,179	13,896	283	(NA)	24,954	21,525	3,429
24444	Wirebound boxes made from veneer and plywood.....		xxx	76,399	67,074	9,325	xxx	48,065	46,845	1,220
2444411	For fruits and vegetables.....	Thousands.....	100,664	36,294	32,804	3,490	(NA)	10,177	9,681	496
2444431	For meat (other than canned).....	do.....	15,255	7,782	3,811	3,971				
2444451	For poultry.....	do.....	29,188	10,703	10,690	13	(NA)	37,888	37,164	724
2444471	For industrial and other uses.....	do.....	22,241	21,620	19,769	1,851				
24445	Wood and fiber combination boxes, and tobacco hogsheads.....		xxx	9,809	5,979	3,364	xxx	13,387	13,139	248
2444511	Combination wood and fiber boxes.		(NA)	9,343	5,979	3,364	(NA)	13,387	13,139	248
2444521	Tobacco hogsheads.....	Number.....	(NA)	466	xxx	xxx	(NA)	(NA)	(NA)	(NA)
24446	Box shock: fruit, vegetable, industrial, etc.....		xxx	148,721	xxx	xxx	xxx	159,889	xxx	xxx
2444611	Lumber:									
	For fruits and vegetables.....	Thousand bd. ft..	567,240	55,635	xxx	xxx	(NA)	43,701	xxx	xxx
2444615	For industrial and other uses.	do.....	440,502	52,929	xxx	xxx	(NA)	51,151	xxx	xxx
2444631	Veneer:									
	For fruits and vegetables.....	do.....	55,199	9,672	xxx	xxx	(NA)	9,605	xxx	xxx
2444633	For meat (other than canned).....	do.....	18,566	3,690	xxx	xxx				
2444635	For industrial and other uses:						(NA)	2,839		
2444637	Quantity reported.....	do.....	40,679	7,128	xxx	xxx			xxx	xxx
	Quantity not reported.....		xxx	715	xxx	xxx			xxx	xxx
2444651	Plywood:									
2444653										
2444655	For industrial and other uses.	do.....	2109,525	212,782	xxx	xxx	xxx	228,537	xxx	xxx
2444657										
2444698										
2444600	Box shock: fruit, vegetable, industrial, etc. not specified by kind.....		xxx	6,170	xxx	xxx	xxx	24,056	xxx	xxx
2444699										
2444000	Boxes, not specified by kind <sup>3</sup> .....		xxx	14,573	xxx	xxx	xxx	28,581	xxx	xxx

See footnotes at end of table.

## WOODEN CONTAINERS

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Table 6A.--QUANTITY AND VALUE OF PRODUCTS SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, FOR THE UNITED STATES: 1954 AND 1947--Continued

Product code	Product	Unit of quantity	Total shipments including interplant transfers							
			1954						1947	
			Quantity	Value (\$1,000)			Quantity	Value (\$1,000)		
				Total	Made from shock produced at same plant	Made from purchased shock		Total	Made from shock produced at same plant	Made from purchased shock
2445--	Cooperage, total.....	.....	xxx	58,308	xxx	xxx	xxx	101,981	xxx	xxx
24451	Slack cooperage.....	.....	xxx	15,310	xxx	xxx	xxx	30,455	xxx	xxx
	Hogsheads, barrels, and kegs for:									
2445111	Food and food products.....	Thousand units...	2,760	4,651	xxx	xxx	3,207	5,261	xxx	xxx
2445121	Chemicals.....	....do.....	861	1,489	xxx	xxx	1,034	1,654	xxx	xxx
2445131	Hardware, wire, and metal products.....	....do.....	8,136	3,558	xxx	xxx	10,378	5,423	xxx	xxx
2445141	Nails.....	....do.....	7,330	3,078	xxx	xxx	8,661	3,287	xxx	xxx
2445151	Other products.....	....do.....	xxx	2,441	xxx	xxx	11,319	14,447	xxx	xxx
2445161	Recoopered used slack barrels and kegs.....	.....	NA	93	xxx	xxx	332	422	xxx	xxx
24452	Tight cooperage .....	.....	xxx	41,724	xxx	xxx	xxx	68,360	xxx	xxx
	Hogsheads, barrels, and kegs for:									
2445211	Bourbon and other whiskey....	Thousand units...	1,762	34,010	xxx	xxx	3,115	45,636	xxx	xxx
2445215	Food and food products.....	....do.....	93	4,478	xxx	xxx	42,741	415,654	xxx	xxx
2445217	Chemicals, inedible oils, and greases.....	....do.....	183	734	xxx	xxx	440	2,161	xxx	xxx
2445221	Other products.....	....do.....	NA	632	xxx	xxx	346	1,829	xxx	xxx
2445231	Tubs, pails, kits, buckets, firkins, etc.....	.....	(NA)	(D)	xxx	xxx	2,677	2,270	xxx	xxx
2445241	Recoopered used tight barrels, kegs, tubs, etc.....	.....	(NA)	(D)	xxx	xxx	360	810	xxx	xxx
2445000	Cooperage, not specified by kind <sup>3</sup> ...	.....	xxx	1,574	xxx	xxx	xxx	3,168	xxx	xxx

xxx Not applicable.

D Withheld to avoid disclosing figures for individual companies.

NA Not available.

<sup>1</sup>Continuous and short stave baskets are assumed to have been included with other baskets (code 2441098) in 1947.<sup>2</sup>Data for 1947 include a small amount of fruit and vegetable shock. Data for 1954 do not include fruit and vegetable, meat, or poultry shock as none was reported.<sup>3</sup>Largely accounted for by small establishments that were not asked to report a breakdown of total shipments.<sup>4</sup>Includes barrels and kegs for beer, ale, spirits, and wine.



## MANUFACTURES--INDUSTRY STATISTICS

Table 6B.--VALUE OF PRODUCT CLASSES SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, BY DIVISIONS AND STATES FOR 1954, AND UNITED STATES TOTALS FOR EARLIER YEARS

(In thousands of dollars. Statistics are shown for selected product classes which are economically significant and production of which is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (Table 2) and they are not miscellaneous or "not specified by type" classes. For each product class, States are listed only if the value of shipments is more than \$1 million and the figure does not disclose individual company information. Additional States which had shipments of more than \$1 million of the individual product classes are listed in footnote 1)

Product class, region, and State <sup>1</sup>	Value of shipments	Product class, region, and State <sup>1</sup>	Value of shipments	Product class, region, and State <sup>1</sup>	Value of shipments
<u>Nailed or lock-corner boxes made from lumber (24441)</u>		<u>Nailed or lock-corner boxes made from lumber (24441)--Continued</u>		<u>Box shook: fruit, vegetable, industrial (24446)--Continued</u>	
1954 United States, total.....	97,336	Pacific.....	13,205	Middle Atlantic.....	5,381
1953 United States, total.....	( <sup>2</sup> )	California.....	11,021	New York.....	1,916
1952 United States, total.....	( <sup>2</sup> )	Wirebound boxes made from veneer and plywood (24444)		New Jersey.....	2,412
1951 United States, total.....	( <sup>2</sup> )	1954 United States, total.....	76,399	Pennsylvania.....	1,052
1950 United States, total.....	( <sup>2</sup> )	1947 United States, total.....	48,065	East North Central.....	12,207
1947 United States, total.....	108,835			Ohio.....	1,338
1954		1954		Indiana.....	1,615
New England.....	8,079	Northeast.....	4,841	Illinois.....	3,725
New Hampshire.....	2,580	New Jersey.....	4,018	Michigan.....	2,567
Massachusetts.....	3,713	East North Central.....	7,836	Wisconsin.....	2,962
Connecticut.....	1,107	Ohio.....	4,249	West North Central.....	4,026
Middle Atlantic.....	15,594	Illinois.....	2,454	Minnesota.....	3,323
New York.....	6,931	West North Central.....	2,812	South Atlantic.....	26,134
New Jersey.....	4,117	South Atlantic.....	26,972	Georgia.....	8,888
Pennsylvania.....	4,546	Georgia.....	10,857	North Carolina.....	5,003
East North Central.....	18,014	Florida.....	12,302	Georgia.....	7,215
Ohio.....	4,829	East South Central.....	14,769	Florida.....	3,999
Indiana.....	1,965	Alabama.....	2,342	East South Central.....	12,355
Illinois.....	4,534	Mississippi.....	10,331	Tennessee.....	1,088
Michigan.....	3,883	West South Central.....	10,866	Alabama.....	2,082
Wisconsin.....	2,802	Texas.....	5,620	Mississippi.....	9,025
West North Central.....	12,514	Pacific.....	8,303	West South Central.....	8,521
Minnesota.....	3,297	<u>Box shook: fruit, vegetable, industrial (24446)</u>		Arkansas.....	5,638
Iowa.....	1,643	1954 United States, total.....	148,721	Louisiana.....	1,722
Missouri.....	3,949	1953 United States, total.....	174,288	Mountain.....	6,004
Nebraska.....	1,827	1952 United States, total.....	178,391	Idaho.....	2,295
South Atlantic.....	11,748	1951 United States, total.....	194,084	Colorado.....	2,005
Maryland.....	2,910	1947 United States, total.....	3159,889	Arizona.....	1,045
North Carolina.....	2,751	1954		Pacific.....	62,155
Georgia.....	1,939	New England.....	11,938	Washington.....	14,494
Florida.....	1,020	Maine.....	3,683	Oregon.....	11,527
East South Central.....	8,916	New Hampshire.....	3,228	California.....	36,134
Tennessee.....	4,313	Massachusetts.....	3,113		
Alabama.....	4,296				
West South Central.....	5,226				
Texas.....	4,175				
Mountain.....	4,040				

NOTE: The figures shown for 1950 to 1953 are sample estimates obtained from the Annual Survey of Manufactures for those years. Since the estimates are based on a sample they are subject to sampling variability, that is, they are not the same as figures which would have been obtained if complete censuses had been taken for those years. Measures of the sampling variability (standard errors) of the estimated total value of shipments of each product class are shown in the Annual Survey of Manufactures publications. Also shown are the standard errors of the relative change in shipments between some consecutive Annual Survey years which are the more significant measures when the series is studied for trend.

<sup>1</sup>For the specified product classes, shipments of over \$1 million were reported for the States listed but the exact figures are withheld to avoid disclosure of individual company figures: 24441, Kansas, South Carolina, Arizona, and Oregon; 24444, Iowa, Missouri, Virginia, South Carolina, Kentucky, Tennessee, Louisiana, Oregon, and California.

<sup>2</sup>Figures not available. In the years 1950-1953, nail and lock-corner boxes were classified according to end use; those for fruits and vegetables comprised one product class; those for industrial and other uses comprised another. Figures for the latter did not meet publication standards for the years 1950-1953. Figures for nail and lock-corner boxes for fruits and vegetables did not meet publication standards for 1953. Values for other years were: 1952, \$26,718; 1951, \$27,719; 1950, \$27,322.

<sup>3</sup>In addition to the value shown by product class for Industry 2444, Wooden Boxes, not specified by kind, in the value of \$28,580 thousand were reported for 1947 and \$14,573 thousand for 1954.

## WOODEN CONTAINERS

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Table 7.—MATERIALS CONSUMED, BY KIND: 1954 AND 1947

Code	Description of materials	Unit of quantity	1954			1947	
			Received from other establishments		Quantity produced and consumed in the same establishment	Received from other establishments	
			Quantity	Delivered cost (\$1,000)		Quantity	Delivered cost (\$1,000)
	INDUSTRY 2441—FRUIT AND VEGETABLE BASKETS						
	Materials, containers, and supplies, total.....		xxx	11,202	xxx	xxx	xxx
081111	Stumpage cut—current value.....		xxx	231	xxx	xxx	xxx
241111	Logs and bolts.....	Thousand feet log scale.	79,927	4,186	13,018	xxx	xxx
242111	Rough lumber:						
242115	Hardwood and softwood.....	Thousand board feet.	27,010	486	9,231	xxx	xxx
242121	Dressed lumber:						
242125	Hardwood and softwood.....	...do.....	13,148	255	xxx	xxx	xxx
242211	Container and flat veneer:						
242215	Hardwood.....	...do.....	9,363	604	3,245	xxx	xxx
242215	Softwood.....	Thous. sq. ft. 1" basis.	5,378	263	2,393	xxx	xxx
970000	All other materials, and components, containers, and supplies consumed, including materials, etc., not specified by kind.....		xxx	5,077	xxx	xxx	xxx
	INDUSTRY 2443—CIGAR BOXES						
	Materials, containers, and supplies, total.....		xxx	3,839	xxx	xxx	3,372
242121	Dressed lumber:						
242125	Hardwood and softwood.....	Thousand board feet.	9,428	942	xxx	7,169	(NA)
242211	Veneer (all types)?.....	Thous. sq. ft. surf. meas.	...	...	xxx	12,586	(NA)
242215							
242231							
242235							
970000	All other materials and components, containers, and supplies, including materials, etc., not specified by kind.....		xxx	2,897	xxx	xxx	xxx
	INDUSTRY 2444—WOODEN BOXES						
	Materials, containers, and supplies, total.....		xxx	181,647	xxx	xxx	180,326
081111	Stumpage cut—current value.....		xxx	3,650	(?)	xxx	xxx
241111	Logs and bolts.....	Thousand feet log scale	246,695	12,571	141,046	xxx	xxx
242111	Rough lumber:						
242115	Hardwood.....	Thousand board feet.	298,818	17,716	84,544	1,909,569	(NA)
242115	Softwood.....	...do.....	519,144	32,330	79,278		
242121	Dressed lumber:						
242125	Hardwood.....	...do.....	144,971	10,537	xxx	150,324	(NA)
242125	Softwood.....	...do.....	288,327	21,860	xxx		
242211	Container and flat veneer:						
242211	Hardwood.....	...do.....	127,845	12,964	(NA)	51,805,369	(NA)
242215	Softwood.....	...do.....	xxx	2,413			
242231	Veneer (other than container and flat):						
242235	Hardwood and softwood.....	...do.....	xxx	228	xxx		
243211	Plywood:						
243211	Hardwood:						
243211	Veneer core.....	Thousand sq. ft. surf. meas.	43,256	2,987	100,073	6494,803	(NA)
243213	Lumber core.....	...do.....	652	303	xxx		
243215	Softwood.....	Thous. sq. ft. 3/8" basis.	17,532	1,553	(D)		
970000	All other materials and components, containers, and supplies.....		xxx	62,535	xxx	xxx	xxx

See footnotes at end of table.

## MANUFACTURES—INDUSTRY STATISTICS

Table 7.—MATERIALS CONSUMED, BY KIND: 1954 AND 1947—Continued

Code	Description of materials	Unit of quantity	1954			1947	
			Received from other establishments		Quantity produced and consumed in the same establishment	Received from other establishments	
			Quantity	Delivered cost (\$1,000)		Quantity	Delivered cost (\$1,000)
	INDUSTRY 2445—COOPERAGE						
	Materials, containers, and supplies, total.....	.....	xxx	38,089	xxx	xxx	xxx
081111	Stumpage cut—current cost.....		xxx	(3)	xxx	xxx	xxx
241111	Logs and bolts.....	Thous. bd. ft. log scale.	18,525	858	1,929	xxx	xxx
242111	Rough lumber:						
242115	} Hardwood and softwood <sup>7</sup> .....	Thousand board feet.	31,586	4,612	4,107	xxx	xxx
242121	Dressed lumber:						
242125	} Hardwood and softwood <sup>7</sup> .....	...do.....	22,981	3,738	xxx	xxx	xxx
970000	All other materials and components, containers and supplies.....	.....	xxx	28,856	xxx	xxx	xxx

xxx Not applicable.

D Withheld to avoid disclosure

NA Not available.

<sup>1</sup>In 1947, establishments reported 25,741,000 board feet of lumber consumption. This total included lumber produced from logs and bolts and consumed at the same establishment as well as the lumber purchased and consumed at that establishment.

<sup>2</sup>1947 data were reported in terms of surface measure. In 1954 no quantity of veneer was reported as purchased by establishments classified by this industry.

<sup>3</sup>Less than \$100 thousand.

<sup>4</sup>Includes lumber produced from logs and bolts and consumed at the same establishment as well as lumber purchased and consumed at that establishment.

<sup>5</sup>Includes veneer produced from logs and bolts and consumed at the same establishment as well as veneer purchased and consumed at that establishment. The 1947 data also lack comparability on the basis of the unit measure used since in 1947 all veneer consumption was reported to terms of surface measure without conversion to a standard thickness.

<sup>6</sup>Includes plywood produced and consumed at the same establishment as well as plywood purchased and consumed at that establishment. The 1947 data were reported in terms of face area without conversion to a standard thickness.

<sup>7</sup>Consumption of lumber was reported separately as between hardwoods and softwoods, but the totals have been combined to avoid disclosure of the figures of individual companies. Hardwoods represented between 75 and 90 percent of these combined figures.



## WOODEN CONTAINERS

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Table 8.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY INDUSTRY SPECIALIZATION AND PRIMARY PRODUCT CLASS SPECIALIZATION, FOR THE UNITED STATES: 1954

(This table presents selected statistics for establishments classified according to their degree of specialization in products primary to the industry. The establishments are classified in two ways: (1) by industry specialization—the degree of specialization in all primary products of the industry; and (2) by product-class specialization—the degree of specialization in the largest product class of the establishment. The degree of "industry specialization" for an establishment represents the ratio of its primary product shipments to its total product shipments, primary and secondary. The degree of "product-class specialization" for an establishment represents the ratio of its largest product class shipments to its total product shipments, primary and secondary. Data are not shown for some industries, product classes, and specialization ranges for a variety of reasons, consequently, detailed figures frequently do not add to the totals. See Introduction for detailed explanation)

Ind. or product class No.	Industry or product class by percent of specialization	Establishments, number	All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
2444	WOODEN BOXES (entire industry).....	1,101	39,522	105,781	35,871	70,136	86,643	165,361	186,754	352,108
	Establishments with:									
	90% or more specialization.....	918	31,074	81,387	28,322	55,082	66,764	128,235	145,259	273,487
	75-89% specialization.....	64	4,578	13,182	4,102	8,293	10,750	21,085	17,912	38,998
	50-74% specialization.....	80	2,878	8,630	2,564	5,046	7,028	13,206	19,384	32,590
	All other <sup>1</sup> .....	39	992	2,582	881	1,713	2,100	2,833	4,198	7,032
24441	Nailed or lock-corner boxes made from lumber: All establishments specializing in product class.	356	10,427	29,677	9,274	18,134	23,512	44,832	56,973	101,804
	Establishments with:									
	90% or more specialization.....	250	5,807	15,744	5,227	10,205	12,798	24,653	30,497	55,150
	75-89% specialization.....	33	1,321	3,868	1,158	2,239	2,948	5,532	7,115	12,648
	50-74% specialization.....	56	2,691	8,008	2,368	4,632	6,155	11,888	16,559	28,447
	Less than 50% specialization.....	17	607	2,056	520	1,056	1,610	2,757	2,801	5,559
24442	Nailed or lock-corner boxes made from veneer and plywood: All establishments specializing in product class.	71	2,239	6,053	2,020	4,056	4,943	9,627	9,350	18,977
	Establishments with:									
	90% or more specialization.....	51	1,521	3,974	1,393	2,845	3,357	6,382	6,497	12,880
	75-89% specialization.....	5	206	663	170	349	472	1,155	916	2,072
	50-74% specialization.....	9	322	948	281	571	721	1,418	1,314	2,733
	Less than 50% specialization.....	6	188	467	175	289	391	670	621	1,292
24443	Wire bound boxes made from lumber: All establishments specializing in product class.	15	1,214	3,288	1,075	2,197	2,646	5,032	3,862	8,894
	Establishments with:									
	90% or more specialization.....	11	529	1,676	470	956	1,297	2,746	2,278	5,024
24444	Wire bound boxes made from veneer and plywood: All establishments specializing in product class.	79	9,814	23,538	9,119	17,895	19,645	41,803	38,223	80,027
	Establishments with:									
	90% or more specialization.....	62	6,597	14,333	6,194	11,827	12,058	25,286	25,937	51,223
	75-89% specialization.....	9	2,024	6,376	1,826	3,831	5,269	12,253	7,603	19,856
24445	Wood-fiber combination boxes & tobacco hogsheads: All establishments specializing in product class.	24	743	2,239	645	1,261	1,619	3,208	5,090	8,299
	Establishments with:									
	90% or more specialization.....	16	291	801	260	487	626	1,310	2,560	3,870
24446	Box shook: fruit, vegetable, industrial: All establishments specializing in product class.	305	13,388	36,407	12,220	23,621	30,624	53,264	64,880	118,144
	Establishments with:									
	90% or more specialization.....	227	8,536	22,404	7,869	14,747	19,048	33,915	43,703	77,619
	75-89% specialization.....	29	1,112	3,092	983	1,838	2,386	4,274	5,044	9,319
	50-74% specialization.....	39	3,011	8,916	2,718	5,689	7,549	13,234	11,990	25,225
	Less than 50% specialization.....	10	728	1,994	648	1,345	1,639	4,142	4,142	5,981
2445	COOPERAGE (entire industry).....	180	3,723	12,350	3,377	6,497	10,507	21,656	38,693	60,350
	Establishments with:									
	90% or more specialization.....	165	3,292	11,048	2,977	5,700	9,391	19,059	36,202	55,261
24451	Slack cooperage: All establishments specializing in product class.	115	889	2,899	804	1,578	2,464	5,211	10,333	15,545
	Establishments with:									
	90% or more specialization.....	111	807	2,625	731	1,417	2,220	4,652	9,376	14,029
24452	Tight cooperage: All establishments specializing in product class.	39	2,679	8,925	2,433	4,653	7,595	15,635	26,247	41,882
	Establishments with:									
	90% or more specialization.....	30	2,206	7,555	1,991	3,787	6,423	13,072	24,463	37,535
	75-89% specialization.....	4	148	405	140	270	356	544	520	1,064

<sup>1</sup>This class includes data for establishments with less than 50% specialization in the primary products of the industry and establishments engaged exclusively in contract work defined in the industry. Miscellaneous small statistical adjustments are also included.



## Miscellaneous Wood Products

This report shows 1954 Census of Manufactures statistics for establishments classified in each of the following industries:

Code	Title
2491—Wood Preserving	
2492—Lasts and Related Products	
2493—Mirror and Picture Frames	
2499—Wood Products, Not Elsewhere Classified	

### 2491—Wood Preserving

This industry comprises establishments primarily engaged in treating wood (sawed or planed in other establishments) with creosote or other preservatives to prevent decay and to protect against fire and insects. Establishments primarily engaged in manufacturing wood products which they may also treat with preservatives are not included in this industry.

In 1954, as in previous Census years, establishments in Industry 2491 reported, in addition to their receipts from sales and transfers of wood owned and treated by the establishment, their receipts for treating wood owned by other establishments. (Receipts in the latter category are shown in Table 5B.) However, in 1947, establishments in Industry 2491 had been instructed to include receipts for custom-treating in their product shipments and to arrive at a total "value of products shipped" by adding in the "estimated value of (such) wood before treatment." In order to determine the industry's value added by manufacture, these estimated values were also added to the cost of materials.

In recognition of the fact that estimates by Industry 2491 establishments of the value of wood owned by others, before treatment, could at best be approximated, a new method of reporting was adopted for the 1954 Census to secure more realistic estimates of the value of products shipped by the Wood Preserving Industry without sacrifice in the accuracy of Census estimates of the industry's value added by manufacture. In 1954 establishments in Industry 2491 were instructed to report, as product shipments, only their receipts from the sale and transfer of wood owned and treated by them; receipts for treating wood owned by others were to be reported as services performed on a custom basis. The effect of the change from 1947, in the statistics presented for Industry 2491, is to reduce the reported value of products shipped for a given level of economic activity, and to leave essentially unchanged the estimates of value added by manufacture. (See footnotes to Tables 1 and 5A, and for a restatement of product shipments on the new basis, see Table 6.)

The value of shipments of Industry 2491, Wood Preserving, in 1954 totaled \$190 million. This included shipments of primary products (shipments of wood owned and treated by the same establishment and receipts for treating wood owned by others) valued at \$181 million, shipments of secondary products valued at \$6 million, and miscellaneous receipts, \$3 million.

Industry 2491 shipments of primary products in 1954 represented 97 percent of its total shipments (primary and secondary). In 1947 this primary product specialization ratio was approximately the same.

Industry 2491 shipments of primary products in 1954 represented 99 percent of these products, valued at \$183 million, shipped by all manufacturing industries. This coverage ratio was approximately the same in 1947. The only other industry shipping any volume of treated wood products in 1954 was Industry 2421, Sawmills and Planing Mills, \$1 million.

### 2492—Lasts and Related Products

This industry comprises establishments primarily engaged in manufacturing lasts for boots and shoes, last sole patterns, shoe trees and stretchers, and display forms for boots and shoes, regardless of the material used. For a detailed list of primary products of Industry 2492, refer to Table 6, product codes 2492011 to 2492061.

The value of shipments of Industry 2492, Lasts and Related Products, in 1954 totaled \$12 million. This included shipments of primary products (lasts and related products) valued at nearly \$12 million; shipments of secondary products and miscellaneous receipts were negligible.

Industry 2492 shipments of lasts and related products in 1954 represented 99 percent of its total product shipments (primary and secondary). In 1947, this primary product ratio was approximately the same.

Industry 2492 shipments of lasts and related products in 1954 represented 95 percent of those products, valued at \$12 million, shipped by all industries. This coverage ratio was approximately the same in 1947.

### 2493—Mirror and Picture Frames (Full Standard Industrial Classification Title: Mirror Frames and Picture Frames)

This industry comprises establishments primarily engaged in manufacturing finished picture-frame moldings; in manufacturing frames for mirrors, pictures, photographs, and medallions; and in framing pictures for the trade.

Establishments primarily engaged in manufacturing mirror glass are classified in Industry 3231, Glass Products Made of Purchased Glass. Establishments primarily engaged in the framing of pictures to individual order are classified as non-manufacturing. For a detailed list of primary products of Industry 2493, refer to Table 6, product codes 2493011 to 2493051.

Some duplication occurs in reporting the value of products and cost of materials for this industry, since the value of finished moldings or frames is, in some cases, duplicated in the cost of materials and value of shipments reported by manufacturers of assembled framed pictures. The extent of such duplication cannot be determined on the basis of the information reported.

The value of shipments of Industry 2493, Mirror and Picture Frames, in 1954 totaled \$48 million. This included shipments of primary products (mirror and picture frames) valued at \$42 million, shipments of secondary products valued at \$5 million, and miscellaneous receipts of \$1 million.

Industry 2493 shipments of mirror and picture frames in 1954 represented 89 percent of its total product shipments (primary and secondary). In 1947, this primary products specialization ratio was also 89 percent. Secondary products shipped by Industry 2493 in 1954 consisted mainly of mirrors and other glass products made of purchased glass, \$2 million, and wood household furniture, except upholstered, \$2 million.

Industry 2493 shipments of mirror and picture frames in 1954 represented 93 percent of the mirror and picture frames valued at \$45 million, shipped by all manufacturing industries. This coverage ratio in 1947 was 92 percent. The balance of the production of mirror and picture frames is distributed over many manufacturing industries, principally those in Major Group 24, Lumber and Wood Products, and Major Group 25, Furniture and Fixtures, with no single industry accounting for a significant percentage. (As previously noted, the above data exclude the



production of mirror and picture frames to individual order by establishments in trade industries. The volume of such production is not known.)

#### 2499—Wood Products, Not Elsewhere Classified

This industry comprises establishments primarily engaged in turning and shaping wood and manufacturing miscellaneous wood products not elsewhere classified, such as wooden abacuses, bakers' wooden equipment, battery separators, carvings, clothespins, clothwinding reels, cross arms, dishes and other household and kitchen woodenware, dowels and dowel pins, flagpoles, wood flour, furniture turnings, wooden handles, garment hangers, ladders, letters, marquetry, oars, pegs, pencil slats, potato mashers, rolling pins, scaffolds, stepladders, tailors' pressing blocks, toilet seats, toothpicks, trays, inlaid veneer work, washboards (wooden and part wooden), wood pallets and skids, curtain stretchers, fences and gates, pump rods, rulers, signboards, and snow fence. For a list of the primary products of Industry 2499 on which detailed statistics have been reported in 1954, refer to Table 6, product codes 2499111 to 2499498.

The definition of Industry 2499 has been broadened significantly since 1947. In 1954, establishments primarily engaged in producing the following two important product items were transferred to Industry 2499 by the Bureau of the Budget in amendments to the Standard Industrial Classification: wood pallets and skids, including wood and metal combination (previously classified in Industry 3565, Industrial Trucks and Tractors) and snow fence (previously classified in Industry 2421, Sawmills and Planing Mills). Establishments primarily engaged in manufacturing textile machinery turnings and shapes (bobbins, spools, shuttles, picker sticks, etc.) formerly included in Industry 2499 are now classified in Industry 3552, Textile Machinery. Since the values of the products added to Industry 2499 were not reported separately in 1947, the 1947 data cannot be retabulated to reflect these changes. The statistics for Industry 2499 shown in Tables 1-5 are therefore not strictly comparable for 1954 and 1947.

Establishments primarily engaged in manufacturing the following turned and shaped wood products and miscellaneous wood products are classified outside Major Group 24:

<u>Product Description</u>	<u>Industry Classification</u>
Wood blocks for engravers	3555—Printing-Trades Machinery
Wood costume jewelry	3961—Costume Jewelry
Wood heels and heel blocks	3131—Footwear Cut Stock
Wood patterns, industrial	3594—Industrial Patterns and Molds
Wooden shoes	3141—Footwear, Except Rubber
Wooden toys, exc. dolls & children's vehicles	3941—Games and Toys, N.E.C.
Wooden wagons & other children's vehicles	3943—Children's Vehicles

The value of shipments of Industry 2499, Wood Products, N.E.C., in 1954 totaled \$330 million. This included shipments of primary products (wood products, n.e.c.) valued at \$298 million, shipments of secondary products valued at \$29 million, and miscellaneous receipts of \$3 million.

Industry 2499 shipments of primary products in 1954 represented 91 percent of its total product shipments (primary and secondary). In 1947 this primary product specialization ratio was 87 percent. Secondary products shipped by Industry 2499 in 1954 consisted mainly of rough and dressed lumber and hardwood dimension stock, \$5 million; wooden boxes, \$3 million; wood household furniture, except upholstered, \$2 million; millwork, \$2 million; games and toys, \$2 million; and plastic products, n.e.c., \$2 million.

Industry 2499 shipments of primary products (wood products, n.e.c.) in 1954 represented 87 percent of these products, valued at \$340 million, shipped by all industries. This coverage ratio in 1947 was 94 percent. Other industries shipping wood products, n.e.c., in 1954 consisted mainly of Industry 2421, Sawmills and Planing Mills, \$9 million; Industry 2444, Wooden Boxes (Except Cigar Boxes), \$5 million; Industry 2541, Partitions and Fixtures, \$5 million; and Industry 2511, Wood Household Furniture, Except Upholstered, \$4 million.

The general statistics (employment, payrolls, value of shipments, cost of materials, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products, and, for that matter, their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (Tables 1-4) with product statistics (Table 6) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in Table 5A which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry made as secondary products by establishments classified in other industries.

## MISCELLANEOUS WOOD PRODUCTS

24D-3

Table 1.—GENERAL STATISTICS FOR THE UNITED STATES: 1954 AND EARLIER YEARS

(For explanation of column captions see Introduction)

Industry and census year	Establishments, number	All employees		Production workers		Value added by manufacture <sup>2</sup>	Cost of materials, etc.	Value of shipments <sup>3</sup>
		Number <sup>1</sup>	Payroll (\$1,000)	Number <sup>1</sup>	Wages (\$1,000)			
Wood preserving (S.I.C. 2491):								
1954.....	288	12,073	36,162	10,409	28,020	69,257	421,245	490,503
1953 <sup>5</sup> .....	(NA)	13,261	40,616	11,955	32,930	89,035	(4)	(4)
1952 <sup>5</sup> .....	(NA)	16,538	49,841	14,609	40,216	96,304	(4)	(4)
1951 <sup>5</sup> .....	(NA)	15,606	44,658	13,983	36,486	95,073	(4)	(4)
1950 <sup>5</sup> .....	(NA)	13,477	32,465	12,009	26,132	78,418	(4)	(4)
1949 <sup>5</sup> .....	(NA)	14,182	33,727	12,753	27,425	68,494	(4)	(4)
1947.....	242	16,247	37,142	14,772	32,020	92,041	(4)	(4)
1939.....	218	12,623	12,206	11,242	9,764	28,818	}	}
1937.....	197	13,351	13,291	12,401	11,338	32,016		
1935 <sup>5</sup> .....	185	9,833	8,302	8,985	6,639	20,587		
1933.....	185	7,700	5,475	7,027	4,233	12,858		
1931.....	211	(NA)	(NA)	9,700	8,214	21,373	}	}
1929.....	199	14,490	18,562	13,077	14,940	43,242		
1927.....	193	13,720	17,016	12,259	13,726	43,003		
1925.....	131	9,468	11,767	8,416	9,606	24,475		
1923.....	103	7,524	8,918	6,520	6,878	20,944	50,139	71,083
1921.....	78	4,685	5,775	4,153	4,502	12,990	34,432	47,422
1919.....	73	4,614	5,636	3,978	4,342	9,997	23,242	33,239
1914.....	68	3,451	2,728	2,830	1,785	4,995	16,060	21,055
1909.....	53	2,784	1,583	2,403	1,066	4,771	9,328	14,099
1904.....	26	852	473	737	315	905	2,463	3,368
1899.....	21	532	262	478	205	571	1,825	2,396
Lasts and related products (S.I.C. 2492):								
1954.....	51	1,463	5,640	1,220	4,190	8,210	3,742	11,953
1952 <sup>5</sup> .....	(NA)	1,392	4,844	1,205	3,594	6,950	3,555	10,505
1951 <sup>5</sup> .....	(NA)	1,500	4,896	1,295	3,546	7,120	3,858	10,978
1950 <sup>5</sup> .....	(NA)	1,542	4,650	1,295	3,343	6,978	3,550	10,528
1949 <sup>5</sup> .....	(NA)	1,650	4,439	1,411	3,341	6,938	3,060	9,998
1947.....	50	1,959	5,348	1,699	4,159	8,937	4,192	13,129
1939.....	48	1,848	2,850	1,519	1,995	4,646	2,026	6,672
1937.....	48	1,705	2,501	1,444	1,833	3,809	1,624	5,433
1935.....	48	1,745	2,566	1,496	1,911	4,062	1,459	5,521
1933.....	47	1,572	2,006	1,404	1,687	3,736	1,308	5,044
1931.....	51	(NA)	(NA)	1,497	2,020	4,064	1,683	5,747
1929.....	58	2,065	3,489	1,760	2,569	5,375	2,315	7,690
1927.....	59	2,047	3,409	1,718	2,504	5,024	2,505	7,529
1925.....	62	2,398	4,031	2,035	3,012	6,252	3,049	9,301
1923.....	64	2,706	4,325	2,258	3,123	6,703	3,197	9,900
1921.....	67	3,031	4,591	2,618	3,492	8,041	4,336	12,377
1919.....	64	3,301	4,526	2,910	3,416	8,538	3,933	12,471
1914.....	66	2,443	2,113	2,094	1,511	3,246	1,343	4,589
1909.....	60	1,982	1,615	1,728	1,203	2,835	1,324	4,159
1904.....	55	1,394	1,021	1,208	798	1,752	768	2,520
1899.....	65	1,228	758	1,131	650	1,353	527	1,880
Mirror and picture frames (S.I.C. 2493):								
1954.....	343	5,214	17,351	4,420	12,520	27,601	20,020	47,622
1947.....	246	3,811	10,255	3,293	7,742	15,506	10,049	25,555
1939.....	182	3,951	4,627	3,220	3,065	7,679	5,571	13,250
1937.....	163	3,920	4,654	3,382	3,433	7,533	5,234	12,767
1935.....	169	3,199	3,544	2,677	2,552	5,675	4,177	9,852
1933.....	138	2,748	2,268	2,403	1,847	4,284	2,823	7,107
1931.....	160	(NA)	(NA)	3,113	3,492	7,366	3,780	11,146
1929.....	178	5,127	7,959	4,446	5,752	12,705	6,533	19,238
1927.....	166	5,089	7,642	4,460	5,893	12,433	7,056	19,489
1925.....	162	4,889	7,380	4,230	5,646	12,335	6,835	19,170
1923.....	223	5,147	7,291	4,496	5,761	12,463	6,178	18,641
1921.....	259	4,438	6,147	3,846	4,879	9,804	5,644	15,448
1919.....	429	5,531	6,501	4,708	4,775	11,158	7,227	18,385
1914.....	438	5,662	3,928	4,787	2,850	6,546	4,468	11,014
1909.....	437	7,039	4,380	6,021	3,261	7,950	5,525	13,475
1904.....	442	7,609	4,269	6,625	3,315	8,295	4,975	13,270
1899.....	362	6,913	3,339	6,029	2,550	6,118	4,729	10,847

See footnotes at end of table.

## MANUFACTURES--INDUSTRY STATISTICS

Table 1.--GENERAL STATISTICS FOR THE UNITED STATES: 1954 AND EARLIER YEARS--Continued

(For explanation of column captions see Introduction)

Industry and census year	Establish- ments, number	All employees		Production workers		Value added by manufacture <sup>2</sup> (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments <sup>3</sup> (\$1,000)
		Number <sup>1</sup>	Payroll (\$1,000)	Number <sup>1</sup>	Wages (\$1,000)			
Wood products, n.e.c. (S.I.C. 2499):								
1954.....	2,103	38,600	107,357	34,318	85,438	172,961	156,790	329,758
1953 <sup>4</sup> .....	(NA)	37,264	106,802	33,520	86,808	170,322	150,534	320,856
1952 <sup>5</sup> .....	(NA)	42,830	124,646	38,829	103,776	199,897	192,195	392,092
1951 <sup>6</sup> .....	(NA)	43,492	120,350	39,605	99,351	197,541	191,269	383,810
1950 <sup>5</sup> .....	(NA)	41,220	103,877	37,571	86,848	171,339	151,950	323,289
1949 <sup>5</sup> .....	(NA)	44,058	92,777	41,652	72,162	133,761	127,975	261,736
1947.....	1,813	43,523	92,831	39,771	78,454	144,135	132,940	277,075
1939 <sup>6</sup> .....	917	(NA)	(NA)	23,721	19,444	43,593	34,115	77,708

NA Not available.

<sup>1</sup>The number of "All employees" and the number of "production and related workers" were obtained as follows: For the period 1949-1954, figures are based on employment for the payroll periods ended nearest the 15th of March, May, August and November. For 1947, they represent the average of 12 monthly figures. For earlier years, the production worker average was calculated as in 1947, but the figure for all employees represents the sum of the annual average number of production workers and the number of nonproduction workers reported for one payroll period (usually in October).

<sup>2</sup>Value of products less cost of materials, supplies, fuel, electric energy and contract work. See Introduction, "Value Added by Manufacture."

<sup>3</sup>For 1929 and 1947-1954, the figures represent value of shipments except for "Wood Preserving" where they represent value of receipts; for all other years, the figures represent value of production. (See Introduction, "Value of shipments.")

<sup>4</sup>For "Wood preserving," the statistics for cost of materials and value of products for 1954 are not comparable with those for 1927-1953, but they are comparable with those for 1899-1925. The differences occur because statistics for 1927-1953 included an estimated value of forest products treated but not owned by the reporting establishments, whereas in 1954 and in the 1899-1925 period the statistics include only the value of wood owned by the reporting establishments.

<sup>5</sup>The figures for 1949-1953 represent estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period. Estimates with a standard error in excess of 15 percent generally have been omitted from this table.

<sup>6</sup>Figures for prior years are not sufficiently comparable to be shown in this table.



## MISCELLANEOUS WOOD PRODUCTS

24D-5

Table 2.—GENERAL STATISTICS BY REGIONS AND STATES: 1954 AND 1947  
(For explanation of column captions see Introduction)

Industry, region, and State <sup>1</sup>	1954										1947		
	Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value <sup>4</sup> added by manufacture (\$1,000)
	Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
Wood preserving (S.I.C. 2491), total.	288	158	12,073	36,162	10,409	20,671	28,020	69,257	121,245	190,503	4,700	16,247	92,041
Northeast.....	19	11	527	1,835	445	862	1,360	3,717	6,444	10,161	1,130	797	4,482
New York.....	5	4	125	433	108	201	291	1,040	1,992	3,032	(D)	155	(D)
New Jersey.....	5	3	132	493	106	217	362	895	1,567	2,463	15	207	(D)
East North Central.....	28	17	1,143	3,693	995	1,923	3,001	7,462	10,883	18,346	331	2,301	13,707
Ohio.....	8	6	459	1,588	399	783	1,299	3,002	4,262	7,264	208	688	3,252
Indiana.....	6	4	223	564	198	363	485	1,322	1,179	2,501	15	380	1,405
West North Central.....	19	15	881	3,000	753	1,465	2,399	5,565	9,196	14,761	119	1,111	6,449
Minnesota.....	9	8	464	1,842	399	820	1,472	3,328	6,060	9,389	87	588	3,633
Missouri.....	6	5	295	700	254	422	547	1,548	1,742	3,291	18	(D)	(D)
South Atlantic.....	72	34	2,965	8,212	2,523	4,909	6,038	16,007	27,706	43,713	1,462	3,487	17,539
Virginia.....	8	5	321	815	282	490	624	1,923	3,329	5,252	123	456	2,548
South Carolina.....	7	3	614	1,523	504	913	1,049	2,800	5,293	8,094	87	753	3,367
Georgia.....	20	9	806	2,304	700	1,426	1,745	4,852	9,497	14,349	398	841	3,790
Florida.....	17	9	628	1,877	534	1,152	1,407	3,141	5,223	8,364	642	631	4,257
East South Central.....	41	25	2,419	6,320	2,169	4,406	5,119	12,691	22,922	35,614	680	2,567	14,379
Alabama.....	15	7	1,125	2,862	1,032	2,131	2,394	5,478	7,819	13,298	326	783	2,874
Mississippi.....	15	11	784	2,013	699	1,424	1,619	4,102	8,125	12,228	179	1,080	6,854
West South Central.....	61	29	2,467	6,373	2,134	4,367	5,026	11,990	23,209	35,200	513	3,689	19,064
Arkansas.....	6	4	395	965	360	699	841	2,318	2,729	5,048	251	242	(D)
Louisiana.....	21	10	685	1,708	598	1,263	1,340	3,409	8,320	11,730	101	886	5,805
Oklahoma.....	9	3	272	684	219	444	501	1,109	2,987	4,096	31	327	(D)
Texas.....	25	12	1,114	3,014	957	1,960	2,343	5,153	9,172	14,325	128	2,234	10,565
Mountain.....	21	9	605	2,073	508	994	1,583	3,460	4,679	8,140	75	917	5,488
Montana.....	5	2	107	333	90	169	273	482	655	1,138	(D)	216	(D)
Colorado.....	5	4	238	736	192	388	539	1,462	2,178	3,641	25	205	(D)
Pacific.....	27	18	1,063	4,654	880	1,741	3,491	8,363	16,202	24,566	387	1,378	10,933
Washington.....	9	7	335	1,414	281	555	1,118	2,234	3,664	5,899	26	575	3,727
Oregon.....	8	5	364	1,513	296	551	1,004	2,397	4,824	7,222	155	362	2,468
California.....	10	6	362	1,727	302	634	1,368	3,731	7,713	11,445	205	441	4,738
Lasts and related products (S.I.C. 2492), total.....	51	23	1,463	5,640	1,220	2,425	4,190	8,210	3,742	11,953	223	1,959	8,937
Northeast.....	36	17	1,045	3,954	861	1,691	2,914	5,800	2,900	8,701	180	1,431	6,340
Massachusetts.....	20	11	639	2,399	515	1,011	1,760	3,321	1,565	4,886	114	763	(D)
New York.....	11	5	304	1,274	261	523	945	2,035	1,122	3,158	27	470	(D)
East North Central.....	5	2	133	533	112	236	375	714	243	958	(D)	287	1,508
West North Central.....	10	4	284	1,153	247	498	900	1,695	598	2,293	(D)	241	1,089
Missouri.....	10	4	284	1,153	247	498	900	1,695	598	2,293	(D)	241	1,089
Mirror and picture frames (S.I.C. 2493), total.....	343	50	5,214	17,351	4,420	8,845	12,520	27,601	20,020	47,622	35	3,811	15,506
New England.....	24	6	353	1,011	280	502	676	1,875	836	2,411	24	263	1,039
Middle Atlantic.....	152	14	1,272	4,067	1,093	2,201	2,979	7,140	5,420	12,551	4	1,014	4,370
New York.....	136	12	1,040	3,339	877	1,761	2,360	5,253	4,396	10,260	3	874	3,889
New Jersey.....	9	2	194	612	183	376	543	1,852	836	1,890	6	112	(D)
East North Central.....	63	20	2,583	9,601	2,200	4,483	6,964	14,695	10,436	25,132	17	2,115	8,757
Illinois.....	36	15	2,146	8,015	1,832	3,776	5,933	11,844	8,506	20,149	137	1,866	7,920
West North Central.....	12	1	93	247	85	183	202	456	849	849	..	82	250
South Atlantic.....	29	4	403	1,062	340	660	693	1	1,275	2,781	44	(D)	(D)
Georgia.....	10	4	300	809	250	478	461	1,111	821	1,933	35	(D)	(D)
East South Central.....	7	1	160	362	123	211	206	588	296	808	..	(D)	(D)
West South Central.....	5	...	10	19	9	18	15	...	34	...	(D)	25	(D)
Mountain.....	4	..	17	44	15	33	40	...	37	104	(D)	...	...
Pacific.....	47	4	320	936	272	550	741	1,657	1,228	2,886	15	181	735
California.....	41	3	274	782	235	470	621	1,465	1,056	2,522	13	133	(D)

See footnotes at end of table.

## MANUFACTURES—INDUSTRY STATISTICS

Table 2.—GENERAL STATISTICS BY REGIONS AND STATES: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Industry, region, and State <sup>1</sup>	1954										1947		
	Establishments, number		All employees		Production workers			Value added by manufacture	Cost of materials, etc.	Value of shipments	Capital expenditures, new	All employees, number	Value added by manufacture
	Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)		(\$1,000)
Wood products, n.e.c. (S.I.C. 2499), total.	2,103	498	38,600	107,357	34,318	67,852	85,438	172,961	156,790	329,758	6,605	43,523	144,135
New England.....	345	96	8,732	22,629	7,836	15,844	18,815	35,780	28,367	64,148	1,378	9,880	29,462
New Hampshire.....	51	11	833	2,429	759	1,640	2,017	3,988	3,995	7,984	166	1,448	(D)
Vermont.....	57	16	1,006	2,606	913	1,905	2,220	3,869	3,353	7,223	132	1,587	(D)
Massachusetts.....	94	12	1,355	4,146	1,119	2,141	3,024	7,762	6,627	14,390	253	1,422	5,679
Connecticut.....	30	5	403	1,065	282	565	853	1,840	2,014	3,854	64	346	(D)
Middle Atlantic.....	439	92	6,734	19,413	5,967	11,975	15,368	31,576	26,108	57,684	(D)	7,430	27,851
New York.....	268	47	3,728	10,688	3,278	6,634	8,296	18,021	14,368	32,389	(D)	4,493	17,428
New Jersey.....	64	13	826	2,879	704	1,423	2,078	4,711	4,037	8,749	235	509	3,036
Pennsylvania.....	107	32	2,180	5,846	1,984	3,917	4,994	8,843	7,702	16,546	273	2,428	7,387
East North Central.....	446	101	7,256	22,713	6,218	12,261	16,939	35,938	31,399	67,344	1,414	9,865	38,347
Ohio.....	84	23	1,232	4,001	1,062	2,209	2,979	5,933	5,865	11,799	330	1,298	5,010
Indiana.....	58	19	1,177	3,373	1,028	2,054	2,594	5,216	4,978	10,195	(D)	1,220	(D)
Illinois.....	107	17	1,073	3,808	895	1,799	2,546	6,066	6,328	12,394	204	1,390	6,742
Michigan.....	121	31	2,644	8,422	2,266	4,293	6,457	13,230	9,394	22,631	(D)	4,465	(D)
Wisconsin.....	76	11	1,129	3,108	965	1,905	2,361	5,491	4,832	10,324	197	1,492	5,956
West North Central.....	107	21	1,668	4,525	1,456	2,933	3,530	7,532	8,134	15,667	221	1,849	5,639
Missouri.....	60	13	779	1,806	677	1,294	1,356	2,917	2,596	5,514	120	584	1,645
South Atlantic.....	179	48	3,438	8,379	3,133	5,657	6,832	12,195	14,005	26,201	475	(D)	(D)
Maryland.....	18	3	327	1,072	295	567	796	1,752	2,251	4,004	49	237	939
Virginia.....	27	10	501	1,141	449	839	910	1,583	1,573	3,157	91	399	(D)
North Carolina.....	47	14	1,105	2,864	990	1,739	2,364	3,936	2,975	6,911	152	797	1,741
Georgia.....	29	7	622	1,376	577	971	1,164	2,059	3,706	5,766	93	462	(D)
Florida.....	37	6	382	834	353	659	671	1,414	1,643	3,058	(D)	161	368
East South Central.....	145	59	4,290	10,238	3,871	7,764	8,032	15,408	16,071	31,480	679	4,798	(D)
Kentucky.....	27	7	606	1,735	527	1,081	1,307	2,507	2,397	4,904	(D)	778	2,366
Tennessee.....	67	33	2,279	5,353	2,053	4,105	4,144	7,897	6,823	14,721	405	2,657	(D)
West South Central.....	132	29	2,141	4,600	1,991	4,005	3,876	7,602	7,265	14,868	(D)	(D)	(D)
Arkansas.....	41	15	1,096	2,237	1,029	2,097	1,989	3,596	3,118	6,714	72	2,779	(D)
Louisiana.....	21	6	330	701	309	632	593	1,131	1,133	2,265	50	137	408
Mountain.....	19	1	105	310	91	202	247	560	617	1,178	(D)	123	329
Pacific.....	291	51	4,232	14,547	3,753	7,206	11,795	26,367	24,819	51,186	1,049	2,949	13,011
California.....	204	35	3,002	10,276	2,655	5,195	8,279	17,921	16,048	33,970	773	1,655	(D)

Note: Detailed figures may not add to the totals because of independent rounding.

<sup>1</sup> D Withheld to avoid disclosing figures for individual companies.<sup>2</sup> General statistics for some producing States are not shown separately in the table (see Introduction "Confidentiality of Data for Individual Companies"). Such States are shown below with the number of establishments in each State for 1954 and, in parentheses, the number of employees or the employment-size range for that State for 1954:

S.I.C. 2491, Wood Preserving: Northeast—New Hampshire, 1 (100-249); Massachusetts, 1 (1-19); Connecticut, 1 (1-19); Pennsylvania, 5 (100-249); East North Central—Illinois, 11 (250-499); Michigan, 1 (1-19); Wisconsin, 2 (20-99); West North Central—Iowa, 1 (20-99); South Dakota, 3 (20-99); South Atlantic—Delaware, 1 (20-99); Maryland, 3 (100-249); West Virginia, 3 (20-99); North Carolina, 13 (250-499); East South Central—Kentucky, 6 (250-499); Tennessee, 5 (100-249); Mountain—Idaho, 9 (100-249); Wyoming, 2 (100-249).

S.I.C. 2492, Laths and Related Products: Northeast—New Hampshire, 3 (20-99); Pennsylvania, 2 (1-19); East North Central—Ohio, 3 (100-249); Indiana, 1 (1-19); Illinois, 1 (1-19).

S.I.C. 2493, Mirror and Picture Frames: New England—Maine, 2 (1-19); New Hampshire, 1 (1-19); Massachusetts, 16 (250-499); Rhode Island, 2 (1-19); Connecticut, 3 (1-19); Middle Atlantic—Pennsylvania, 7 (20-99); East North Central—Ohio, 6 (20-99); Indiana, 4 (100-249); Michigan, 10 (100-249); Wisconsin, 5 (1-19); West North Central—Minnesota, 2 (1-19); Iowa, 1 (1-19); Missouri, 8 (20-99); Nebraska, 1 (1-19); South Atlantic—Maryland, 3 (20-99); District of Columbia, 2 (1-19); Virginia, 5 (20-99); West Virginia, 1 (1-19); North Carolina, 2 (1-19); South Carolina, 1 (1-19); Florida, 5 (1-19); East South Central—Kentucky, 3 (20-99); Tennessee, 2 (1-19); Alabama, 1 (1-19); Mississippi, 1 (100-249); West South Central—Oklahoma, 1 (1-19); Texas, 4 (1-19); Mountain—Colorado, 2 (1-19); New Mexico, 1 (1-19); Utah, 1 (1-19); Pacific—Washington, 3 (1-19); Oregon, 3 (20-99).

S.I.C. 2499, Wood Products, N.E.C.: New England—Maine, 105 (5,000-9,999); Rhode Island, 8 (20-99); West North Central—Minnesota, 29 (250-499); Iowa, 9 (100-249); South Dakota, 3 (1-19); Nebraska, 3 (250-499); Kansas, 3 (1-19); South Atlantic—Delaware, 1 (20-99); West Virginia, 14 (250-499); North Carolina, 6 (20-99); East South Central—Alabama, 28 (250-499); Mississippi, 23 (500-999); West South Central—Oklahoma, 11 (20-99); Texas, 59 (500-999); Mountain—Montana, 4 (20-99); Idaho, 3 (1-19); Colorado, 7 (20-99); Arizona, 3 (1-19); Utah, 2 (1-19); Pacific—Washington, 38 (250-499); Oregon, 49 (500-999).

## MISCELLANEOUS WOOD PRODUCTS

24D-7

Table 3.—DETAILED STATISTICS FOR THE UNITED STATES: 1954

(For explanation of line captions see Introduction)

Item	Wood preserving (S.I.C. 2491) all estab- lishments	Lasts and related products (S.I.C. 2492) all estab- lishments	Mirror and picture frames (S.I.C. 2493)		Wood products, n.e.c. (S.I.C. 2499) all estab- lishments
			All estab- lishments	Establish- ments with 90% or more primary prod- uct special- ization	
Primary product specialization ratio <sup>1</sup> .....	97	99	89	xxx	91
Coverage ratio <sup>2</sup> .....	99	95	93	xxx	87
Number of establishments, total.....	288	51	343	317	2,103
With 1-19 employees.....	130	28	293	277	1,605
With 20-99 employees.....	125	21	40	32	432
With 100 employees and over.....	33	2	10	8	66
All employees:					
Number (average for year).....	12,073	1,463	5,214	3,813	38,600
Payroll.....\$1,000..	36,162	5,640	17,351	12,233	107,357
Production workers:					
Number (average for year).....	10,409	1,220	4,420	3,249	34,318
Man-hours.....1,000..	20,671	2,425	8,845	6,397	67,852
Wages.....\$1,000..	28,020	4,190	12,520	8,932	85,438
Value added by manufacture.....do...	69,297	8,210	27,601	20,431	172,961
Cost of materials, etc.....do...	121,245	3,742	20,020	15,278	156,790
Value of shipments.....do...	190,503	11,953	47,622	35,710	329,758
Value added by resales.....do...	293	50	471	152	2,335
Cost of products bought and resold.....do...	2,434	370	587	440	10,686
Sales of products bought and resold.....do...	2,707	420	1,059	593	13,021
Total inventories, beginning of year.....do...	55,706	1,669	7,690	5,222	56,968
Total inventories, end of year.....do...	51,914	1,535	7,353	5,021	54,644
Capital expenditures, new.....do...	4,700	(3)	(3)	(3)	6,605
Number of employees for selected months:					
March.....	12,312	1,384	5,285	3,896	38,901
May.....	12,150	1,488	4,998	3,661	38,614
August.....	12,200	1,497	5,091	3,708	38,040
November.....	11,632	1,484	5,481	3,966	38,847
Cost of materials, fuel, electricity and contract work, total.....\$1,000..	121,245	3,742	20,020	15,278	156,790
Materials, parts, containers, and supplies consumed.....do...	116,372	3,588	19,252	14,671	151,197
Fuels consumed, total.....do...	2,756	37	181	143	1,560
Bituminous coal and anthracite:					
Quantity.....1,000 short tons..	130	1	6	(NA)	56
Value.....\$1,000..	1,044	13	67	(NA)	543
Coke:					
Quantity.....1,000 short tons..	(4)	...	...	...	1
Value.....\$1,000..	14	...	...	...	21
Fuel oil:					
Quantity.....1,000 barrels..	258	4	21	(NA)	111
Value.....\$1,000..	795	18	90	(NA)	465
Gas:					
Quantity.....million cubic feet..	2,933	12	38	(NA)	605
Value.....\$1,000..	612	6	15	(NA)	192
Other fuels:					
Value.....do...	291	...	9	(NA)	339
Electric energy:					
Purchased:					
Quantity.....million kw-h.	46	3	10	7	167
Cost.....\$1,000..	828	95	207	144	2,888
Generated.....million kw-h.	1	...	...	...	13
Sold:					
Quantity.....do...	...	...	...	...	...
Value.....\$1,000..	...	...	...	...	...
Cost of contract work.....do...	1,289	22	380	320	1,145
Manufacturers' inventories:					
Beginning of year, total.....do...	55,706	1,669	7,690	5,222	56,968
Finished products.....do...	26,909	(3)	2,522	1,747	16,124
Work-in-process.....do...	11,451	(3)	1,466	905	11,609
Materials, supplies, fuel, etc.....do...	17,346	1,370	3,702	2,570	29,235
End of year, total.....do...	51,914	1,535	7,353	5,021	54,644
Finished products.....do...	27,834	(3)	2,381	1,625	16,243
Work-in-process.....do...	9,507	(3)	1,445	915	11,495
Materials, supplies, fuel, etc.....do...	14,573	1,203	3,527	2,481	26,906
Expenditures for plant and equipment, total.....do...	4,905	(3)	(3)	(3)	7,503
Capital expenditures, new.....do...	4,700	(3)	(3)	(3)	6,605
New structures and additions to plant.....do...	1,470	(3)	(3)	(3)	1,598
New machinery and equipment.....do...	3,230	(3)	(3)	(3)	5,007
Expenditures for used plant and equipment.....do...	(3)	(3)	(3)	(3)	898
Horsepower rating of power equipment at end of 1954:					
Horsepower of prime movers and electric motors driven by purchased energy, total.....1,000 hp..	145	5	8	5	232
Engines, etc., driving electric generators.....do...	20	(5)	(5)	(5)	19
Engines, etc., not driving electric generators.....do...	53	...	(5)	(5)	20
Electric motors driven by purchased energy.....do...	72	5	8	5	193
Electric motors driven by energy generated at the establishment.....do...	2	...	...	...	11

Note: Detailed figures may not add to the totals because of independent rounding.

xxx Not applicable. <sup>1</sup>The specialization ratio compares the given industry's shipments of its primary products to its total shipments of all products. (The primary products are listed in Tables 5B and 6; the first 4-digits of the product code represent the industry code to which the product is primary.) Columns containing totals for establishments with 90% or more primary product specialization are shown only for those industries having a primary product specialization of less than 90%. <sup>2</sup>The coverage ratio measures the extent to which the total shipments of products primary to the given industry are shipped by establishments classified in that industry. <sup>3</sup>Less than \$500 thousand. <sup>4</sup>Less than 500 tons.

<sup>5</sup>Less than 500 hp.



## MANUFACTURES--INDUSTRY STATISTICS

Table 4.--SELECTED STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR THE UNITED STATES: 1954

(Value figures in thousands of dollars. For explanation of line captions see Introduction. Data which cannot be shown without disclosing information for individual companies have been combined with figures for other size classes. A (D) appears in the column where the figure has been omitted and the combined figure is underlined and shown in the size-class to the left)

Ind. code	Industry and item	Total, all estab- lish- ments	Establishments with an average of--									
			1-4 em- ployees	5-9 em- ployees	10-19 em- ployees	20-49 em- ployees	50-99 em- ployees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
2491	Wood preserving:											
	Number of establishments..	288	62	32	36	66	59	31	1	1	...	...
	Number of employees.....	12,073	156	229	546	2,095	4,120	<u>4,924</u>	(D)	(D)	...	...
	Value added by manufacture	69,257	687	1,070	2,690	12,321	26,692	<u>25,794</u>	(D)	(D)	...	...
2492	Lasts and related products:											
	Number of establishments..	51	10	11	7	10	11	2	...	...	...	...
	Number of employees.....	1,463	30	75	103	<u>1,253</u>	(D)	(D)	...	...	...	...
	Value added by manufacture	8,210	166	496	697	<u>6,850</u>	(D)	(D)	...	...	...	...
2493	Mirror and picture frames:											
	Number of establishments..	343	200	48	45	28	12	8	1	1	...	...
	Number of employees.....	5,214	479	333	619	904	824	<u>2,053</u>	(D)	(D)	...	...
	Value added by manufacture	27,601	2,687	1,849	3,107	4,588	4,213	<u>11,155</u>	(D)	(D)	...	...
2499	Wood products, n.e.c.:											
	Number of establishments..	2,103	934	356	315	312	120	58	8	...	...	...
	Number of employees.....	38,600	2,167	2,555	4,462	9,739	8,279	8,659	2,736	...	...	...
	Value added by manufacture	172,961	9,390	11,797	20,342	41,942	37,006	39,776	12,706	...	...	...

Note: Detailed figures may not add to the totals because of independent rounding.

MISCELLANEOUS WOOD PRODUCTS

24D-9

Table 5A.—INDUSTRY-PRODUCT ANALYSIS—SUMMARY OF INDUSTRY AND PRIMARY PRODUCT SHIPMENTS, SPECIALIZATION RATIOS AND COVERAGE RATIOS FOR THE UNITED STATES: 1954 AND 1947

Industry code	Industry and census year	Value of shipments					Value of primary products shipped			
		Total	Primary products	Secondary products	Miscellaneous receipts	Primary product specialization ratio <sup>1</sup>	Total (made in all industries)	Made in this industry	Made in other industries	Coverage ratio <sup>2</sup>
		(\$1,000) (A)	(\$1,000) (B)	(\$1,000) (C)	(\$1,000) (D)	Col. B Col. B+C (Percent) (E)	(\$1,000) (F)	(\$1,000) (G)	(\$1,000) (H)	Col. G Col. F (Percent) (I)
2491	Wood preserving.....1954.. 1947..	190,503 ( <sup>3</sup> )	181,478 (D)	5,569 2,615	3,456 (D)	97 (D)	183,266 174,592	181,478 (D)	1,788 (D)	99 (D)
2492	Lasts and related products...1954.. 1947..	11,953 13,129	11,754 (D)	134 (D)	65 63	99 (D)	12,385 12,673	11,754 (D)	631 (D)	95 (D)
2493	Mirror and picture frames....1954.. 1947..	47,662 25,555	41,933 22,608	5,051 2,670	678 277	89 89	45,012 24,656	41,933 22,608	3,079 2,048	93 92
2499	Wood products, n. e. c.....1954.. 1947..	329,758 277,075	297,536 236,839	28,780 36,694	3,442 3,542	91 87	340,105 252,399	297,536 236,839	42,569 15,560	87 94

(D) Withheld to avoid disclosing information for individual companies.

<sup>1</sup>The specialization ratio compares the given industry's shipments of its primary products to its total shipments of all products. (The primary products are listed in Tables 5B and 6A; the first 4-digits of the product code represent the industry code to which the product is primary.)

<sup>2</sup>The coverage ratio measures the extent to which the total shipments of products primary to the given industry are shipped by establishments classified in that industry.

<sup>3</sup>See Table 1, footnote 4.

## MANUFACTURES--INDUSTRY STATISTICS

Table 5B.—INDUSTRY-PRODUCT ANALYSIS—SHIPMENTS BY PRODUCT CLASS AND INDUSTRY, FOR THE UNITED STATES: 1954

(In thousands of dollars. The first column shows the total value of shipments of the specified industry divided among: (a) products classified in the industry (primary products), (b) products classified in other industries (secondary products) and (c) miscellaneous receipts. The value of shipments of the primary products of the specified industry reported by establishments not classified in that industry is shown under the caption "Other Industries." Industries accounting for significant amounts of the primary products listed are shown in separate columns provided that the figures for individual companies are not thereby disclosed. The last column shows the total value of shipments of the primary products of the industry by all manufacturing industries)

Prod. class code	Wood preserving industry	Wood preserving (S.I.C. 2491)	Other industries	All industries	Prod. class code	Mirror and picture frame industry	Mirror and picture frames (S.I.C. 2493)	Other industries	All industries
	Total industry shipments.....	190,503	xxx	xxx		Total industry shipments.....	47,662	xxx	xxx
	Primary products.....	181,478	1,788	183,266	24930	Frames for mirrors and pictures.....	41,933	3,079	45,012
						Secondary products.....	5,051	xxx	xxx
24910	Treated wood products, wood preserving.....	154,742	1,788	156,530	32312	Mirrors.....	2,030	xxx	xxx
24911	Treating wood owned by others.....	26,736	...	26,736		Other secondary products.....	3,021	xxx	xxx
						Miscellaneous receipts.....	678	xxx	xxx
	Secondary products.....	5,569	xxx	xxx					
	Miscellaneous receipts.....	3,456	xxx	xxx	Prod. class code	Wood products, n.e.c. industry	Wood products, n.e.c. (S.I.C. 2499)	Other industries	All industries
	Contract work.....	3,344	xxx	xxx		Total industry shipments.....	329,758	xxx	xxx
	Other.....	112	xxx	xxx		Primary products.....	297,536	42,569	340,105
Prod. class code	Lasts and related products industry	Lasts and related products (S.I.C. 2492)	Other industries	All industries	24991	Wood handles.....	31,452	2,290	33,742
					24992	Wood furniture parts and vehicle stock.....	30,161	5,886	36,047
					24993	Wood ladders and scaffolding equipment.....	20,337	1,773	22,110
					24994	Other wood products.....	200,197	131,662	231,859
	Total industry shipments.....	11,953	xxx	xxx	24990	Wood products, not specified by kind.....	15,329	958	16,347
	Lasts and related products.....	11,754	631	12,385		Secondary products.....	28,780	xxx	xxx
24920					2421-	Sawmills and planing mills.....	5,205	xxx	xxx
	Secondary products.....	134	xxx	xxx	2431-	Millwork plants.....	2,186	xxx	xxx
					2444-	Wooden boxes.....	3,237	xxx	xxx
	Miscellaneous receipts.....	65	xxx	xxx	2511-	Wood furniture, not upholstered....	2,257	xxx	xxx
						Other secondary products.....	15,895	xxx	xxx
						Miscellaneous receipts.....	3,442	xxx	xxx
						Contract and commission work.....	2,082	xxx	xxx
						Other.....	1,360	xxx	xxx

xxx Not applicable.

<sup>1</sup>Includes \$7,662 thousand shipped by Industry 2421, Sawmills and Planing Mills.



## MISCELLANEOUS WOOD PRODUCTS

24D-11

Table 6.--QUANTITY AND VALUE OF PRODUCTS SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, FOR THE UNITED STATES: 1954 AND 1947

Product code	Product	Unit of quantity	Total shipments including interplant transfers			
			1954		1947	
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
2491--	Wood preserving, total.....	.....	xxx	183,266	xxx	174,592
2491011	Wood owned and treated by the same establishment.....	.....	xxx	156,530	xxx	141,881
9324911	Receipts for treating wood owned by others.....	.....	xxx	26,736	xxx	32,711
2492--	Lasts and related products, total.....	.....	xxx	12,385	xxx	12,673
	Lasts for boots and shoes:					
2492011	Wood.....	Thousand pairs....	2,082	8,058	3,384	9,201
2492015	Aluminum.....	.....do.....	21	194	118	641
2492061	Remodeled lasts, last sole patterns, forms, shoe trees, and stretchers for boots and shoes.....	.....	xxx	4,133	xxx	2,831
2493--	Mirror and picture frames, total.....	.....	xxx	45,012	xxx	24,656
	Frames for mirrors and pictures:					
2493011	Wood.....	.....	xxx	9,871	xxx	7,610
2493015	Metal.....	.....	xxx	8,092	xxx	6,825
	Finished moldings for mirrors and pictures:					
2493021	Quantity reported.....	Thousand lin. ft..	61,742	4,209	(NA)	(1)
	Quantity not reported.....	.....	xxx	1,501		
2493051	Framed pictures.....	.....	xxx	14,452	xxx	7,031
2493098	Other mirror and picture products, including mirror and picture frames, not specified by material <sup>2</sup> .....	.....	xxx	6,887	xxx	13,190
2493000	Wood products, n.e.c., total.....	.....	xxx	340,105	xxx	252,399
24991	Handles, wooden.....	.....	xxx	33,742	xxx	38,524
	Hand tool handles:					
	Striking tool handles (axe, pick, hammer, etc.):					
2499111	Quantity reported.....	Thousand bd. ft. lbr. cons.....	29,229	6,571	(NA)	11,414
	Quantity not reported.....	.....	xxx	2,557		
	Lifting and pulling tool handles (fork, hoe, rake, spade, shovel, etc.):					
2499115	Quantity reported.....	Thousand bd. ft. lbr. cons.....	9,542	1,763	(NA)	5,821
	Quantity not reported.....	.....	xxx	1,494		
	Other hand tool handles (peavey, scythe, shunt pole, canthook, mechanics, farm garden, household, etc.):					
2499119	Quantity reported.....	Thousand bd. ft. lbr. cons.....	16,100	4,045	(NA)	4,801
	Quantity not reported.....	.....	xxx	1,597		
	Other handles:					
2499151	Quantity reported.....	Thousand bd. ft. lbr. cons.....	52,471	9,157	(NA)	14,394
	Quantity not reported.....	.....	xxx	3,740		
2499100	Handles, not specified by kind <sup>2</sup> .....	.....	xxx	2,818	xxx	2,094
24992	Furniture parts, and vehicle stock.....	.....	xxx	36,047	xxx	42,390
	Furniture parts, except frames (including hardwood furniture dimension, completely fabricated, ready for assembly):					
2499211	Quantity reported.....	Thousand bd. ft. lbr. cons.....	88,365	21,146	(NA)	21,157
	Quantity not reported.....	.....	xxx	8,788		
2499251	Vehicle stock (body parts, rims, spokes, hubs, etc.).....	Thousand bd. ft. lbr. cons.....	21,539	4,362	(NA)	21,233
2499200	Furniture parts, and vehicle stock, not specified by kind <sup>2</sup> ....	.....	xxx	1,751	xxx	xxx
24993	Wooden ladders, and other wooden scaffolding equipment.....	.....	xxx	22,110	xxx	17,616
2499311	Stepladders.....	Thousand lin. ft..	12,314	9,118	13,048	7,521
2499331	Rung ladders.....	.....do.....	14,823	10,401	17,235	8,922
2499398	Other scaffolding equipment (horses, scaffold jacks, extension planks, window jacks, etc.).....	.....	xxx	1,379	xxx	1,173
2499300	Wooden ladders, and other wooden scaffolding equipment, not specified by kind <sup>2</sup> .....	.....	xxx	1,212		

See footnotes at end of table.

## MANUFACTURES—INDUSTRY STATISTICS

Table 6.--QUANTITY AND VALUE OF PRODUCTS SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, FOR THE UNITED STATES: 1954 AND 1947--Continued

Product code	Product	Unit of quantity	Total shipments including interplant transfers			
			1954		1947	
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
2499----	Wood products, n.e.c.—Continued					
24994	Other wood products, not elsewhere classified <sup>3</sup> .....		xxx	231,859	xxx	134,931
2499411	Wood novelties and specialties (bookends, ash trays, etc.)....		xxx	9,974	xxx	11,821
	Woodenware:					
2499421	Turned, shaped, or molded (dishes, serving forks, spoons, salad and mixing bowls, etc.).....		xxx	6,900	xxx	9,469
2499425	Flat veneer products (forks, spoons, plates, tongue depressors, applicators, etc.).....		xxx	9,954	xxx	5,787
2499431	Wooden reels for wire and cable.....		xxx	4,524	xxx	( <sup>4</sup> )
2499441	Battery separators, wooden.....	Thousands.....	903,423	7,510	xxx	6.406
	Toilet seats:					
	Wood:					
2499451	Quantity reported.....	do.....	1,572	5,176	xxx	( <sup>4</sup> )
	Quantity not reported.....		xxx	696		
2499455	Other materials.....	Thousands.....	4,431	19,167		
	Pallets, wooden:					
2499461	Quantity reported.....	do.....	9,093	20,144	xxx	(NA)
	Quantity not reported.....		xxx	3,747		
2499463	Pallets, wood and metal combination.....	Thousands.....	549	1,422		
	Skids, wooden:					
2499465	Quantity reported.....	do.....	2,319	4,113	(NA)	( <sup>3</sup> )
	Quantity not reported.....		xxx	737		
2499467	Skids, wood and metal combination.....	Thousands.....	261	2,289		
2499471	Snow fence.....	Thousand lin. ft..	(NA)	806		
	Completely fabricated industrial dimension (other than hardwood):					
2499481	Quantity reported.....	Thousand bd. ft.	23,476	3,562	xxx	4101,448
	Quantity not reported.....	lbr. cons.....		1,101		
2499498	Miscellaneous wooden goods and turnings, not reported elsewhere <sup>5</sup> .....		xxx	107,089	xxx	
2499400	Other wood products, n.e.c., not specified by kind <sup>2</sup> .....		xxx	22,948		
2499000	Wood products, not specified by kind <sup>2</sup> .....		xxx	16,347	xxx	18,938

xxx Not applicable.

NA Not available.

<sup>1</sup>Finished molding for mirrors and pictures is included with other mirror and picture products.<sup>2</sup>Largely accounted for by small establishments that were not asked to report a breakdown of total shipments.<sup>3</sup>For this product class the 1954-1947 totals are not strictly comparable, since product reclassification has resulted in the transfer to Industry 2499 of several items—notably pallets and skids (product codes 2499461 through 2499467)—for which shipments were not reported separately in 1947, thus preventing any retabulation of the 1947 data to reflect such changes.<sup>4</sup>In 1947 wooden reels for wire and cable and toilet seats (regardless of materials used) were included with miscellaneous wooden goods and turnings, not reported elsewhere.<sup>5</sup>Includes a large variety of miscellaneous wood turnings and other wood products. The major items included are dowels and dowel pins, pencil slats, toothpicks, clothespins, pegs, spools, and wood flour.

## MISCELLANEOUS WOOD PRODUCTS

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Table 7.—MATERIALS CONSUMED, BY KIND: 1954

Code	Description of materials	Unit of measure	Quantity	Delivered cost (\$1,000)
INDUSTRY 2491—WOOD-PRESERVING				
	Materials, containers, and supplies, total.....		xxx	116,372
081111	Stumpage cut current value.....		xxx	2,476
241121	Poles, piling, and other round or hewn wood products.....		xxx	39,925
	Rough lumber (including sawn ties):			
242111	Hardwood.....	Thousand board feet....	221,067	13,547
242115	Softwood.....	...do.....	227,027	16,681
282111	Creosote oil.....	Thousand gallons.....	124,907	27,632
970000	All other materials and components, parts, containers and supplies.....		xxx	16,111
INDUSTRY 2499—WOOD PRODUCTS, N.E.C.				
	Materials, containers, and supplies, total.....		xxx	151,197
241111	Logs and bolts.....	Thousand feet log scale	187,217	12,028
	Rough lumber:			
242111	Hardwood.....	Thousand board feet....	259,114	21,966
242115	Softwood.....	...do.....	246,161	21,001
	Dressed lumber:			
242121	Hardwood.....	...do.....	84,634	8,094
242125	Softwood.....	...do.....	92,878	8,951
242131	Rough, surfaced, or semifabricated hardwood dimension.....	...do.....	45,511	6,343
970000	All other materials and components, parts, containers and supplies.....		xxx	72,814

xxx Not applicable.



## MANUFACTURES—INDUSTRY STATISTICS

Table 8.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY INDUSTRY SPECIALIZATION AND PRIMARY PRODUCT CLASS SPECIALIZATION, FOR THE UNITED STATES: 1954

(This table presents selected statistics for establishments classified according to their degree of specialization in products primary to the industry. The establishments are classified in two ways: (1) by industry specialization—the degree of specialization in all primary products of the industry; and (2) by product-class specialization—the degree of specialization in the largest product class of the establishment. The degree of "industry specialization" for an establishment represents the ratio of its primary product shipments to its total product shipments, primary and secondary. The degree of "product-class specialization" for an establishment represents the ratio of its largest product class shipments to its total product shipments, primary and secondary. Data are not shown for some industries, product classes, and specialization ranges for a variety of reasons, consequently, detailed figures frequently do not add to the totals. See Introduction for detailed explanation)

Ind. or product class No.	Industry or product class by percent of specialization	Establishments, number	All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
2493	MIRROR AND PICTURE FRAMES (entire industry).....	343	5,214	17,351	4,420	8,845	12,520	27,601	20,020	47,622
	Establishments with:									
	90% or more specialization.....	317	3,813	12,233	3,249	6,397	8,932	20,431	15,278	35,710
	75-89% specialization.....	9	347	1,144	308	652	834	1,706	1,685	3,391
2499	WOOD PRODUCTS (entire industry).....	2,103	38,600	107,357	34,318	67,852	85,438	172,961	156,790	329,758
	Establishments with:									
	90% or more specialization.....	1,769	28,322	76,309	25,279	49,968	61,179	125,526	113,411	238,944
	75-89% specialization.....	93	3,426	10,002	3,015	6,032	8,005	14,911	16,191	31,102
	50-74% specialization.....	154	5,286	16,266	4,664	9,095	12,640	25,507	21,747	47,254
	All other <sup>1</sup> .....	87	1,565	4,779	1,359	2,756	3,613	7,017	5,440	12,458
24991	Wood handles:									
	All establishments specializing in product class..	212	5,224	13,299	4,689	9,520	10,953	20,053	16,432	36,485
	Establishments with:									
	90% or more specialization.....	166	3,096	7,598	2,789	5,659	6,190	11,169	9,993	21,163
	75-89% specialization.....	19	647	1,747	589	1,157	1,472	3,129	1,999	5,129
	50-74% specialization.....	22	1,109	3,000	1,005	2,027	2,528	4,364	3,323	7,688
	Less than 50% specialization.....	5	371	953	305	675	763	1,389	1,115	2,504
24992	Wood furniture parts and vehicle stock:									
	All establishments specializing in product class..	138	3,787	10,241	3,426	6,666	8,170	15,931	15,483	31,414
	Establishments with:									
	90% or more specialization.....	99	2,638	7,014	2,394	4,634	5,599	11,279	10,899	22,179
	75-89% specialization.....	13	322	962	289	530	731	1,437	1,422	2,860
	50-74% specialization.....	18	537	1,570	473	939	1,229	2,220	2,564	4,785
	Less than 50% specialization.....	8	289	695	269	561	610	993	596	1,590
24993	Wood ladders and scaffolding equipment:									
	All establishments specializing in product class..	72	1,861	5,917	1,521	3,049	4,267	9,715	10,664	20,380
	Establishments with:									
	90% or more specialization.....	51	1,311	4,046	1,058	2,125	2,926	6,888	7,667	14,555
	75-89% specialization.....	9	159	465	139	277	336	880	878	1,759
24994	Other wood products:									
	All establishments specializing in product class..	1,284	24,625	69,599	21,940	43,205	55,469	114,704	103,654	218,358
	Establishments with:									
	90% or more specialization.....	1,049	16,807	45,456	15,072	29,737	36,633	77,295	67,793	145,088
	75-89% specialization.....	74	2,279	6,761	2,002	4,073	5,357	10,305	12,408	22,713
	50-74% specialization.....	123	4,340	13,779	3,816	7,356	10,883	22,056	19,903	41,959
	Less than 50% specialization.....	38	1,198	3,602	1,049	2,039	2,595	5,047	3,550	8,598

<sup>1</sup>This class includes data for establishments with less than 50 percent specialization in the primary products of the industry and establishments engaged exclusively in contract work defined in the industry. Miscellaneous small statistical adjustments are also included.







## Major Group 25.—Furniture and Fixtures

This major group includes establishments engaged in manufacturing household, office, public-building, professional, and restaurant furniture, office and store fixtures, and window and door screens and shades, and venetian blinds, regardless of the materials used. Establishments primarily engaged in manufacturing special furniture for use in beauty and barber shop

are classified in Industry 3991, Beauty and Barber-shop Equipment. Establishments primarily engaged in the production of millwork are classified in Industry 2431, and woodworking to individual order or in the nature of reconditioning and repair in nonmanufacturing industries.

Table 1.—GENERAL STATISTICS FOR THE INDUSTRY GROUP: 1954 AND EARLIER YEARS  
(For explanation of column captions see Introduction)

Year <sup>1</sup>	Establishments, number	All employees <sup>2</sup>		Production workers			Value added by manufacture <sup>3</sup>	Capital expenditures, new	Horsepower of prime movers and electric motors <sup>4</sup>
		Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
1954 <sup>5</sup> .....	10,273	340,694	1,197,376	286,649	571,294	892,891	1,966,410	61,945	949
1953 <sup>6</sup> .....	(NA)	360,842	1,259,319	309,910	629,451	972,725	2,046,805	59,490	
1952 <sup>6</sup> .....	8,778	331,661	1,122,754	284,527	588,597	853,440	1,904,405	55,200	
1951 <sup>6</sup> .....	8,369	336,064	1,077,015	290,412	590,369	818,177	1,804,157	55,444	
1950 <sup>6</sup> .....	7,934	345,912	1,012,877	295,533	616,829	774,085	1,666,898	58,087	(NA)
1949 <sup>6</sup> .....	(NA)	309,817	862,247	269,455	549,406	653,087	1,411,788	41,015	
1947.....	7,551	316,273	806,948	277,909	583,572	641,673	1,346,277	77,441	
1939.....	5,178	(NA)	(NA)	189,382		186,820	417,785	(NA)	566
1937 <sup>7</sup> .....	4,469	(NA)	(NA)	198,464		201,570	424,355		
1935.....	4,319	171,116	171,374	151,057		133,020	273,802		
1933.....	3,491	137,308	110,605	123,242		90,528	192,834		
1931.....	4,584	(NA)	(NA)	146,910		146,958	321,582		
1929.....	5,491	248,321	358,680	219,328		275,997	614,533		
1927.....	4,666	237,042	338,356	210,018	(NA)	265,788	569,114		
1925 <sup>8</sup> .....	4,776	231,536	321,279	204,398		253,623	561,553	(NA)	(NA)
1923.....	4,532	216,824	292,740	191,904		232,061	510,299		
1921.....	4,326	161,880	213,551	142,020		164,771	346,971		
1919.....	4,821	183,274	214,008	159,479		161,674	365,903		
1914.....	4,844	168,730	109,717	149,441		84,200	174,295		
1909 <sup>9</sup> .....	4,337	(NA)	(NA)	142,340		72,736	150,848		
1904.....	3,497	136,840	68,779	126,537		57,558	115,845		
1899.....	2,614	(NA)	(NA)	98,414		40,298	82,259		

NA Not available.

<sup>1</sup>In addition to data for operating establishments, manufacturers' central administrative offices and auxiliary units reported 1,749 employees with a payroll of \$13,309 thousand in 1954. Similar data are shown for the years 1949-1953 in Annual Survey of Manufactures volumes. Data for these units are not available for the years prior to 1949.

<sup>2</sup>The figures for 1939 through 1954 include data for employees of manufacturing establishments who were engaged in distribution and construction work. The extent to which data for such employees are included in the figures for earlier years is not known.

<sup>3</sup>Value of products less cost of materials, supplies, fuel, electricity, and contract work. For 1899-1933, cost of contract work was not subtracted from value of products in calculating value added by manufacture.

<sup>4</sup>Driven by purchased energy.

<sup>5</sup>The figures for 1939-1954 include data for establishments primarily engaged in manufacture of metal partitions, classified for earlier years in the fabricated metal products industries. Value added by manufacture for 1939, excluding data for these establishments, was \$410.7 million.

<sup>6</sup>The figures for 1949-1953 represent estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period. Estimates with a standard error in excess of 15 percent generally have been omitted from this table.

<sup>7</sup>The figures for 1937 and later years include data for establishments primarily engaged in manufacture of venetian blinds, included for earlier years in the series for the lumber and products, except furniture industries. Value added by manufacture for 1937, excluding data for these establishments and therefore on a basis comparable with 1935, was \$417.7 million.

<sup>8</sup>The figures for 1899-1925 do not include data for establishments primarily engaged in manufacture of sewing machine cases, cabinets, and tables, classified for these years in the machinery (except electrical) industries.

<sup>9</sup>The figures for 1899-1909 do not include data for establishments primarily engaged in manufacture of window and door screens, included for these years in the series for the lumber and products, except furniture industries. Value added by manufacture for 1914, excluding data for these establishments and on a basis comparable with 1909, was \$169.4 million.

## MANUFACTURES—INDUSTRY STATISTICS

Table 2.—GENERAL STATISTICS FOR INDUSTRY GROUPS BY REGIONS AND STATES: 1954 AND 1947  
(For explanation of column captions see Introduction)

Industry group, region, and State <sup>1</sup>	1954							1947		
	Number of establish- ments	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
		Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
Furniture and fixtures (S.I.C. Group 25), total.	10,273	340,694	1,197,376	286,649	571,294	892,891	1,966,410	61,945	316,273	1,346,277
New England.....	743	19,978	69,232	16,839	33,757	51,478	108,252	2,940	17,992	74,095
Maine.....	35	724	1,862	648	1,351	1,513	2,985	(2)	655	2,207
New Hampshire.....	48	1,873	6,228	1,613	3,435	4,880	9,537	(2)	1,360	4,837
Vermont.....	29	1,358	4,430	1,183	2,593	3,347	6,012	(2)	1,765	5,134
Massachusetts.....	441	12,780	44,876	10,762	21,130	33,431	70,721	1,460	11,017	50,074
Rhode Island.....	36	610	2,233	476	903	1,523	3,715	(2)	792	2,918
Connecticut.....	154	2,632	9,602	2,156	4,342	6,781	15,279	615	2,403	8,918
Middle Atlantic.....	2,789	69,678	257,094	58,143	115,095	193,214	431,010	11,098	62,731	291,950
New York.....	1,791	38,158	146,707	31,581	62,547	108,981	250,320	6,011	37,389	186,159
New Jersey.....	372	8,558	32,764	6,845	13,440	23,939	56,322	1,291	7,516	35,740
Pennsylvania.....	626	22,961	77,622	19,717	39,107	60,293	124,368	3,794	17,826	70,051
East North Central....	1,926	102,142	404,039	84,169	167,733	299,298	655,879	23,785	108,935	488,717
Ohio.....	394	21,353	88,472	17,444	33,672	65,624	152,027	6,930	24,339	116,840
Indiana.....	293	22,117	77,158	18,652	36,458	58,540	118,467	3,970	21,438	84,598
Illinois.....	656	27,363	110,591	22,347	44,207	78,300	179,575	7,125	29,193	141,142
Michigan.....	406	20,737	86,653	17,162	35,787	64,883	142,067	4,478	21,506	91,299
Wisconsin.....	177	10,571	41,164	8,561	17,607	31,949	63,741	1,280	12,459	54,838
West North Central.....	497	13,844	51,255	11,397	22,209	36,222	82,423	2,112	14,400	56,373
Minnesota.....	124	2,672	10,727	2,183	4,099	7,306	16,992	584	2,791	11,797
Iowa.....	74	2,362	8,564	1,921	3,796	6,021	14,604	(2)	2,155	9,263
Missouri.....	208	6,940	25,366	5,747	11,217	18,128	38,666	801	7,461	27,882
Nebraska.....	42	1,025	3,793	841	1,697	2,522	6,467	(2)	962	3,886
Kansas.....	41	718	2,414	599	1,192	1,922	5,095	(2)	1,013	3,472
South Atlantic.....	1,330	68,105	191,424	59,160	119,374	144,811	320,699	10,173	55,726	206,559
Maryland.....	120	4,299	14,017	3,512	6,856	9,677	22,696	706	2,653	9,871
District of Columbia	14	259	1,134	180	353	631	1,538	(2)	(D)	(D)
Virginia.....	156	15,290	45,332	12,627	26,409	32,578	79,987	2,284	13,878	53,858
West Virginia.....	37	1,056	2,915	869	1,588	2,130	4,357	(2)	884	3,100
North Carolina.....	430	33,027	89,359	29,807	59,937	70,970	145,543	4,284	27,858	102,447
South Carolina.....	57	2,462	6,184	2,162	4,501	4,685	10,071	(2)	2,468	6,484
Georgia.....	185	6,954	18,371	6,114	12,202	14,374	33,079	971	5,687	22,757
Florida.....	324	4,696	13,959	3,834	7,397	9,648	23,197	1,414	2,046	7,079
East South Central....	452	20,214	57,795	17,450	35,908	42,841	87,631	3,417	18,217	59,313
Kentucky.....	108	4,997	16,390	4,169	8,363	11,599	23,235	1,036	7,158	25,292
Tennessee.....	191	10,061	27,206	8,763	18,279	20,224	43,409	1,287	7,942	26,102
Alabama.....	106	1,981	4,961	1,701	3,306	3,716	8,404	(2)	1,558	4,972
Mississippi.....	47	3,174	9,237	2,815	5,958	7,301	12,941	808	1,559	2,947
West South Central.....	733	17,670	50,883	15,053	30,218	37,655	86,273	3,660	11,560	43,367
Arkansas.....	80	4,856	12,435	4,272	8,330	9,590	19,014	1,048	3,178	11,439
Louisiana.....	86	1,373	3,673	1,186	2,308	2,727	6,141	(2)	1,344	4,613
Oklahoma.....	91	1,620	5,185	1,352	2,881	3,654	9,511	(2)	1,219	4,331
Texas.....	476	9,819	29,589	8,243	16,699	21,682	51,606	2,087	5,819	22,984
Mountain.....	232	1,819	6,716	1,531	3,062	4,826	11,130	(2)	1,593	5,761
Colorado.....	90	876	3,160	709	1,392	2,279	5,194	(2)	672	2,655
New Mexico.....	20	113	367	83	157	236	583	(2)	144	429
Arizona.....	50	337	1,127	262	470	769	1,991	(2)	264	1,077
Utah.....	39	363	1,645	366	812	1,218	2,515	(2)	376	1,392
Pacific.....	1,571	27,240	108,934	22,904	43,935	82,543	183,109	4,449	25,119	120,142
Washington.....	136	2,987	11,046	2,626	4,851	8,994	17,712	(2)	3,194	13,300
Oregon.....	81	1,841	7,067	1,633	3,191	5,587	11,745	(2)	3,471	15,298
California.....	1,354	22,411	90,821	18,644	35,893	67,961	153,651	3,737	18,454	91,544
Household furniture (S.I.C. Group 251), total.	6,470	243,932	818,893	208,262	413,823	618,344	1,320,743	40,284	228,429	932,405
New England.....	535	16,079	55,718	13,614	27,171	41,236	86,846	2,385	12,183	48,901
Maine.....	24	599	1,551	544	1,156	1,270	2,305	(2)	260	755
New Hampshire.....	40	1,528	4,866	1,312	2,752	3,722	7,502	(2)	1,150	4,115
Vermont.....	25	1,180	3,883	1,017	2,203	2,872	5,307	(2)	1,326	4,583
Massachusetts.....	324	10,575	37,639	8,911	17,417	27,872	59,583	1,192	7,809	32,774
Rhode Island.....	15	231	785	181	367	530	1,272	(2)	355	1,227
Connecticut.....	107	1,964	6,993	1,646	3,273	4,967	10,875	(2)	1,283	5,447
Middle Atlantic.....	1,714	44,622	159,449	37,606	73,427	119,508	261,116	6,710	40,721	183,036
New York.....	1,095	22,956	85,778	19,270	37,422	63,458	140,649	3,237	22,742	107,988
New Jersey.....	226	6,291	24,303	5,058	9,805	17,861	42,751	989	4,857	23,534
Pennsylvania.....	393	15,374	49,367	13,276	26,199	38,188	77,715	2,483	13,122	51,514
East North Central....	1,149	64,795	244,635	53,935	107,299	183,392	381,385	13,308	70,497	299,183
Ohio.....	201	8,760	33,107	7,164	13,826	24,624	56,816	(D)	10,429	48,884
Indiana.....	210	19,282	67,013	16,326	31,856	51,071	101,418	(D)	18,447	71,038
Illinois.....	377	19,488	77,594	16,049	31,787	56,042	123,221	4,659	20,358	94,761
Michigan.....	253	9,944	38,372	8,393	17,683	28,654	57,970	1,815	11,918	44,548
Wisconsin.....	108	7,319	28,548	6,002	12,146	22,999	41,958	804	9,345	39,952

See footnotes at end of table.

## FURNITURE AND FIXTURES

25-3

Table 2.—GENERAL STATISTICS FOR INDUSTRY GROUPS BY REGIONS AND STATES: 1954 AND 1947—Con.  
(For explanation of column captions see Introduction)

Industry group, region, and State <sup>1</sup>	1954						1947			
	Number of establish- ments	All employees		Production workers			Value added by manu- facture	Capital expendi- tures, new	All employees, number	Value added by manu- facture
		Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
Household furniture (S.I.C. Group 251)—Continued.										
West North Central.....	259	7,637	27,364	6,381	12,381	19,810	43,957	942	8,802	33,482
Minnesota.....	66	1,735	7,148	1,441	2,731	5,057	10,247	( <sup>2</sup> )	2,067	8,427
Iowa.....	46	1,541	5,538	1,254	2,429	3,908	8,086	( <sup>2</sup> )	1,321	6,107
Missouri.....	99	3,161	10,352	2,676	5,238	7,659	17,284	( <sup>2</sup> )	4,179	14,166
Nebraska.....	22	535	2,101	455	891	1,398	3,636	( <sup>2</sup> )	(D)	(D)
Kansas.....	20	546	1,868	458	901	1,499	4,174	( <sup>2</sup> )	747	2,554
South Atlantic.....	963	57,523	157,845	50,922	102,697	122,687	264,901	8,159	50,898	190,038
Maryland.....	67	2,020	6,720	1,636	3,193	4,283	11,500	( <sup>2</sup> )	1,911	6,834
Virginia.....	115	12,610	36,217	10,885	23,040	28,007	63,595	1,862	13,415	52,260
West Virginia.....	24	912	2,402	753	1,355	1,759	3,283	( <sup>2</sup> )	769	2,819
North Carolina.....	366	30,003	80,881	27,204	54,382	64,722	131,414	3,785	25,945	96,272
South Carolina.....	41	2,273	5,616	2,018	4,221	4,315	9,094	( <sup>2</sup> )	2,364	6,236
Florida.....	210	3,417	9,376	2,883	5,452	6,638	16,240	1,073	1,476	5,031
East South Central.....	314	18,431	52,487	15,994	32,973	39,004	78,456	3,153	16,817	54,943
Kentucky.....	72	4,637	15,323	3,887	7,780	10,813	21,279	970	6,736	23,701
Tennessee.....	142	9,214	24,616	8,059	16,894	18,351	38,476	1,176	7,415	24,789
Alabama.....	73	1,677	4,030	1,460	2,800	3,099	6,775	( <sup>2</sup> )	1,306	4,085
Mississippi.....	27	2,902	8,517	2,587	5,499	6,740	11,925	759	1,360	2,368
West South Central.....	401	12,842	35,233	11,094	21,883	26,691	59,176	2,375	8,415	30,854
Arkansas.....	54	4,474	11,274	3,984	7,737	8,815	17,304	741	3,012	10,706
Louisiana.....	56	1,139	3,041	993	1,954	2,293	5,044	183	1,156	3,907
Oklahoma.....	46	867	2,340	775	1,622	1,810	3,678	( <sup>2</sup> )	667	1,478
Texas.....	245	6,361	18,578	5,341	10,568	13,771	33,149	1,313	3,580	14,763
Mountain.....	133	1,143	4,138	1,023	2,057	3,074	7,204	( <sup>2</sup> )	944	3,515
Colorado.....	48	568	1,976	476	953	1,440	3,442	( <sup>2</sup> )	305	1,322
Arizona.....	29	183	568	157	261	443	1,181	( <sup>2</sup> )	178	849
Utah.....	23	237	1,127	269	610	868	1,853	( <sup>2</sup> )	275	891
Pacific.....	1,002	20,856	82,020	17,690	33,931	62,939	137,698	3,036	19,152	88,453
Washington.....	86	2,472	9,017	2,178	4,020	7,339	14,615	( <sup>2</sup> )	2,746	11,465
Oregon.....	41	1,472	5,579	1,329	2,611	4,425	9,172	( <sup>2</sup> )	2,985	12,773
California.....	875	16,911	67,423	14,183	27,299	51,174	113,909	2,486	13,421	64,215
Office furniture (S.I.C. Group 252), total.....	241	21,652	84,826	18,170	36,447	66,140	154,566	5,350	20,747	104,548
New England.....	4	89	401	76	177	319	710	(D)	259	972
Middle Atlantic.....	86	7,682	28,949	6,416	13,338	22,973	54,618	(D)	7,120	37,954
New York.....	57	4,734	18,115	3,835	8,017	14,202	38,047	1,000	5,233	30,614
New Jersey.....	7	672	2,606	523	1,082	1,901	3,494	(D)	553	2,518
Pennsylvania.....	22	2,275	8,227	2,058	4,238	6,869	13,076	508	1,334	4,822
East North Central.....	72	10,455	44,727	8,805	17,149	34,895	78,300	3,027	11,282	58,023
Ohio.....	15	4,790	21,041	4,004	7,694	16,533	36,294	1,585	(D)	(D)
Indiana.....	15	1,550	5,296	1,291	2,509	4,014	8,934	( <sup>2</sup> )	1,176	6,047
Illinois.....	14	1,260	5,431	994	1,916	3,742	8,591	(D)	1,490	7,443
Michigan.....	20	2,494	11,583	2,210	4,406	9,623	21,880	( <sup>2</sup> )	1,879	11,409
Wisconsin.....	8	360	1,375	304	621	982	2,600	( <sup>2</sup> )	(D)	(D)
West North Central.....	20	1,002	3,384	817	1,628	2,418	6,981	( <sup>2</sup> )	572	2,744
Iowa.....	4	502	1,629	422	850	1,234	4,168	( <sup>2</sup> )	(D)	(D)
Missouri.....	8	338	1,253	266	536	846	1,927	( <sup>2</sup> )	296	1,375
South Atlantic.....	9	1,623	4,537	1,377	2,800	3,331	9,200	( <sup>2</sup> )	(D)	(D)
North Carolina.....	6	1,034	2,699	927	1,898	2,131	4,722	( <sup>2</sup> )	814	2,427
East South Central.....	7	107	334	90	173	252	354	( <sup>2</sup> )	(D)	(D)
West South Central.....	10	207	600	177	380	479	1,068	( <sup>2</sup> )	(D)	(D)
West.....	33	485	1,893	408	800	1,469	3,331	(D)	294	1,383
California.....	29	455	1,783	377	745	1,361	3,120	( <sup>2</sup> )	(D)	(D)
Public and professional fur- niture (S.I.C. Group 253), total.....	394	19,570	75,730	15,791	32,955	54,758	125,674	4,732	15,410	70,288
New England.....	23	602	2,147	498	1,051	1,622	3,105	( <sup>2</sup> )	(D)	(D)
Massachusetts.....	14	300	1,080	255	527	864	1,446	( <sup>2</sup> )	(D)	(D)
Middle Atlantic.....	78	3,222	12,722	2,673	5,426	9,549	21,827	564	(D)	(D)
New York.....	44	2,125	8,512	1,742	3,557	6,241	15,098	( <sup>2</sup> )	1,244	6,423
New Jersey.....	5	166	508	151	319	407	837	(D)	(D)	(D)
Pennsylvania.....	29	930	3,701	779	1,549	2,899	5,891	(D)	578	2,312

See footnotes at end of table.



## MANUFACTURES—INDUSTRY STATISTICS

Table 2.—GENERAL STATISTICS FOR INDUSTRY GROUPS BY REGIONS AND STATES: 1954 AND 1947—Con.

(For explanation of column captions see Introduction)

Industry group, region, and State <sup>1</sup>	1954								1947	
	Number of establish- ments	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
		Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
Public and professional furniture (S.I.C. Group 253)—Continued										
East North Central.....	123	8,984	38,050	6,972	14,546	26,949	62,252	2,265	8,759	39,362
Ohio.....	31	920	3,575	732	1,495	2,651	5,207	(2)	593	2,275
Indiana.....	19	597	2,100	490	1,000	1,484	3,497	(2)	1,042	4,248
Illinois.....	31	1,238	4,828	1,066	2,240	3,582	8,214	500	1,525	6,939
Michigan.....	22	4,393	20,222	3,293	6,762	14,168	32,412	1,088	3,964	17,616
Wisconsin.....	20	1,835	7,324	1,388	3,047	5,062	12,921	(2)	1,635	8,284
West North Central.....	31	1,250	5,102	956	1,971	3,541	8,417	(2)	487	1,791
Minnesota.....	6	130	415	109	230	350	742	(2)	(D)	(D)
Missouri.....	17	964	4,012	732	1,465	2,726	6,371	(2)	(D)	(D)
South Atlantic.....	34	2,620	7,590	2,170	4,611	5,497	13,360	700	1,017	2,888
North Carolina.....	14	1,465	3,963	1,290	2,831	3,093	6,358	(2)		
Georgia.....	6	175	462	149	347	360	785	(2)		
East South Central.....	16	193	461	175	361	415	641	(2)		
West South Central.....	34	1,548	4,661	1,377	3,057	3,615	7,951	(2)		
Arkansas.....	7	228	663	194	403	513	819	(2)	...	...
Texas.....	19	1,170	3,588	1,060	2,411	2,835	6,593	(2)		
Mountain.....	4	119	514	94	210	346	771	(2)	355	1,592
Pacific.....	51	1,029	4,481	872	1,717	3,221	7,346	(2)		
California.....	45	907	4,064	759	1,512	2,840	6,729	(2)	309	1,469
Partitions and fixtures (S.I.C. Group 254), total <sup>3</sup> ...	1,626	33,137	142,515	26,584	53,101	102,071	230,712	7,031	27,816	137,814
Screens, shades, and blinds (S.I.C. Group 256), total...	1,327	18,189	59,722	14,328	27,999	40,090	109,931	3,853	19,652	81,872
New England.....	69	1,030	2,728	853	1,691	2,049	4,828	(2)	(D)	(D)
Massachusetts.....	37	682	1,661	589	1,211	1,344	2,728	(2)	(D)	(D)
Connecticut.....	19	162	445	114	221	265	917	(2)	102	414
Middle Atlantic.....	318	4,091	13,630	3,201	6,409	9,128	24,052	661	(D)	(D)
New York.....	190	2,052	6,966	1,576	3,122	4,407	12,896	(2)	2,594	10,024
New Jersey.....	61	519	1,557	387	759	954	2,663	(2)	(D)	(D)
Pennsylvania.....	67	1,519	5,106	1,238	2,527	3,766	8,492	(2)	1,217	4,799
East North Central.....	223	4,562	16,712	3,621	7,060	11,688	32,730	1,233	6,629	30,526
Illinois.....	104	1,397	4,814	1,065	1,925	2,819	9,234	(D)	1,918	10,011
Michigan.....	43	1,639	6,281	1,463	2,956	5,272	14,011	(2)	1,897	8,059
Wisconsin.....	7	219	666	173	370	520	1,169	(D)	(D)	(D)
West North Central.....	58	708	2,558	636	1,252	1,619	4,509	(2)	1,373	4,983
Missouri.....	24	477	1,893	454	904	1,188	3,249	(2)	693	2,968
South Atlantic.....	179	3,511	10,453	2,746	5,329	7,107	17,598	714	1,642	6,074
Virginia.....	19	279	763	211	413	459	1,149	(2)	(D)	(D)
Georgia.....	31	271	649	210	376	431	1,524	(2)	(D)	(D)
Florida.....	65	780	2,543	563	1,134	1,578	4,123	(D)	(D)	(D)
East South Central.....	65	699	1,866	557	1,052	1,250	3,995	(2)	665	2,015
Tennessee.....	22	387	992	325	609	697	2,166	(2)	389	941
West South Central.....	173	1,771	5,419	1,360	2,706	3,248	10,217	(2)	1,564	6,474
Oklahoma.....	18	564	2,274	424	956	1,385	5,054	(2)	399	2,462
Texas.....	126	1,039	2,756	805	1,539	1,607	4,441	(2)	1,027	3,528
Mountain.....	43	216	617	138	260	320	906	(2)	(D)	(D)
Pacific.....	199	1,598	5,736	1,214	2,235	3,678	11,093	(2)	(D)	(D)
California.....	171	1,468	5,395	1,109	2,052	3,411	10,415	(2)	1,684	8,538
Furniture and fixtures, n.e.c. (S.I.C. Group 259), total.....	215	4,211	15,687	3,512	6,968	11,485	24,782	694	4,219	19,350
New England.....	16	262	783	230	433	626	1,285	(D)	99	328
Middle Atlantic.....	68	1,096	4,017	929	1,878	2,960	7,082	(D)	1,080	4,824
New York.....	44	437	1,600	372	737	1,162	2,080	(2)	639	2,976
New Jersey.....	5	141	523	123	252	421	1,022	(D)	250	1,189
Pennsylvania.....	19	518	1,893	434	888	1,376	3,979	(D)	191	659

See footnotes at end of table.

## FURNITURE AND FIXTURES

25-5

Table 2.—GENERAL STATISTICS FOR INDUSTRY GROUPS BY REGIONS AND STATES: 1954 AND 1947—Con.

(For explanation of column captions see Introduction)

Industry group, region, and State <sup>1</sup>	1954								1947	
	Number of establish- ments	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
		Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
Furniture and fix- tures, n.e.c. (S.I.C. Group 259)—Continued										
East North Central.....	34	1,043	3,930	878	1,792	2,878	6,719	( <sup>2</sup> )	1,386	7,034
Illinois.....	10	308	1,143	278	549	900	2,010	( <sup>2</sup> )	900	4,720
Michigan.....	10	127	513	101	208	341	1,046	( <sup>2</sup> )	191	892
Wisconsin.....	4	491	1,840	406	864	1,336	3,073	(D)	(D)	(D)
West North Central.....	24	909	3,548	738	1,425	2,559	4,254	( <sup>2</sup> )	750	3,306
Missouri.....	14	785	3,096	634	1,227	2,222	3,383	( <sup>2</sup> )	(D)	(D)
South Atlantic.....	10	210	670	174	304	455	1,202	( <sup>2</sup> )	312	805
East South Central.....	6	40	118	34	67	81	270	( <sup>2</sup> )	64	131
West South Central.....	16	237	818	171	382	569	1,550	( <sup>2</sup> )	104	645
West.....	41	413	1,803	354	685	1,354	2,417	(D)	424	2,277
California.....	32	314	1,310	273	524	1,046	1,746	( <sup>2</sup> )	(D)	(D)

Note: Detailed figures may not add to the totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>Each producing state not shown separately has been withheld either (a) to avoid disclosing figures for individual companies; or (b) because the state had less than 100 employees in the industry group. Such State figures are included, however, in the appropriate regional and United States totals.<sup>2</sup>Less than \$500 thousand.<sup>3</sup>This industry sub-group consists of a single four-digit industry. Detailed data by state are included in the four-digit industry tables.

## MANUFACTURES—INDUSTRY STATISTICS

Table 3.—DETAILED STATISTICS FOR THE INDUSTRY GROUP: 1954

(For explanation of line captions see Introduction)

Item	Major industry group 25	Item	Major industry group 25
Number of establishments, total.....	10,273	Cost and quantity of purchased fuel and electricity—Con.	
With 1-19 employees.....	7,261	Electric energy:	
With 20-99 employees.....	2,282	Purchased:	
With 100 employees and over.....	730	Quantity.....million kwh..	1,131
All employees:		Cost.....\$1,000..	18,830
Number (average for year).....	340,694	Generated.....million kwh..	87
Payroll.....\$1,000..	1,197,376	Sold:	
Production workers:		Quantity.....do....	1
Number (average for year).....	286,649	Value.....\$1,000..	24
Man-hours.....1,000..	571,294		
Wages.....\$1,000..	892,891	Manufacturers' inventories:	
Value added by manufacture.....do....	1,966,410	Beginning of year, total.....do....	596,050
Value added by resales.....do....	27,089	Finished products.....do....	159,669
Number of employees for selected months:		Work-in-process.....do....	139,617
March.....	338,964	Materials, supplies, fuel, etc.....do....	296,750
May.....	330,807	End of year, total.....do....	581,828
August.....	340,194	Finished products.....do....	164,974
November.....	352,793	Work-in-process.....do....	138,319
Cost and quantity of purchased fuel and electricity:		Materials, supplies, fuel, etc.....do....	278,520
Fuels consumed, total cost.....\$1,000..	11,755	Expenditures for plant and equipment:	
Bituminous coal and anthracite:		Capital expenditures, new.....do....	61,945
Quantity.....1,000 short tons..	658	New structures and additions to plant.....do....	22,477
Value.....\$1,000..	5,769	New machinery and equipment.....do....	39,468
Coke:		Expenditures for used plant and equipment.....do....	5,186
Quantity.....1,000 short tons..	3		
Value.....\$1,000..	64	Horsepower rating of power equipment at end of 1954:	
Fuel oil:		Total horsepower of prime movers and electric	
Quantity.....1,000 barrels..	667	motors driven by purchased energy.....1,000 hp..	949
Value.....\$1,000..	2,760	Engines, etc., driving electric generators.....do....	79
Gas:		Engines, etc., not driving electric	
Quantity.....million cubic feet..	6,434	generators.....do....	20
Value.....\$1,000..	2,411	Electric motors driven by purchased energy.....do....	850
Other fuels:		Electric motors driven by energy generated at the	
Value.....do....	751	establishment.....do....	74

Note: Detailed figures may not add to totals because of independent rounding.







## Household Furniture

This report shows 1954 Census of Manufactures statistics for establishments primarily engaged in manufacturing household furniture classified into each of the following industries:

<u>Code</u>	<u>Title</u>
2511—Wood House Furniture, Not Upholstered	
2512—Upholstered Household Furniture	
2514—Metal Household Furniture	
2515—Mattresses and Bedsprings	
2519—Household Furniture, Not Elsewhere Classified	

Establishments primarily engaged in making furniture to order of individual household consumers or primarily engaged in renovating furniture or mattresses are classified in nonmanufacturing industries. Establishments primarily engaged in making furniture parts (except wood frames or headboards) are not included in this group of industries but are generally classified in Major Group 24, Lumber and Wood Products or Major Group 34, Fabricated Metal Products. For example, furniture turnings are included in Industry 2499, Wood Products, N.E.C., and furniture hardware including casters are included in Industry 3429, Hardware, N.E.C.

As a group, the industries included in this report specialize in the production of household furniture and account for practically all (95 percent) of the household furniture produced. Shipments of products, other than household furniture, by the household furniture industries are very small amounting to but 4 percent of the total shipments. However, specialization by individual industries in the production of those products belonging to the particular industry varies from a high of 94 percent for Industry 2511 and Industry 2512 to a low of 77 percent for Industry 2515.

**2511—Wood Furniture, Not Upholstered** (Full Standard Industrial Classification Title: Wood Household Furniture, Except Upholstered)

This industry comprises establishments primarily engaged in manufacturing wood household furniture commonly used in dwellings. This industry also includes wooden cases and cabinets for radios and sewing machines, kitchen cabinets, camp furniture, nursery furniture, headboards for hollywood beds, and smoking stands. Establishments primarily engaged in manufacturing upholstered furniture or wood frames for upholstered furniture are classified in Industry 2512, Household Furniture, Upholstered, and reed and rattan furniture in Industry 2519, Household Furniture, N.E.C. Plants primarily engaged in renovating or refinishing furniture are classified in trade industries and plants selling household furniture to household consumers through a retail store on the manufacturing premises, are included in retail trade. For a detailed list of primary products of industry 2511, refer to Table 6A, product codes 2511111 to 2511998.

The value of shipments of Industry 2511, Wood House Furniture, Not Upholstered, in 1954 totaled \$1,113 million. This included shipments of primary products (wood house furniture, not upholstered) valued at \$1,036 million, shipments of secondary products valued at \$72 million, and miscellaneous receipts of \$5 million.

Industry 2511 shipments of wood house furniture, not upholstered in 1954 represented 94 percent of its total product shipments (primary and secondary). In 1947, this primary product specialization ratio was also 94 percent. Secondary products shipped by this industry in 1954 consisted mainly of upholstered wood household furniture, about \$28 million, and other household furniture, \$7 million.

Industry 2511 shipments of wood house furniture, not upholstered, in 1954 represented 93 percent of the wood house furniture, not upholstered, valued at \$1,113 million shipped by all industries. The comparable 1947 coverage ratio was 94 percent. Other industries shipping wood house furniture, not upholstered, consisted mainly of Industry 2431, Millwork Plants, \$22 million most of which was wood kitchen cabinet Industry 2512, and Household Furniture, Upholstered, \$19 million.

**2512—Household Furniture, Upholstered** (Full Standard Industrial Classification Title: Wood Household Furniture, Upholstered)

This industry comprises establishments primarily engaged in manufacturing upholstered furniture on wood frames, or manufacturing wood frames for upholstered furniture. Shops primarily engaged in reupholstering furniture, or upholstering frames to individual order are classified in nonmanufacturing industries. Establishments primarily engaged in manufacturing dual purpose sleep furniture, such as studio couches, convertible sofas, jackknife sofa beds, and chair beds, are classified in this industry regardless of the materials used in the frame. For a detailed list of primary products of Industry 2512, refer to Table 6A, product codes 2512111 to 2512611.

The S.I.C. definition for this industry has been amended by the Bureau of the Budget to include dual purpose sleep furniture in Industry 2512 rather than in Industry 2514. This is generally consistent with earlier Census practice and, therefore, the 1954 Census data are comparable with the earlier years.

The value of shipments of Industry 2512, Upholstered Household Furniture, in 1954 totaled \$633 million. This included shipments of primary products (household furniture, upholstered) valued at \$590 million, shipments of secondary products valued at \$39 million, and miscellaneous receipts of \$4 million.

Industry 2512 shipments of upholstered household furniture in 1954 represented 94 percent of its total product shipments (primary and secondary). In 1947, this primary product specialization ratio was 92 percent. Secondary products shipped by this industry in 1954 consisted mainly of wood household furniture, not upholstered \$18 million, mattresses and bedsprings, \$14 million.

Industry 2512 shipments of upholstered household furniture, in 1954 represented 85 percent of the upholstered household furniture, valued at \$690 million shipped by all industries. The comparable 1947 coverage ratio was 83 percent. Other industries shipping upholstered household furniture, consisted mainly of Industry 2515, Mattresses and Bedsprings, \$66 million, and Industry 2511, Wood House Furniture, Not Upholstered, \$29 million. Industry 2512 products produced in other furniture industries was mainly dual purpose sleep furniture of which 55 percent of the total of \$100 million was produced by plants primarily producing mattresses and bedsprings.

**2514—Metal House Furniture** (Full Standard Industrial Classification Title: Metal Household Furniture)

This industry comprises establishments primarily engaged in manufacturing metal household furniture of a type commonly used in dwellings, whether padded, upholstered, or plain. Establishments primarily engaged in manufacturing dual purpose furniture, such as studio couches, sofa beds, and chair-beds are classified in Industry 2512, Household Furniture, Upholstered, regardless of the materials used in the frame. For a detailed list of primary products of Industry 2514, refer to Table 6A, product codes 2514111 to 2514598.



The S.I.C. definition for this industry has been amended by the Bureau of the Budget to include dual purpose furniture in Industry 2512 rather than in Industry 2514. This is generally consistent with earlier Census practice and, therefore, the 1954 Census data are comparable with earlier years.

The value of shipments of Industry 2514, Metal House Furniture, Not Upholstered, in 1954 totaled \$403 million. This included shipments of primary products (metal house furniture, not upholstered) valued at \$344 million, shipments of secondary products valued at \$54 million, and miscellaneous receipts of \$5 million.

Industry 2514 shipments of metal house furniture, not upholstered in 1954 represented 87 percent of its total product shipments (primary and secondary). In 1947, this primary product specialization ratio was 83 percent. Secondary products shipped by this industry in 1954 consisted mainly of mattresses and bedsprings, \$4 million, and Public Building Furniture, \$4 million.

Industry 2514 shipments of metal house furniture, not upholstered, in 1954 represented 83 percent of the metal house furniture, not upholstered, valued at \$416 million shipped by all industries. The comparable 1947 coverage ratio was 73 percent. Other industries shipping metal house furniture, not upholstered, consisted mainly of Industry 3431, Metal Plumbing Fixtures and Fittings, Industry 3729, Aircraft Equipment N.E.C.; and Industry 2541, Partitions and Fixtures, whose total shipments of these products amounted to \$20 million.

#### 2515--Mattresses and Bedsprings

This industry comprises establishments primarily engaged in manufacturing mattresses (including foam-rubber and box-spring mattresses); assembled wire springs (fabric, coil, or box) for use on beds, couches, and cots; and spring cushions. Establishments primarily engaged in manufacturing individual wire springs are classified in Industry 3489; Wirework, N.E.C., padding and upholstery filling in Industry 2293, Padding and Upholstery Filling; quilted mattresses protectors in Industry 2392, Housefurnishings, N.E.C.; and, latex foam rubber mattress cores in Industry 3099, Rubber Industries, N.E.C. Establishments primarily engaged in repair, renovating, etc., mattresses and bedsprings are classified in service industries. For a detailed list of primary products of Industry 2515, refer to Table 6A, product codes 2515111 to 2515271.

Minor changes in the content of this industry have been made since 1947: (1) establishments primarily engaged in manufacturing hospital bedsprings formerly included in Industry 2532, Professional Furniture, are now included in this industry; and, (2) headboards for hollywood beds formerly included in this industry are now classified in Industry 2511, Wood House Furniture, Not Upholstered. These changes have a relatively insignificant effect on the comparability of the 1954 Census data with the data for earlier years.

The value of shipments of Industry 2515, Mattresses and Bedsprings, in 1954 totaled \$465 million. This included shipments of primary products (mattresses and bedsprings) valued at \$351 million, shipments of secondary products valued at \$108 million, and miscellaneous receipts of \$6 million.

Industry 2515 shipments of mattresses and bedsprings in 1954 represented 77 percent of its total product shipments (primary and secondary). In 1947, this primary product specialization ratio was 76 percent. Secondary products shipped by this industry in 1954 consisted mainly of dual purpose sleep furniture, \$55 million, and metal beds, cots, and other metal house furniture, \$10 million.

Industry 2515 shipments of mattresses and bedsprings in 1954 represented 91 percent of the mattresses and bedsprings valued at \$386 million shipped by all industries. The comparable 1947 coverage ratio was 93 percent. Other industries shipping mattresses and bedsprings consisted mainly of Industry 2512, Household Furniture, Upholstered, \$14 million, Industry 3099, Rubber Industries, N.E.C., over \$5 million and Industry 2514, Metal House Furniture, \$3 million.

#### 2519--Household Furniture, Not Elsewhere Classified

This industry comprises establishments primarily engaged in manufacturing reed, rattan, fiber, willow, and other wicker furniture, whether padded or plain; and those manufacturing other household furniture (except wood and metal), such as plastic radio, phonograph, and TV cabinets, and wood framed paperboard storage cabinets and wardrobes. For a detailed list of primary products of Industry 2519, refer to Table 6A, product codes 2519111 to 2519398.

The S.I.C. definition for this industry has been amended by the Bureau of the Budget to include all of former S.I.C. Industry 2513, Reed and Rattan Furniture. Earlier Census data have been retabulated and are comparable with the 1954 Census.

The value of shipments of Industry 2519, Household Furniture, N.E.C., in 1954 totaled \$16 million. This included shipments of primary products (household furniture, n.e.c.) valued at \$13 million, shipments of secondary products valued at \$2 million, and miscellaneous receipts of \$1 million.

Industry 2519 shipments of household furniture, n.e.c. in 1954 represented 86 percent of its total product shipments (primary and secondary). In 1947, the primary product specialization ratio was 83 percent.

Industry 2519 shipments of household furniture, n.e.c., in 1954 represented 59 percent of the household furniture, n.e.c., valued at \$22 million shipped by all industries. The 1947 comparable coverage ratio was 71 percent. Other industries shipping household furniture, n.e.c., consisted mainly of Industry 3971, Plastics Products, N.E.C., which shipped approximately \$7 million of plastic radio, phonograph and television cabinets.

The general statistics (employment, payrolls, value of shipments, cost of materials, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products, and, for that matter, their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (Tables 1-4) with product statistics (Table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in Table 5A which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry made as secondary products by establishments classified in other industries.

## HOUSEHOLD FURNITURE

25A-3

Table 1.—GENERAL STATISTICS FOR THE UNITED STATES: 1954 AND EARLIER YEARS  
(For explanation of column captions see Introduction)

Industry and census year	Establishments, number	All employees		Production workers		Value added by manufacture <sup>2</sup> (\$1,000)	Cost of materials, etc. <sup>3</sup> (\$1,000)	Value of shipments <sup>4</sup> (\$1,000)
		Number <sup>1</sup>	Payroll (\$1,000)	Number <sup>1</sup>	Wages (\$1,000)			
Wood furniture, not upholstered (S.I.C. 2511):								
1954 <sup>2</sup> .....	2,785	124,898	388,409	109,618	303,249	592,714	520,550	1,113,264
1953 <sup>3</sup> .....	(NA)	142,563	445,747	127,385	359,871	688,161	606,929	1,295,090
1952 <sup>3</sup> .....	(NA)	126,208	385,033	111,278	300,618	617,420	537,606	1,155,026
1951 <sup>3</sup> .....	(NA)	136,106	396,926	121,242	310,507	616,140	542,503	1,158,643
1950 <sup>3</sup> .....	(NA)	140,341	378,732	125,460	303,145	601,239	534,691	1,135,930
1949 <sup>3</sup> .....	(NA)	123,717	306,928	110,856	241,731	450,790	360,670	811,460
1947 <sup>3</sup> .....	2,248	132,050	304,614	120,062	253,156	489,145	409,529	898,674
1939 <sup>7</sup> .....	1,273	(NA)	(NA)	83,923	72,272	147,093	130,975	278,068
Upholstered household furniture (S.I.C. 2512):								
1954 <sup>2</sup> .....	1,780	56,022	193,596	48,119	146,990	313,034	319,780	632,813
1953 <sup>3</sup> .....	(NA)	57,832	199,237	50,610	157,424	316,802	327,930	644,732
1952 <sup>3</sup> .....	(NA)	50,509	174,838	44,474	135,811	292,516	268,410	560,926
1951 <sup>3</sup> .....	(NA)	48,522	154,438	42,449	119,561	268,903	244,769	513,672
1950 <sup>3</sup> .....	(NA)	52,191	151,511	46,210	119,939	245,462	254,977	500,439
1947.....	1,391	44,755	114,861	39,786	92,908	192,430	188,623	381,053
1939 <sup>7</sup> .....	977	(NA)	(NA)	32,226	32,481	67,696	68,320	136,016
1937 <sup>8</sup> .....	791	(NA)	(NA)	31,667	32,995	65,611	73,654	139,265
Metal household furniture (S.I.C. 2514):								
1954 <sup>2</sup> .....	641	29,629	110,933	24,345	80,199	190,816	211,758	402,575
1953 <sup>3</sup> .....	(NA)	26,072	96,655	21,744	72,182	161,814	187,871	349,685
1952 <sup>3</sup> .....	(NA)	26,796	97,488	22,414	71,180	183,432	200,291	383,723
1951 <sup>3</sup> .....	(NA)	25,834	88,926	21,723	64,195	169,581	195,986	365,567
1950 <sup>3</sup> .....	(NA)	25,299	80,788	21,400	60,380	157,474	179,864	337,338
1947.....	312	19,651	52,463	16,819	40,240	97,087	97,764	194,851
1939 <sup>7</sup> .....	138	(NA)	(NA)	7,633	8,490	19,587	20,380	39,967
Mattresses and bedsprings (S.I.C. 2515):								
1954 <sup>2</sup> .....	1,195	32,096	121,516	25,122	84,588	216,362	248,153	464,516
1953 <sup>3</sup> .....	(NA)	32,636	123,756	26,646	89,065	214,002	248,147	462,149
1952 <sup>3</sup> .....	(NA)	29,202	104,223	24,646	77,651	182,954	227,263	410,217
1951 <sup>3</sup> .....	(NA)	31,417	103,148	26,719	76,504	179,206	262,355	441,561
1950 <sup>3</sup> .....	(NA)	31,099	98,496	26,334	70,502	161,234	225,587	386,821
1949 <sup>3</sup> .....	(NA)	25,956	81,945	23,367	58,872	146,800	159,141	305,941
1947.....	878	30,320	82,063	25,444	60,802	146,005	184,999	331,004
1939.....	947	23,062	29,264	18,342	19,498	52,173	60,942	113,115
1937.....	839	22,333	26,446	19,165	19,811	49,930	63,190	113,120
1935.....	824	17,918	19,775	15,404	14,668	35,862	48,949	84,811
1933.....	645	15,130	13,446	13,280	10,694	27,233	32,491	59,724
1931.....	781	(NA)	(NA)	13,622	14,702	39,999	37,509	77,508
1929.....	951	19,856	29,598	17,187	22,584	61,753	61,527	123,280
1927.....	838	16,206	23,891	13,481	16,887	46,653	52,182	98,835
1925 <sup>3</sup> .....	1,018	17,304	23,883	14,403	17,430	48,228	62,489	110,717
1923.....	1,015	17,104	23,018	14,103	16,473	46,085	61,477	107,562
1921.....	889	14,045	18,778	11,748	13,546	32,568	42,056	74,624
1919.....	1,041	15,261	18,364	12,637	12,805	34,744	49,209	83,953
1914.....	1,000	13,971	9,414	11,747	6,723	16,318	22,399	38,717
1909.....	930	13,240	7,810	11,322	5,771	15,300	20,483	35,783
1904.....	716	11,681	6,069	10,427	4,816	12,429	15,326	27,755
1899.....	589	8,500	3,872	7,649	3,102	7,729	10,227	17,956
Household furniture, n.e.c. (S.I.C. 2519):								
1954 <sup>2</sup> .....	69	1,285	4,437	1,056	3,316	7,815	7,760	15,576
1947 <sup>3</sup> .....	50	1,653	4,057	1,459	3,076	7,738	6,292	14,030

NA Not available.

<sup>1</sup>For the period 1949-1954, figures are based on employment for the payroll periods ended nearest the 15th of March, May, August and November. For 1947, they represent the average of 12 monthly figures. For earlier years, the production worker average was calculated as in 1947, but the figure for all employees represents the sum of the annual average number of production workers and the number of nonproduction workers reported for one payroll period (usually in October).

<sup>2</sup>Value of products less cost of materials, supplies, fuel, electric energy and contract work. See Introduction, "Value Added by Manufacture."

<sup>3</sup>Figures prior to 1935 do not include cost of contract work.

<sup>4</sup>For 1929 and 1947-1954, value of shipments; for all other years, value of production. See Introduction, "Value of Shipments."

<sup>5</sup>In this industry, which contains a large number of very small establishments, there is a possibility that some of these small establishments have been misclassified as to industry. This would not affect the statistics other than the number of establishments.

<sup>6</sup>The figures for 1949-1953 represent estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period. Estimates with a standard error in excess of 15 percent generally have been omitted from this table.

<sup>7</sup>The figures for 1939 are not entirely comparable with earlier years. Value added by manufacture for 1939 on a basis comparable with 1937 was \$62.7 million for "Household furniture, upholstered." No comparable figures are available for "Wood house furniture, except upholstered," and "Metal house furniture, except upholstered" prior to 1939.

<sup>8</sup>Upholstered household furniture" was formerly a part of the discontinued classification "Furniture, including store and office fixtures." Separate figures are therefore not available prior to 1937.

<sup>9</sup>The figures for 1899-1925 include data for establishments engaged primarily in renovating mattresses.

<sup>10</sup>Reed and rattan furniture, reported as a separate industry (2513) in 1947, is now included in Industry 2519. The returns for 1947 have been retabulated to provide figures comparable for 1954. No comparable figures are available for prior years.



## MANUFACTURES—INDUSTRY STATISTICS

Table 2.—GENERAL STATISTICS BY REGIONS AND STATES: 1954 AND 1947  
(For explanation of column captions see Introduction)

Industry, region, and State <sup>1</sup>	1954											1947	
	Establishments, number		All employees		Production workers			Value added by manufacture	Cost of materials, etc.	Value of shipments	Capital expenditures, new	All employees, number	Value added by manufacture
	Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)		(\$1,000)
Wood furniture not upholstered (S.I.C. 2511); total.....	2,785	958	124,898	388,409	109,618	222,063	303,249	592,714	520,550	1,113,264	17,161	132,050	489,145
New England.....	207	76	8,077	27,770	6,962	14,261	20,943	38,215	30,281	68,497	1,218	6,832	24,519
Maine.....	9	5	489	1,212	451	982	1,035	1,757	1,038	2,796	86	180	517
New Hampshire.....	26	12	1,303	4,219	1,138	2,419	3,323	6,498	5,462	11,961	140	808	2,809
Vermont.....	18	10	1,155	3,808	995	2,161	2,809	5,221	3,621	8,853	(D)	1,289	(D)
Massachusetts.....	114	40	4,395	16,061	3,758	7,468	11,984	21,349	17,141	38,490	426	3,884	14,382
Rhode Island.....	5	1	67	208	58	126	173	338	278	617	(D)	121	(D)
Connecticut.....	35	8	665	2,261	559	1,103	1,617	3,048	2,728	5,777	143	550	2,022
Middle Atlantic.....	704	205	20,186	67,407	17,576	35,552	53,113	104,835	87,310	192,147	2,602	20,710	81,819
New York.....	425	111	10,042	35,560	8,718	17,438	28,040	55,881	45,277	101,158	1,447	10,679	45,433
New Jersey.....	111	27	2,046	6,984	1,692	3,485	5,089	11,842	12,954	24,797	208	1,463	5,669
Pennsylvania.....	168	67	8,097	24,862	7,165	14,628	19,984	37,111	29,078	66,191	946	8,568	30,717
East North Central.....	514	241	28,392	98,427	24,584	49,824	76,618	141,809	115,312	257,122	3,504	36,590	139,108
Ohio.....	56	16	1,863	5,628	1,657	3,172	4,690	9,409	7,516	16,925	346	2,506	9,439
Indiana.....	123	86	11,181	36,286	9,709	18,977	28,699	49,247	46,466	95,713	1,240	13,831	49,984
Illinois.....	156	66	6,410	23,862	5,575	11,067	18,388	34,887	28,656	63,544	803	8,086	35,099
Michigan.....	121	51	6,026	22,455	5,167	11,302	17,012	32,392	21,419	53,812	681	8,417	29,067
Wisconsin.....	58	22	2,910	10,195	2,475	5,304	7,828	15,873	11,253	27,127	433	4,110	15,519
West North Central.....	99	26	1,966	6,296	1,651	3,240	4,824	8,716	8,223	16,940	399	3,427	10,355
Missouri.....	38	11	680	2,031	570	1,133	1,562	2,862	2,795	5,658	(D)	1,712	4,956
Nebraska.....	5	...	13	47	12	25	36	106	230	336	2	19	(D)
South Atlantic.....	444	202	39,975	107,528	35,797	73,419	85,559	175,109	168,072	343,181	5,298	38,505	142,134
Maryland.....	18	6	611	2,420	458	965	1,401	3,773	3,523	7,296	82	710	2,369
Virginia.....	79	39	11,105	31,910	9,586	20,416	24,994	55,797	57,213	113,010	1,602	12,323	47,618
West Virginia.....	6	5	496	1,304	409	721	950	1,860	1,007	2,868	(D)	(D)	(D)
North Carolina.....	153	96	22,082	58,072	20,294	40,985	47,503	92,565	86,634	179,199	2,632	19,868	75,067
South Carolina.....	19	11	2,108	5,195	1,889	3,956	4,051	8,309	7,956	16,266	357	2,138	5,790
Georgia.....	64	23	2,106	4,384	1,934	3,836	3,609	6,122	6,281	12,403	254	2,299	7,554
Florida.....	102	22	1,453	4,210	1,213	2,520	3,027	6,642	5,389	12,031	350	689	(D)
East South Central.....	158	76	11,034	30,749	9,721	19,679	23,081	44,602	40,749	85,351	1,774	11,008	32,821
Kentucky.....	41	23	3,376	11,158	2,882	5,817	8,068	15,304	12,433	27,737	728	4,948	16,510
Tennessee.....	70	31	4,744	11,563	4,238	8,400	8,609	17,769	15,960	33,730	587	4,265	13,325
Alabama.....	33	15	895	2,045	796	1,526	1,679	3,503	4,610	8,114	(D)	493	816
Mississippi.....	14	7	2,017	5,982	1,804	3,934	4,724	8,025	7,744	15,770	(D)	1,302	2,170
West South Central.....	134	40	6,047	15,327	5,339	10,670	11,818	23,200	26,503	49,704	933	4,755	15,583
Arkansas.....	28	14	3,386	8,309	3,023	5,883	6,599	12,116	13,712	25,829	592	2,335	8,611
Louisiana.....	22	6	335	877	292	563	663	1,645	2,211	3,856	68	714	2,403
Oklahoma.....	15	4	659	1,774	605	1,326	1,455	2,707	2,843	5,551	81	462	(D)
Texas.....	69	16	1,666	4,366	1,417	2,897	3,099	6,731	7,736	14,468	190	1,244	(D)
Mountain.....	58	1	252	740	208	397	577	1,159	1,207	2,366	91	187	422
Arizona.....	12	...	43	128	35	62	100	203	220	423	9	49	(D)
Utah.....	7	...	40	108	33	65	79	167	214	382	2	15	(D)
Pacific.....	467	91	8,967	34,163	7,777	15,017	26,712	55,065	42,889	97,955	1,338	9,676	42,384
Washington.....	48	9	1,646	5,836	1,469	2,707	4,857	10,047	9,274	19,321	241	1,529	6,328
Oregon.....	20	4	1,040	3,882	951	1,861	3,179	6,618	3,752	10,370	182	2,274	9,342
California.....	399	78	6,279	24,445	5,357	10,448	18,676	38,400	29,863	68,263	915	5,873	26,714
Upholstered household furniture (S.I.C. 2512); total.....	1,780	643	56,022	193,596	48,119	93,276	146,990	313,034	319,780	632,813	6,934	44,755	192,430
New England.....	169	58	4,016	13,765	3,436	6,622	10,405	21,417	22,358	43,776	506	2,832	11,907
Maine.....	4	...	11	29	9	13	19	47	57	105	...	(D)	(D)
New Hampshire.....	9	3	128	336	107	202	224	634	753	1,387	8	(D)	(D)
Massachusetts.....	116	46	3,196	10,978	2,720	5,223	8,342	17,406	17,848	35,255	351	1,947	8,137
Connecticut.....	32	8	618	2,200	549	1,087	1,672	3,020	3,312	6,333	145	430	1,967
Middle Atlantic.....	471	112	9,987	37,880	8,426	15,778	28,349	63,861	58,396	122,258	828	8,190	40,730
New York.....	324	66	6,170	24,911	5,146	9,555	18,214	41,234	35,856	77,091	328	5,600	28,480
New Jersey.....	38	13	1,075	4,150	901	1,708	3,127	7,754	7,641	15,396	37	436	2,122
Pennsylvania.....	109	33	2,742	8,818	2,379	4,515	7,006	14,872	14,898	29,770	463	2,154	10,128
East North Central.....	301	140	13,304	50,566	11,220	21,688	37,658	80,200	76,543	156,744	1,853	12,129	56,466
Ohio.....	75	28	2,740	10,790	2,267	4,182	7,772	16,800	15,420	32,221	(D)	2,860	13,724
Indiana.....	42	32	3,256	11,265	2,795	5,591	8,500	18,151	18,597	36,749	(D)	2,240	8,921
Illinois.....	86	41	4,399	17,272	3,712	7,053	12,916	29,239	26,812	56,051	521	3,741	18,965
Michigan.....	72	28	2,064	8,178	1,756	3,466	6,357	11,556	10,728	22,285	297	2,241	(D)
Wisconsin.....	26	10	844	3,061	688	1,395	2,111	4,452	4,984	9,437	78	1,047	(D)
West North Central.....	77	33	2,527	9,211	2,166	4,139	6,788	14,468	16,241	30,710	198	2,359	9,405
Minnesota.....	21	7	540	2,316	457	881	1,705	3,498	2,661	6,160	21	619	2,497
Iowa.....	13	7	723	2,784	675	1,164	2,131	4,118	5,353	7,472	53	698	3,413
Missouri.....	28	14	785	2,368	680	1,279	1,719	3,770	5,154	8,924	46	721	(D)

See footnotes at end of table.



## HOUSEHOLD FURNITURE

25A-5

Table 2.—GENERAL STATISTICS BY REGIONS AND STATES: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Industry, region, and State <sup>1</sup>	1954										1947		
	Establishments, number		All employees		Production workers			Value added by manufacture	Cost of materials, etc.	Value of shipments	Capital expenditures, new	All employees, number	Value added by manufacture
	Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)		(\$1,000)
Upholstered household furniture—Continued													
South Atlantic.....	284	121	10,911	31,425	9,527	18,568	23,831	51,982	56,115	108,098	1,429	8,312	28,848
Maryland.....	24	9	498	1,482	436	835	1,033	2,500	2,384	4,885	26	632	2,263
Virginia.....	19	10	1,170	3,456	1,015	2,064	2,382	6,267	7,559	13,826	205	784	3,555
West Virginia.....	9	4	280	753	253	469	623	943	971	1,915	22	145	(D)
North Carolina.....	160	79	7,060	20,126	6,197	11,938	15,751	34,029	36,036	70,065	973	5,454	18,654
South Carolina.....	7	...	44	149	39	89	104	277	453	731	4	115	(D)
Georgia.....	31	13	1,336	3,803	1,152	2,369	2,857	5,545	6,034	11,580	124	842	2,582
Florida.....	34	6	521	1,654	431	801	1,078	2,419	2,676	5,095	73	340	1,137
East South Central.....	75	44	4,656	12,651	4,054	8,730	9,991	19,821	27,281	47,102	660	3,219	10,805
Kentucky.....	15	10	676	1,914	568	1,029	1,363	2,723	2,910	5,633	116	952	3,108
Tennessee.....	43	27	2,968	8,130	2,581	5,898	6,472	12,948	16,994	29,943	412	1,942	6,594
Alabama.....	12	4	328	688	291	581	559	1,221	1,333	2,554	34	(D)	(D)
Mississippi.....	5	3	683	1,918	612	1,220	1,596	2,928	6,043	8,971	97	(D)	(D)
West South Central.....	75	42	3,983	11,674	3,452	6,625	8,975	19,481	20,852	40,333	896	2,232	9,459
Arkansas.....	12	8	890	2,456	785	1,465	1,816	4,209	5,714	9,923	97	507	1,874
Louisiana.....	8	5	466	1,320	414	856	1,053	2,041	2,101	4,142	33	187	(D)
Oklahoma.....	5	1	75	222	65	140	177	373	602	976	49	70	(D)
Texas.....	50	28	2,551	7,676	2,187	4,163	5,928	12,857	12,434	25,292	716	1,468	6,743
Mountain.....	31	10	460	1,854	473	989	1,469	2,905	3,412	6,318	36	361	1,568
Colorado.....	14	6	260	889	227	453	691	1,319	1,660	2,979	11	158	684
Utah.....	10	3	153	870	203	477	689	1,384	1,439	2,823	16	162	612
Pacific.....	297	85	6,174	24,567	5,360	10,133	19,521	38,894	38,578	77,472	524	5,121	23,242
Washington.....	22	7	551	2,157	479	892	1,691	3,060	3,092	6,153	37	953	3,816
Oregon.....	12	4	359	1,407	321	643	1,065	1,899	2,295	4,195	8	602	2,804
California.....	263	74	5,264	21,003	4,559	8,597	16,764	33,934	33,189	67,124	478	3,566	16,622
Metal household furniture (S.I.C. 2514); total.....	641	261	29,629	110,933	24,345	47,083	80,199	190,816	211,758	402,575	8,720	19,651	97,087
New England.....	48	18	1,326	4,838	1,129	2,158	3,524	8,552	10,118	18,671	171	719	3,538
Maine.....	4	1	39	105	38	69	101	160	283	443	(D)	...	...
Middle Atlantic.....	237	94	7,679	27,639	6,440	12,418	20,290	45,754	51,779	97,534	1,978	4,485	24,351
New York.....	156	53	3,825	14,388	3,183	6,307	10,336	24,665	24,241	48,907	765	2,829	15,510
New Jersey.....	21	8	572	1,976	477	951	1,483	3,281	3,732	7,014	419	428	(D)
Pennsylvania.....	60	33	3,280	11,275	2,779	5,159	8,470	17,807	23,805	41,612	793	1,228	(D)
East North Central.....	151	81	13,099	53,759	10,416	20,306	38,024	94,065	95,374	189,439	4,659	(D)	(D)
Ohio.....	29	12	2,335	9,836	1,958	3,714	7,013	17,777	15,133	32,911	1,022	3,597	17,622
Indiana.....	23	20	4,576	18,595	3,613	6,895	13,312	32,850	33,307	66,158	1,708	1,976	10,404
Illinois.....	71	36	4,802	19,596	3,746	7,522	13,669	33,174	38,763	71,937	1,177	4,679	22,190
Michigan.....	23	10	1,170	5,059	919	1,863	3,561	9,125	6,548	15,674	720	678	(D)
Wisconsin.....	5	3	215	671	179	309	468	1,137	1,620	2,757	31	(D)	(D)
West North Central.....	16	6	1,306	4,457	1,123	2,223	3,449	7,096	8,975	16,071	110	(D)	(D)
Missouri.....	12	6	1,284	4,391	1,109	2,197	3,411	6,985	8,547	15,533	(D)	1,094	(D)
South Atlantic.....	61	25	2,262	5,602	1,970	3,436	4,140	10,499	16,883	27,383	555	(D)	(D)
Virginia.....	4	1	60	157	52	93	126	369	628	997	(D)	(D)	(D)
Florida.....	22	9	722	1,385	646	948	1,032	2,918	3,800	6,719	389	(D)	(D)
East South Central.....	23	12	1,202	4,187	996	2,074	2,975	6,579	8,512	15,092	507	700	(D)
Kentucky.....	7	5	393	1,711	280	668	1,008	2,281	4,000	6,281	78	400	(D)
Tennessee.....	6	4	486	1,505	426	854	1,235	2,729	2,981	5,711	73	78	(D)
West South Central.....	24	7	526	1,632	457	942	1,229	2,780	4,482	7,263	130	118	(D)
Oklahoma.....	4	...	18	29	14	28	21	81	97	178	4	...	...
Mountain.....	5	...	19	65	16	27	55	182	188	370	5	...	...
Pacific.....	76	18	2,207	8,757	1,794	3,494	6,510	15,305	15,444	30,750	601	882	4,968
California.....	70	17	2,099	8,375	1,703	3,326	6,209	14,914	14,839	29,753	(D)	726	(D)
Mattresses and bedsprings (S.I.C. 2515); total.....	1,195	266	32,096	121,516	25,122	49,325	84,588	216,362	248,153	464,516	5,306	30,320	146,005
New England.....	106	31	2,605	9,158	2,034	4,026	6,200	18,373	19,761	38,135	487	1,763	8,845
Maine.....	7	1	58	204	45	91	114	340	495	835	(D)	(D)	(D)
Massachusetts.....	60	22	1,994	6,836	1,565	3,038	4,738	13,968	14,783	28,751	278	1,391	7,432
Rhode Island.....	5	1	92	318	64	126	181	555	673	1,229	32	85	(D)
Connecticut.....	29	7	424	1,712	330	709	1,093	3,414	3,572	6,986	113	194	(D)
Middle Atlantic.....	283	64	6,418	25,524	4,903	9,153	17,056	45,102	56,730	101,832	1,142	6,576	32,648
New Jersey.....	56	13	2,596	11,192	1,988	3,660	8,160	19,872	22,651	42,524	324	2,348	12,193

See footnotes at end of table.

## MANUFACTURES--INDUSTRY STATISTICS

Table 2.—GENERAL STATISTICS BY REGIONS AND STATES: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Industry, region, and State <sup>1</sup>	1954										1947		
	Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
	Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
Mattresses and bed-springs—Continued													
North Central.....	241	71	11,398	47,633	8,777	17,514	34,534	76,030	84,023	160,054	(D)	11,680	57,141
Ohio.....	41	17	1,820	6,852	1,281	2,757	5,148	12,828	15,840	28,669	702	1,242	(D)
Wisconsin.....	19	5	3,350	14,620	2,658	5,136	12,591	20,495	17,951	38,447	261	4,162	(D)
Minnesota.....	14	5	590	2,777	449	834	1,688	3,959	5,131	9,091	82	661	3,559
Iowa.....	13	1	165	619	117	234	303	979	611	1,591	13	(D)	(D)
Missouri.....	21	4	411	1,562	316	626	965	3,666	5,593	9,259	46	652	3,389
Nebraska.....	5	2	111	484	90	180	282	813	1,159	1,973	(D)	142	677
Kansas.....	12	3	445	1,597	369	729	1,281	3,685	3,741	7,426	63	239	(D)
South.....	383	62	8,055	24,429	6,570	13,161	16,497	47,966	53,709	101,676	(D)	6,575	28,824
Maryland.....	10	6	400	1,352	320	621	811	2,772	3,433	6,206	35	404	1,354
Virginia.....	13	4	275	693	230	465	504	1,162	1,508	2,671	(D)	305	(D)
North Carolina.....	41	6	614	1,853	502	1,048	889	3,367	4,555	7,922	143	403	1,510
South Carolina.....	15	1	120	271	89	175	159	507	772	1,080	12	108	(D)
Georgia.....	24	4	1,958	6,202	1,691	3,386	4,852	14,005	11,641	25,647	362	1,535	(D)
Florida.....	42	9	650	1,930	530	1,068	1,334	3,950	4,715	8,665	64	416	1,756
Kentucky.....	9	3	191	538	155	264	373	971	1,259	2,230	47	419	(D)
Tennessee.....	23	7	1,015	3,417	812	1,739	2,034	5,028	7,289	12,317	102	1,103	4,494
Louisiana.....	23	4	286	707	245	459	490	1,189	1,411	2,600	(D)	255	(D)
Oklahoma.....	22	2	114	314	90	127	155	516	813	1,330	1	135	475
Texas.....	109	9	1,770	5,294	1,417	2,882	3,834	11,530	12,025	23,556	315	750	3,771
Mountain.....	39	7	411	1,478	325	642	971	2,956	3,695	6,651	78	396	1,525
Idaho.....	3	...	8	14	6	13	11	35	35	70	(D)	(D)	(D)
Colorado.....	10	5	213	822	165	336	508	1,683	2,179	3,863	25	141	(D)
New Mexico.....	4	...	38	132	27	56	81	219	200	420	(D)	34	133
Arizona.....	12	1	99	334	84	154	250	670	900	1,571	6	116	(D)
Utah.....	6	1	43	149	32	67	98	301	332	634	38	(D)	(D)
Pacific.....	143	31	3,207	13,292	2,511	4,825	9,327	25,932	30,233	56,165	544	3,330	17,022
California.....	124	27	2,969	12,355	2,316	4,465	8,657	24,161	27,568	51,730	(D)	3,121	15,616
Household furniture, n.e.c. (S.I.C. 2519); total.....	69	19	1,285	4,437	1,056	2,074	3,316	7,815	7,760	15,576	2,161	1,653	7,738
New England.....	5	1	54	186	50	102	163	287	331	618	2	797	3,580
Middle Atlantic.....	19	6	350	997	260	524	698	1,562	1,232	2,794	159		
North Central.....	9	5	437	1,648	375	743	1,305	2,956	3,760	6,716	(D)	657	3,194
South.....	17	3	143	360	124	243	283	510	431	942	(D)	199	964
Florida.....	10	1	70	196	61	114	164	309	283	593	194		
Pacific.....	19	4	299	1,244	246	461	866	2,499	2,006	4,506	27	199	964
California.....	19	4	299	1,244	246	461	866	2,499	2,006	4,506	27		

Note: Detailed figures may not add to the totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>General statistics for some producing States are not shown separately in the table (See INTRODUCTION "Confidentiality of Data for Individual Companies"). Such States are shown below with the number of establishments in each State for 1954 and, in parentheses, the number of employees or the employment-size range for that State for 1954:

S.I.C. 2511, Wood Furniture, not Upholstered: West North Central—Minnesota, 30 (500-999); Iowa, 17 (500-999); North Dakota, 2 (20-99); South Dakota, 3 (20-99); Kansas, 4 (20-99); South Atlantic—Delaware, 1 (1-19); District of Columbia, 2 (1-19); Mountain—Montana, 5 (1-19); Idaho, 2 (1-19); Wyoming, 2 (1-19); Colorado, 23 (20-99); New Mexico, 6 (20-99); Nevada, 1 (1-19).

S.I.C. 2512, Upholstered Household Furniture: New England—Vermont, 5 (1-19); Rhode Island, 3 (20-99); West North Central—Nebraska, 11 (250-499); Kansas, 4 (20-99); Mountain—Idaho, 2 (1-19); Wyoming, 1 (1-19); Arizona, 3 (20-99); Nevada, 1 (1-19).

S.I.C. 2514, Metal Household Furniture: New England—New Hampshire, 1 (20-99); Massachusetts, 31 (500-999); Rhode Island, 2 (1-19); Connecticut, 10 (250-499); West North Central—Minnesota, 1 (1-19); Iowa, 2 (1-19); Nebraska, 1 (1-19); South Atlantic—Maryland, 14 (500-999); West Virginia, 1 (1-19); North Carolina, 10 (100-249); Georgia, 10 (500-999); East South Central—Alabama, 9 (100-249); Mississippi, 1 (100-249); West South Central—Arkansas, 2 (100-249); Louisiana, 2 (20-99); Texas, 16 (250-499); Mountain—Idaho, 1 (1-19); Colorado, 1 (1-19); New Mexico, 1 (1-19); Arizona, 2 (1-19); Pacific—Washington, 5 (100-249); Oregon, 1 (1-19).

S.I.C. 2515, Mattresses and Bed-springs: New England—New Hampshire, 3 (20-99); Vermont, 2 (1-19); Middle Atlantic—New York, 172 (2,500-4,999); Pennsylvania, 55 (1,000-2,499); North Central—Indiana, 20 (250-499); Illinois, 59 (3,564); Michigan, 36 (500-999); North Dakota, 1 (1-19); South Dakota, 2 (1-19); District of Columbia, 5 (100-249); West Virginia, 8 (100-249); Alabama, 19 (250-499); Mississippi, 6 (20-99); Arkansas, 12 (20-99); Mountain—Montana, 2 (1-19); Nevada, 2 (1-19); Pacific—Washington, 11 (100-249); Oregon, 8 (20-99).

S.I.C. 2519, Household Furniture, n.e.c.: New England—New Hampshire, 1 (1-19); Massachusetts, 3 (20-99); Connecticut, 1 (1-19); Middle Atlantic—New York, 18 (250-499); Pennsylvania, 1 (1-19); North Central—Indiana, 2 (1-19); Illinois, 5 (250-499); Michigan, 1 (1-19); Iowa, 1 (100-249); South Atlantic—Maryland, 1 (1-19); North Carolina, 2 (20-99); Georgia, 1 (1-19); Mississippi, 1 (1-19); Louisiana, 1 (20-99); Texas, 1 (1-19).

## HOUSEHOLD FURNITURE

25A-7

Table 3.—DETAILED STATISTICS FOR THE UNITED STATES: 1954

(For explanation of line captions see Introduction)

Item	Wood furniture, not upholstered (S.I.C. 2511) all estab- lishments	Upholstered wood furniture (S.I.C. 2512) all estab- lishments	Metal household furniture (S.I.C. 2514)	
			All estab- lishments	Estab- lishments with 90% or more primary prod- ucts special- ization
Primary product specialization ratio <sup>1</sup> .....	94	94	87	xxx
Coverage ratio <sup>2</sup> .....	93	85	83	xxx
Number of establishments, total.....	2,785	1,780	641	514
With 1-19 employees.....	1,827	1,135	380	323
With 20-99 employees.....	640	520	196	155
With 100 employees and over.....	318	125	65	36
All employees:				
Number (average for year).....	124,898	56,022	29,629	19,049
Payroll.....\$1,000..	388,409	193,596	110,933	69,582
Production workers:				
Number (average for year).....	109,618	48,119	24,345	15,785
Man-hours.....1,000..	222,063	93,276	47,083	30,158
Wages.....\$1,000..	303,249	146,990	80,199	50,042
Value added by manufacture.....do..	592,714	313,034	190,816	128,239
Cost of materials, etc.....do..	520,550	319,780	211,758	142,728
Value of shipments.....do..	1,113,264	632,813	402,575	270,968
Value added by resales.....do..	8,881	1,551	1,374	429
Cost of products bought and resold.....do..	48,423	6,268	8,532	3,414
Sales of products bought and resold.....do..	57,304	7,819	9,907	3,843
Total inventories, beginning of year.....do..	200,424	71,254	62,481	37,718
Total inventories, end of year.....do..	194,105	71,523	59,279	38,427
Capital expenditures, new.....do..	17,161	6,934	8,720	6,416
Number of employees for selected months:				
March.....	125,511	55,375	30,248	19,336
May.....	120,355	53,793	29,674	18,943
August.....	123,320	55,703	28,487	18,256
November.....	130,407	59,218	30,106	19,663
Cost of materials, fuel, electricity and contract work, total.....\$1,000..	520,550	319,780	211,758	142,728
Materials, parts, containers, and supplies consumed.....do..	505,970	315,668	205,029	137,985
Fuels consumed, total.....do..	3,820	1,081	1,555	987
Bituminous coal and anthracite:				
Quantity.....1,000 short tons..	294	50	62	(NA)
Value.....\$1,000..	2,578	512	475	(NA)
Coke:				
Quantity.....1,000 short tons..	2	( <sup>3</sup> )	( <sup>3</sup> )	(NA)
Value.....\$1,000..	35	4	2	(NA)
Fuel oil:				
Quantity.....1,000 barrels..	170	69	118	(NA)
Value.....\$1,000..	700	292	478	(NA)
Gas:				
Quantity.....million cubic feet..	982	453	1,042	(NA)
Value.....\$1,000..	288	151	458	(NA)
Other fuels:				
Value.....do..	219	122	142	(NA)
Electric energy:				
Purchased:				
Quantity.....million kwh..	469	116	126	81
Cost.....\$1,000..	7,389	1,895	2,195	1,468
Generated.....million kwh..	67	4	( <sup>5</sup> )	( <sup>5</sup> )
Sold:				
Quantity.....million kwh..	1	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )
Value.....\$1,000..	23	( <sup>4</sup> )	1	1
Cost of contract work.....do..	3,371	1,136	2,979	2,288
Manufacturers' inventories:				
Beginning of year, total.....do..	200,424	71,254	62,481	37,718
Finished products.....do..	60,885	11,784	19,396	13,271
Work-in-process.....do..	53,013	13,306	11,631	7,048
Materials, supplies, fuel, etc.....do..	86,525	46,163	31,453	17,398
End of year, total.....do..	194,105	71,523	59,279	38,427
Finished products.....do..	62,424	12,626	20,016	13,606
Work-in-process.....do..	51,970	12,716	11,799	7,598
Materials, supplies, fuel, etc.....do..	79,709	46,180	27,463	17,222
Expenditures for plant and equipment, total.....do..	18,392	7,379	9,280	6,797
Capital expenditures, new.....do..	17,161	6,934	8,720	6,416
New structures and additions to plant.....do..	5,363	3,049	2,938	2,157
New machinery and equipment.....do..	11,798	3,885	5,782	4,259
Expenditures for used plant and equipment.....do..	1,231	( <sup>6</sup> )	( <sup>6</sup> )	( <sup>6</sup> )
Horsepower rating of power equipment at end of 1954:				
Horsepower of prime movers and electric motors driven by purchased energy, total.....1,000 hp..	492	79	78	50
Engines, etc., driving electric generators.....do..	58	4	1	1
Engines, etc., not driving electric generators.....do..	11	2	2	2
Electric motors driven by purchased energy.....do..	423	73	75	47
Electric motors driven by energy generated at the establishment.....do..	60	2	( <sup>7</sup> )	( <sup>7</sup> )

See footnotes at end of table.



Table 3.—DETAILED STATISTICS FOR THE UNITED STATES: 1954—Continued

Item	Mattresses and bed springs (S.I.C. 2515)		Household furniture, n.e.c. (S.I.C. 2519)	
	All estab- lishments	Establish- ment with 90% or more primary prod- ucts special- ization	All estab- lishments	Establish- ments with 90% or more primary prod- ucts special- ization
Primary product specialization ratio <sup>1</sup> .....	77	xxx	86	xxx
Coverage ratio <sup>2</sup> .....	91	xxx	59	xxx
Number of establishments, total.....	1,195	928	69	54
With 1-19 employees.....	929	794	50	43
With 20-99 employees.....	219	124	17	10
With 100 employees and over.....	47	10	2	1
All employees:				
Number (average for year).....	32,096	11,083	1,285	799
Payroll.....\$1,000..	121,516	38,974	4,437	2,632
Production workers:				
Number (average for year).....	25,122	8,632	1,056	666
Man-hours.....1,000..	49,325	16,965	2,074	1,338
Wages.....\$1,000..	84,588	25,590	3,316	2,218
Value added by manufacture.....do...	216,362	74,306	7,815	4,443
Cost of materials, etc.....do...	248,153	101,973	7,760	4,851
Value of shipments.....do...	464,516	176,279	15,576	9,295
Value added by resales.....do...	2,245	1,106	40	21
Cost of products bought and resold.....do...	11,537	4,532	196	51
Sales of products bought and resold.....do...	13,782	5,638	236	73
Total inventories, beginning of year.....do...	63,323	21,516	1,910	1,004
Total inventories, end of year.....do...	62,578	21,622	1,819	950
Capital expenditures, new.....do...	5,306	2,470	2,161	(D)
Number of employees for selected months:				
March.....	31,541	10,806	1,383	859
May.....	31,123	10,783	1,218	771
August.....	32,889	11,455	1,238	784
November.....	32,832	11,288	1,299	781
Cost of materials, fuel, electricity and contract work, total.....\$1,000..	248,153	101,973	7,760	4,851
Materials, parts, containers, and supplies consumed.....do...	245,324	101,011	7,546	4,695
Fuels consumed, total.....do...	916	239	38	29
Bituminous coal and anthracite:				
Quantity.....1,000 short tons..	45	(NA)	( <sup>3</sup> )	(NA)
Value.....\$1,000..	384	(NA)	7	(NA)
Coke:				
Quantity.....1,000 short tons..	...	...	...	...
Value.....\$1,000..	...	...	...	...
Fuel oil:				
Quantity.....1,000 barrels..	78	(NA)	7	(NA)
Value.....\$1,000..	302	(NA)	26	(NA)
Gas:				
Quantity.....million cubic feet..	493	(NA)	1	(NA)
Value.....\$1,000..	167	(NA)	( <sup>4</sup> )	(NA)
Other fuels:				
Value.....do...	63	(NA)	5	(NA)
Electric energy:				
Purchased:				
Quantity.....million kwh..	79	21	4	3
Cost.....\$1,000..	1,388	438	74	54
Generated.....million kwh..	( <sup>5</sup> )	( <sup>5</sup> )	...	...
Sold:				
Quantity.....million kwh..	...	...	...	...
Value.....\$1,000..	...	...	...	...
Cost of contract work.....do...	525	285	102	73
Manufacturers' inventories:				
Beginning of year, total.....do...	63,323	21,516	1,910	1,004
Finished products.....do...	16,435	5,464	587	( <sup>6</sup> )
Work-in-process.....do...	9,395	2,543	( <sup>6</sup> )	( <sup>6</sup> )
Materials, supplies, fuel, etc.....do...	37,472	13,509	975	( <sup>6</sup> )
End of year, total.....do...	62,578	21,622	1,819	950
Finished products.....do...	15,600	5,140	558	( <sup>6</sup> )
Work-in-process.....do...	9,798	2,958	( <sup>6</sup> )	( <sup>6</sup> )
Materials, supplies, fuel, etc.....do...	37,180	13,523	844	( <sup>6</sup> )
Expenditures for plant and equipment, total.....do...	5,842	2,853	2,185	(D)
Capital expenditures, new.....do...	5,306	2,470	2,161	(D)
New structures and additions to plant.....do...	1,469	734	2,045	(D)
New machinery and equipment.....do...	3,837	1,736	( <sup>6</sup> )	(D)
Expenditures for used plant and equipment.....do...	( <sup>6</sup> )	( <sup>6</sup> )	( <sup>6</sup> )	( <sup>6</sup> )
Horsepower rating of power equipment at end of 1954:				
Horsepower of prime movers and electric motors driven by purchased energy, total.....1,000 hp..	49	11	2	1
Engines, etc., driving electric generators.....do...	( <sup>7</sup> )	( <sup>7</sup> )	( <sup>7</sup> )	( <sup>7</sup> )
Engines, etc., not driving electric generators.....do...	( <sup>7</sup> )	( <sup>7</sup> )	( <sup>7</sup> )	( <sup>7</sup> )
Electric motors driven by purchased energy.....do...	49	11	2	1
Electric motors driven by energy generated at the establishment.....do...	( <sup>7</sup> )	( <sup>7</sup> )	...	...

Note: Detailed figures may not add to the totals because of independent rounding. xxx Not applicable. NA Not available. <sup>1</sup>The specialization ratio compares the given industry's shipments of its primary products to its total shipments of all products. (The primary products are listed in Tables 5B and 6A; the first 4-digits of the product code represent the industry code to which the product is primary.) Columns containing totals for establishments with 90% or more primary product specialization are shown only for those industries having a primary product specialization of less than 90%. <sup>2</sup>The coverage ratio measures the extent to which the total shipments of products primary to the given industry are shipped by establishments classified in that industry. <sup>3</sup>Less than 500 tons. <sup>4</sup>Less than \$500. <sup>5</sup>Less than 500 thousand kwh. <sup>6</sup>Less than \$500 thousand. <sup>7</sup>Less than 500 hp.

## HOUSEHOLD FURNITURE

25A-9

Table 4.--SELECTED STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR THE UNITED STATES: 1954

(Value figures in thousands of dollars. For explanation of line captions see Introduction. Data which cannot be shown without disclosing information for individual companies have been combined with figures for other size classes. A (D) appears in the column where the figure has been omitted and the combined figure is underlined and shown in the size-class to the left)

Ind. code	Industry and item	Total, all estab- lish- ments	Establishments with an average of--									
			1-4 em- ployees	5-9 em- ployees	10-19 em- ployees	20-49 em- ployees	50-99 em- ployees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
2511	Wood furniture, not uphlstd.: Number of establishments.. Number of employees..... Value added by manufacture	2,785 124,898 592,714	1,030 2,411 11,914	428 3,055 15,666	369 5,242 24,763	406 12,744 60,296	234 16,383 79,378	217 35,160 165,942	71 25,452 123,530	22 14,173 67,510	8 10,276 43,711	... ... ...
2512	Uphlstd. household furniture: Number of establishments.. Number of employees..... Value added by manufacture	1,780 56,022 313,034	523 1,334 7,504	310 2,205 12,249	302 4,328 22,311	342 10,763 56,724	178 12,420 68,773	99 14,443 81,464	22 10,526 <u>64,005</u>	4 (D) (D)	... ... ...	... ... ...
2514	Metal household furniture: Number of establishments.. Number of employees..... Value added by manufacture	641 29,629 190,816	200 517 3,033	96 699 3,736	84 1,187 7,172	127 3,971 22,557	69 4,792 29,202	42 6,401 36,920	12 4,046 28,346	10 <u>8,013</u> <u>59,847</u>	1 (D) (D)	... ... ...
2515	Mattresses and bedsprings: Number of establishments.. Number of employees..... Value added by manufacture	1,195 32,096 216,362	535 1,332 6,749	209 1,483 8,188	185 2,619 14,971	147 4,664 31,033	72 4,843 35,176	29 4,431 29,760	11 4,014 28,573	4 <u>8,708</u> <u>61,908</u>	2 (D) (D)	1 (D) (D)
2519	Household furniture, nec: Number of establishments.. Number of employees..... Value added by manufacture	69 1,285 7,815	30 79 396	7 47 240	13 187 914	14 471 2,726	3 499 <u>3,537</u>	2 (D) (D)	... ... ...	... ... ...	... ... ...	... ... ...

Note: Detailed figures may not equal totals because of independent rounding.

## MANUFACTURES--INDUSTRY STATISTICS

Table 5A.--INDUSTRY-PRODUCT ANALYSIS--SUMMARY OF INDUSTRY AND PRIMARY PRODUCT SHIPMENTS, SPECIALIZATION RATIOS AND COVERAGE RATIOS FOR THE UNITED STATES: 1954 AND 1947

Industry code	Industry and census year	Value of shipments					Value of primary products shipped			
		Total	Primary products	Secondary products	Miscellaneous receipts	Primary product specialization ratio <sup>1</sup>	Total (made in all industries)	Made in this industry	Made in other industries	Coverage ratio <sup>2</sup>
		(\$1,000) (A)	(\$1,000) (B)	(\$1,000) (C)	(\$1,000) (D)	Col. B Col. B+C (Percent) (E)	(\$1,000) (F)	(\$1,000) (G)	(\$1,000) (H)	Col. G Col. F (Percent) (I)
2511	Wood furniture, not upholstered.....1954..	1,113,264	1,036,111	71,773	5,380	94	1,112,656	1,036,111	76,545	93
	1947..	898,674	839,449	54,376	4,849	94	892,276	839,449	52,827	94
2512	Upholstered house furniture..1954..	632,813	589,895	38,727	4,191	94	690,284	589,895	100,389	85
	1947..	381,053	347,575	31,445	2,033	92	419,126	347,575	71,551	83
2514	Metal house furniture.....1954..	402,575	347,018	51,029	4,528	87	416,172	347,018	69,154	83
	1947..	194,851	159,588	33,562	1,701	83	218,223	159,588	58,635	73
2515	Mattresses and bedsprings....1954..	464,516	350,908	107,507	6,101	77	385,981	350,908	35,073	91
	1947..	331,004	250,698	77,236	3,070	76	269,605	250,698	18,907	93
2519	Household furniture, n.e.c...1954..	15,576	12,925	2,118	533	86	21,726	12,925	8,801	59
	1947..	14,030	11,620	2,401	9	83	16,324	11,620	4,704	71

<sup>1</sup>The specialization ratio compares the given industry's shipments of its primary products to its total shipments of all products. (The primary products are listed in Tables 5B and 6A; the first 4-digits of the product code represent the industry code to which the product is primary.) <sup>2</sup>The coverage ratio measures the extent to which the total shipments of products primary to the given industry are shipped by establishments classified in that industry.



## HOUSEHOLD FURNITURE

25A-11

Table 5B.—INDUSTRY-PRODUCT ANALYSIS--SHIPMENTS BY PRODUCT CLASS AND INDUSTRY, FOR THE UNITED STATES: 1954

(In thousands of dollars. Each column shows for the industry listed in the column heading, the value of shipments divided between household furniture, other products, and miscellaneous receipts. Each figure represents the amount of the product class shown at the left shipped by the industry listed at the top of the column. The first four digits of the product class codes at the left represent the codes of the industries to which they are primary. All other product classes in a column represent products secondary to the specified industry)

Prod. class code	Class of products and miscellaneous receipts	Wood furniture, not upholstered (S.I.C. 2511)	Upholstered household furniture (S.I.C. 2512)	Metal household furniture (S.I.C. 2514)	Mattresses and bedsprings (S.I.C. 2515)	Household furniture, n.e.c. (S.I.C. 2519)	Millwork plants (S.I.C. 2431)	Other industries	All industries
	Total shipments of the industry.....	1,113,264	632,813	402,575	464,516	15,576	xxx	xxx	xxx
	Household furniture.....	1,071,304	624,564	355,189	432,564	14,133	22,533	106,532	2,626,819
25111	Radio, phonograph, and TV wood cabinets....	100,084	(D)	(D)	...	...	( <sup>1</sup> )	2,378	102,824
25112	Other wood living room furniture, except upholstered.....	198,126	6,198	(D)	( <sup>1</sup> )	(D)	468	6,861	212,056
25113	Wood dining room and dinette furniture....	138,712	3,724	2,025	( <sup>1</sup> )	( <sup>1</sup> )	...	670	145,159
25114	Kitchen furniture, household, wood.....	104,180	123	( <sup>1</sup> )	...	...	20,479	1,540	126,373
25115	Bedroom wood furniture, except upholstered.	373,265	7,134	523	3,379	...	484	5,950	390,735
25116	Infants' and children's wood furniture.....	45,601	(D)	353	2,268	( <sup>1</sup> )	...	4,002	52,388
25117	Porch and lawn wood furniture, except upholstered.....	11,478	...	(D)	(D)	...	( <sup>1</sup> )	1,493	13,485
25118	Unpainted wood furniture.....	21,943	153	...	( <sup>1</sup> )	...	( <sup>1</sup> )	660	22,780
25119	Other wood household furniture, except upholstered.....	7,113	(D)	( <sup>1</sup> )	...	...	(D)	783	8,242
25110	Wood furniture, not upholstered, not specified by kind.....	35,609	390	( <sup>1</sup> )	( <sup>1</sup> )	( <sup>1</sup> )	788	1,717	38,614
25120	Upholstered wood house furniture, not specified by kind.....	782	18,637	( <sup>1</sup> )	(D)	...	...	304	20,020
25121	Upholstered wood house furniture.....	22,670	471,825	1,254	9,510	( <sup>1</sup> )	...	2,690	507,969
25122	Convertible sofas.....	1,311	41,582	...	30,516	...	...	245	73,654
25123	Jackknife sofa beds.....	2,939	19,971	...	11,877	...	...	118	34,905
25124	Studio couches.....	(D)	8,784	( <sup>1</sup> )	9,696	...	...	...	18,749
25125	Chair beds.....	277	1,445	...	2,018	...	...	...	3,740
25126	Wood frames for upholstered furniture.....	777	27,651	( <sup>1</sup> )	2,143	...	( <sup>1</sup> )	588	31,247
25141	Metal dining, dinette, and breakfast furniture.....	643	(D)	121,200	( <sup>1</sup> )	( <sup>1</sup> )	...	4,899	127,028
25142	Metal kitchen furniture, including cabinets.....	( <sup>1</sup> )	( <sup>1</sup> )	87,786	...	...	( <sup>1</sup> )	26,970	114,813
25143	Metal porch, lawn and other outdoor furniture.....	(D)	(D)	46,865	1,502	( <sup>1</sup> )	( <sup>1</sup> )	5,352	54,940
25144	Metal beds and cots.....	(D)	(D)	4,867	6,516	...	...	1,945	13,757
25145	Other metal household furniture.....	1,268	(D)	75,032	1,574	(D)	...	14,159	93,170
25140	Metal house furniture, not specified by kind.....	332	162	11,268	( <sup>1</sup> )	...	...	694	12,464
25151	Mattresses and pads.....	1,582	9,900	1,093	227,050	...	...	9,929	249,554
25152	Bedsprings.....	(D)	4,340	1,938	111,868	( <sup>1</sup> )	...	4,878	124,021
25150	Mattresses and bedsprings, not specified by kind.....	( <sup>1</sup> )	(D)	...	11,990	...	...	248	12,406
25191	Plastic radio, phonograph, and TV cabinets.....	( <sup>1</sup> )	...	...	...	4,407	...	<sup>2</sup> 6,620	11,081
25192	Reed, rattan, willow, and wicker furniture.	(D)	(D)	...	( <sup>1</sup> )	5,983	...	622	6,971
25193	Other household furniture.....	668	( <sup>1</sup> )	233	( <sup>1</sup> )	2,535	...	217	3,674
	Other products.....	36,580	4,058	42,858	25,851	910	xxx	xxx	xxx
22930	Paddings and upholstery filling.....	( <sup>1</sup> )	( <sup>1</sup> )	...	8,304	...	xxx	xxx	xxx
2431-	Millwork products.....	5,877	( <sup>1</sup> )	(D)	( <sup>1</sup> )	( <sup>1</sup> )	xxx	xxx	xxx
25310	Public building furniture.....	2,226	( <sup>1</sup> )	3,481	(D)	...	xxx	xxx	xxx
25320	Professional furniture, except beauty and barber shop.....	428	(D)	1,660	4,256	...	xxx	xxx	xxx
25412	Cases, cabinets, counters, and other fixtures.....	3,062	( <sup>1</sup> )	901	(D)	...	xxx	xxx	xxx
32312	Mirrors.....	3,317	( <sup>1</sup> )	(D)	( <sup>1</sup> )	...	xxx	xxx	xxx
34891	Wire springs.....	(D)	156	(D)	3,892	( <sup>1</sup> )	xxx	xxx	xxx
	All other products.....	<sup>3</sup> 21,668	3,694	36,816	9,334	833	xxx	xxx	xxx
	Miscellaneous receipts.....	5,380	4,191	4,528	6,101	533	xxx	xxx	xxx
	Contract and commission work.....	1,907	2,708	3,048	4,078	485	xxx	xxx	xxx
	Repair work.....	1,020	899	121	1,300	( <sup>1</sup> )	xxx	xxx	xxx
	Other.....	2,453	584	1,359	723	( <sup>1</sup> )	xxx	xxx	xxx

D Withheld to avoid disclosing figures for individual companies. xxx Not applicable.

<sup>1</sup>Less than \$100 thousand.

<sup>2</sup>Plants classified in Industry 3971, Plastics Products, N.E.C., accounted for all but a negligible portion of this amount.

<sup>3</sup>Of this figure, 42 percent consists of the following product classes: 24992, Wood furniture parts and vehicle stock; 2432-, Plywood products; 24994, Other wood products; and 39430, Baby carriages and children's vehicles.

## MANUFACTURES--INDUSTRY STATISTICS

Table 6A.--QUANTITY AND VALUE OF PRODUCTS SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, FOR THE UNITED STATES: 1954 AND 1947

Product code	Product	Total shipments including interplant transfers			
		1954		1947	
		Quantity (1,000 units)	Value (\$1,000)	Quantity (1,000 units)	Value (\$1,000)
2511---	Wood household furniture, not upholstered, total.....	xxx	1,112,656	xxx	892,276
2511111	Radio, phonograph, television, radio-phonograph, and radio-phonograph- television cabinets.....	5,486	102,824	(NA)	102,267
25112	Other wood living room, library, sunroom, and hall furniture, including sewing machine cabinets.....	xxx	212,055	xxx	166,869
2511211	Sewing machine cabinets.....	1,458	29,160	(NA)	25,880
2511219	Other cabinets (records, music, sewing, smoking, etc.).....	(NA)	6,592		
2511221	Settees, love seats and benches.....	(NA)	2,278	(NA)	17,653
2511231	Chairs and rockers.....	1,159	12,334	(NA)	10,137
2511241	Tables (all types).....	12,066	120,666	(NA)	74,226
2511251	Desks.....	396	14,726	(NA)	16,236
2511261	Secretaries and breakfronts:				
	Quantity reported.....	36	3,480	(NA)	8,002
	Quantity not reported.....	xxx	1,426		
2511271	Credenzas, bookcases, and bookshelves.....	xxx	7,645	xxx	8,382
2511281	Card tables and chairs (folding and non-folding).....	xxx	6,793	xxx	7,978
2511298	Other non-upholstered living room furniture.....	xxx	6,956	xxx	8,375
25113	Wood dining, junior dining, and dinette furniture.....	xxx	145,159	xxx	112,568
2511311	Tables, 30 x 40 inches and greater.....	1,014	45,667	(NA)	(2)
2511331	Chairs.....	5,037	47,857		
2511351	Buffets and servers.....	369	25,150	(NA)	(2)
2511371	China and corner cabinets.....	303	20,894		
2511398	Other dining, junior dining, and dinette furniture.....	xxx	5,591	xxx	
25114	Wood kitchen furniture, including breakfast sets.....	xxx	3126,373	xxx	354,186
2511411	Complete kitchen cabinets, (complete cabinet assembled or unassembled, to be used as individual units or to be combined with other cabinets to form a built-in-unit).....	xxx	3113,033	xxx	339,327
2511431	Breakfast sets.....	107	6,188	(NA)	11,728
2511451	Chairs and stools (not sold with a set).....	640	2,317		
2511471	Tables (not sold with a set) smaller than 30 x 40 inches.....	513	4,231		732
2511498	Other kitchen furniture.....	xxx	604	...	...
25115	Wood bedroom furniture, including headboards.....	xxx	390,735	xxx	4345,028
2511511	Beds (excluding headboards and headboard beds, bunk beds, cribs, cradles and youth beds).....	2,603	63,320	(NA)	4322,609
2511513	Headboards and headboard beds.....	1,313	28,994		
2511515	Bunk beds (excluding mattresses and detachable springs).....	420	7,133	(NA)	19,670
2511521	Dressers, vanities, and dressing tables.....	2,439	134,804		
2511531	Chests of drawers, wardrobes, chiffoniers, chiffrobes etc.....	2,599	92,591	(NA)	921
2511541	Cedar chests.....	535	15,342		
2511551	Chairs, rockers, benches, and chaise lounges (excluding upholstered).....	194	2,522		
2511598	Other bedroom furniture (including night tables, but excluding items listed under "Bedding products").....	xxx	46,029	xxx	(4)
25116	Infants' and children's wood furniture.....	xxx	52,388	xxx	49,672
2511611	Cribs, including springs sold as part of the crib.....	1,051	17,691	61,211	620,404
2511621	Baby baths.....	356	3,434	870	6,787
2511631	High chairs, and combination feeding chair-tables.....	583	6,701	1,146	7,738
2511641	Play yards.....	594	5,078	438	3,476
2511651	Nursery seats and chairs.....	725	2,178	941	2,603
2511698	Other infants' and children's furniture (chairs, tables, wardrobes, cradles, youth beds, chests of drawers, etc.).....	xxx	17,306	xxx	68,664
25117	Porch, lawn, and other outdoor wood furniture.....	xxx	13,485	xxx	8,026
	Porch and lawn furniture (including beach furniture and steamer chairs made of wood or wood and canvas:				
2511711	Chairs, rockers, benches, and chaise lounges.....	xxx	9,255	xxx	5,471
2511715	Gliiders, swings, and hammocks.....	xxx	4,230	xxx	2,555
2511719	Other porch, lawn and outdoor furniture.....				
25118	Unpainted wood furniture.....	xxx	22,780	xxx	15,399
	Furniture in the white (unpainted):				
2511811	Bookcases:				
	Quantity reported.....	155	1,173	(NA)	1,536
	Quantity not reported.....	xxx	324		
2511831	Chairs.....	1,080	3,251	(NA)	2,759
2511835	Chests of drawers.....	743	9,154	(NA)	6,338
2511839	Other furniture-in-the-white (tables, beds, vanities, dressing tables, desks, corner cabinets, etc.).....	xxx	8,878	xxx	4,766
2511998	Other non-upholstered wood household furniture.....	xxx	8,242	xxx	2,054
2511000	Wood household furniture, not specified by kind.....	xxx	38,614	xxx	36,207

See footnotes at end of table.

## HOUSEHOLD FURNITURE

25A-13

Table 6A.--QUANTITY AND VALUE OF PRODUCTS SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, FOR THE UNITED STATES: 1954 AND 1947--Continued

Product code	Product	Total shipments including interplants transfers			
		1954		1947	
		Quantity (1,000 units)	Value (\$1,000)	Quantity (1,000 units)	Value (\$1,000)
2512---	Wood household furniture, upholstered, total.....	xxx	690,284	xxx	<sup>8</sup> 419,126
25121	Upholstered wood household furniture, except dual-purpose furniture.....	xxx	507,969	xxx	<sup>8</sup> 331,283
2512111	Living room, library, sunroom and hall furniture: Sofas, davenports (excluding dual-purpose), settees, love seats, and sectional sofa pieces seating two or more persons:				
	Quantity reported.....	2,695	228,916	(NA)	<sup>9</sup> 316,950
	Quantity not reported.....	xxx	33,905		
2512131	Chairs, (except reclining), rockers, and sectional sofa pieces seating one person:				
	Quantity reported.....	5,991	188,059	(NA)	8,182
	Quantity not reported.....	xxx	17,953		
2512151	Reclining chairs.....	373	19,519		
2512171	Bedroom chairs, rockers, benches, and chaise lounges.....	500	10,442	(NA)	8,182
2512198	Other upholstered wood household furniture <sup>10</sup> .....	xxx	9,175	xxx	6,151
2512211	Convertible sofas <sup>11</sup> .....	794	73,654	1,210	59,323
2512311	Jackknife sofa beds <sup>11</sup> .....	660	34,905		
2512411	Studio couches:				
	Quantity reported.....	323	15,958	1,210	59,323
	Quantity not reported.....	xxx	2,791		
2512511	Chair beds:				
	Quantity reported.....	89	3,073	xxx	14,280
	Quantity not reported.....	xxx	667		
2512611	Furniture frames for household furniture.....	xxx	31,247	xxx	14,280
2512000	Household upholstered furniture, not specified by kind <sup>7</sup> .....	xxx	20,020	xxx	14,240
2514---	Metal household furniture, total.....	xxx	416,172	xxx	218,223
25141	Metal household dining, dinette and breakfast furniture.....	xxx	127,028	xxx	59,837
2514111	Tubular metal:				
	Sets (table and 4 chairs).....	1,423	72,178	(NA)	57,243
2514115	Tables (not sold with a set).....	682	16,227	(NA)	( <sup>12</sup> )
2514117	Chairs (not sold with a set).....	3,728	19,319	(NA)	( <sup>12</sup> )
2514131	Other metal:				
	Sets (table and 4 chairs).....	53	2,570	(NA)	2,594
2514135	Tables (not sold with a set).....	xxx	932	(NA)	( <sup>12</sup> )
2514137	Chairs (not sold with a set).....	58	427	(NA)	( <sup>12</sup> )
2514198	Other non-upholstered metal dining, dinette, and breakfast furniture.....	xxx	15,375	xxx	( <sup>12</sup> )
25142	Metal kitchen furniture (tables, stools, base and wall cabinets, etc.--ex- cluding breakfast sets).....	xxx	114,813	xxx	85,615
2514211	Kitchen furniture (excluding breakfast furniture reported in "Dining, dinette, and breakfast furniture"):				
	Cabinets, such as base, top and base, wall utility, etc.....	xxx	101,454	xxx	77,013
2514251	Chairs and stools.....	2,506	12,440	(NA)	8,602
2514271	Tables.....	95	919	(NA)	8,602
25143	Metal porch, lawn, and other outdoor furniture.....	xxx	54,940	xxx	17,699
2514311	Porch and lawn furniture (including beach furniture and steamer chairs):				
	Chairs, rockers, benches, chaise lounges, and settees.....	xxx	35,226	xxx	9,787
2514351	Gliders, swings and hammocks.....	xxx	9,188	xxx	6,713
2514398	Other metal porch and lawn furniture.....	xxx	10,526	xxx	1,199
25144	Metal beds and cots (excluding mattresses and detachable bedsprings).....	1,719	13,757	2,008	17,458
25414431	Folding cots and rollable cots, including army cots.....	1,029	8,234	879	7,783
25414435	Other metal beds.....	13,690	135,523	1,129	9,675
25145	Other metal household furniture.....	xxx	93,170	xxx	37,614
2514511	Upholstered living room and sunroom furniture (excluding dual-purpose units listed under "wood household furniture, upholstered").....	xxx	9,947	xxx	( <sup>14</sup> )
2514519	Other upholstered metal furniture.....	xxx	8,869	xxx	( <sup>14</sup> )
2514571	Miscellaneous metal household furniture:				
	Card tables and chairs.....	xxx	19,401	xxx	7,800
2514575	Medicine wall cabinets:				
	Quantity reported.....	1,750	18,432	(NA)	29,814
	Quantity not reported.....	xxx	2,670	(NA)	
2514598	Other metal household furniture, n.e.c.....	xxx	133,851	xxx	..
2514000	Metal household furniture, not specified by kind <sup>7</sup> .....	xxx	12,464	...	..

See footnotes at end of table.



Table 6A.--QUANTITY AND VALUE OF PRODUCTS SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, FOR THE UNITED STATES: 1954 AND 1947--Continued

Product code	Product	Total shipments including interplant transfers			
		1954		1947	
		Quantity (1,000 units)	Value (\$1,000)	Quantity (1,000 units)	Value (\$1,000)
2515---	Mattresses and bedsprings, total.....	xxx	385,981	xxx	269,605
25151	Mattresses, including pads for cribs and infants' baskets.....	xxx	249,554	xxx	177,403
	Innerspring mattresses, including those with rubber or latex topper pads and those sold as parts of Hollywood beds:				
2515111	For cribs.....	964	8,188	6,414	141,573
2515115	For other beds.....	7,953	182,933		
2515131	Rubber or latex core mattresses.....	621	25,349	34	1,054
	Other mattresses and pads:				
2515141	For cribs and infants' baskets.....	xxx	11,665	xxx	xxx
	Quantity reported.....	2,062	9,686	1,627	10,930
	Quantity not reported.....	xxx	1,969		
2515145	For other beds.....	xxx	19,255	xxx	xxx
	Quantity reported.....	1,232	17,269	1,861	22,761
	Quantity not reported.....	xxx	1,986		
2515198	Other mattresses, including pads for cribs and infants' baskets.....	xxx	2,164	xxx	1,085
25152	Bedsprings.....	xxx	124,021	xxx	76,991
2515211	Box springs, including those sold with or without legs and as parts of Hollywood beds.....	xxx	95,206	xxx	xxx
	Quantity reported.....	4,460	90,911	2,210	44,334
	Quantity not reported.....	xxx	4,295		
2515231	Coil springs.....	xxx	20,428	xxx	xxx
	Quantity reported.....	2,157	17,079	(NA)	27,634
	Quantity not reported.....	xxx	3,349		
2515251	Flat springs.....	xxx	6,369	xxx	xxx
	Quantity reported.....	1,039	5,097	466	3,044
	Quantity not reported.....	xxx	1,272		
2515271	Hospital bedsprings, gatch, and other types.....	xxx	2,018	xxx	1,979
2515000	Mattress and bedspring products, not specified by kind <sup>7</sup> .....	xxx	12,406	xxx	15,211
2519---	Household furniture, not elsewhere classified, total.....	xxx	21,726	xxx	<sup>12</sup> 16,324
2519111	Plastic radio, phonograph, television, and radio-phonograph-television cabinets.....	5,007	11,081	(NA)	(NA)
25192	Bassinets and other reed, rattan, etc., furniture.....	xxx	6,971	xxx	<sup>5</sup> 8,123
2519211	Bassinets.....	253	1,277	(NA)	2,194
2519231	Reed, rattan, willow, wicker and cane furniture, except bassinets (including porch, lawn, and sunroom furniture, etc.).....	xxx	5,465	xxx	5,929
2519200	Bassinets and other reed, rattan, etc. furniture, not specified by kind...	xxx	229	xxx	xxx
25193	Other household furniture, not elsewhere classified.....	xxx	3,674	xxx	8,201
2519311	Other plastic furniture.....	xxx	2,033	xxx	<sup>13</sup> 8,201
2519398	Other household furniture.....	xxx	1,291		
2519300	Other household furniture, not elsewhere classified, not specified by kind	xxx	350		

xxx Not applicable.

NA Not available.

<sup>1</sup>Includes suites (sofa, davenport, and one or more chairs) and sofas and davenports, except upholstered.<sup>2</sup>Shipments of wood dining room furniture in 1947 were reported as follows: Dining room suites, \$68,001,000; dining room sets (tables and chairs), \$21,995,000; tables sold separately, \$9,784,000; chairs sold separately, \$5,365,000; buffets and servers sold separately, \$4,809,000; and china and corner cabinets sold separately, \$2,614,000.<sup>3</sup>Direct comparisons of 1954-1947 data are not possible since shipments reported for this product line in 1947 were restricted to assembled cabinets and other cabinets (not to be built-in). In 1947, shipments of unassembled cabinets and cabinets to be combined with other units to form a built-in unit were treated as products primary to the Millwork Industry, code 2431411.<sup>4</sup>Shipments of wood bedroom furniture in 1947 were reported as follows: Bedroom suites, \$281,890,000; beds (excluding headboards and headboards beds), \$14,517,000; dressers, vanities and dressing tables, \$10,338,000; and chests of drawers, wardrobes, etc., \$15,864,000.<sup>5</sup>Shipments of headboards and headboard beds in 1947 were included with "Other bedding products, not specified by kind" (Industry 2515).<sup>6</sup>Shipments of infants' cradles and youth beds in 1947 were included with infants' cribs (code 2511611).<sup>7</sup>Largely accounted for by shipments of small establishments that were not asked to report a breakdown of their total shipments.<sup>8</sup>Includes a small amount of metal household upholstered furniture.<sup>9</sup>Represents shipments of suites valued at \$186,441,000, sofas, davenports, etc., sold as separate pieces valued at \$49,006,000, and chairs sold separately valued at \$81,503,000. In 1954, manufacturers were asked to report these items on the respective product lines, without regard to whether the items were actually sold in sets or as separate pieces.<sup>10</sup>Represents dining room chairs.<sup>11</sup>The data shown for these products are subject to some reporting discrepancies, inasmuch as evidence appears to indicate that the distinction between "convertible sofas" and "jackknife sofa beds" was not consistently drawn by manufacturers reporting shipments of these items.<sup>12</sup>Tubular metal and other metal table and chairs (not sold with a set) are included with metal kitchen furniture (product codes 2514251 and 71 - chairs, stools and tables).<sup>13</sup>Includes an indeterminate amount of metal bed frames.<sup>14</sup>Metal household upholstered furniture in 1947 was included with upholstered wood household furniture in Industry 2512.<sup>15</sup>Reed and rattan furniture was reported separately in 1947, as Industry 2513 (see text for Industry 2519).

## HOUSEHOLD FURNITURE

25A-15

Table 6B.--VALUE OF PRODUCT CLASSES AND SELECTED PRODUCTS SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, BY DIVISIONS AND STATES FOR 1954, AND UNITED STATES TOTALS FOR EARLIER YEARS

(In thousands of dollars. Statistics are shown for selected product classes and products which are economically significant and production of which is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (Table 2) and they are not miscellaneous or "not specified by type" classes. For each product class and selected product, States are listed only if the value of shipments is more than \$1 million and the figure does not disclose individual company information. Additional States which had shipments of more than \$1 million of the individual product classes or products are listed in footnote 1.)

Product class, region, and State <sup>1</sup>	Value of shipments	Product class, region, and State <sup>1</sup>	Value of shipments	Product class, region, and State <sup>1</sup>	Value of shipments
<u>Radio, phonograph, and TV wood cabinets (25111)</u>		<u>Other wood living room, furniture, exc. upholstered (25112)—Continued</u>		<u>Kitchen furniture, household, wood (25114)—Continued</u>	
1954 United States, total.....	102,824	West South Central.....	9,244	East North Central.....	25,268
1953 United States, total.....	<sup>2</sup> 142,286	Arkansas.....	6,068	Ohio.....	1,310
1952 United States, total.....	<sup>2</sup> 133,236	Texas.....	1,962	Indiana.....	10,593
1951 United States, total.....	<sup>2</sup> 143,990	Pacific.....	12,319	Illinois.....	6,852
1950 United States, total.....	<sup>2</sup> 231,713	Washington.....	1,268	Michigan.....	2,167
1947 United States, total.....	102,267	California.....	10,229	Wisconsin.....	4,345
1954		West North Central.....		West North Central.....	10,500
New England.....	2,261	1954		Minnesota.....	2,612
Connecticut.....	1,994	New England.....	13,683	Iowa.....	5,719
Middle Atlantic.....	28,820	New Hampshire.....	1,785	Missouri.....	1,483
Pennsylvania.....	16,660	Vermont.....	2,133	South Atlantic.....	18,259
East North Central.....	54,785	Massachusetts.....	9,047	Maryland.....	1,657
Indiana.....	29,985	Middle Atlantic.....	14,517	Virginia.....	3,217
Illinois.....	16,777	New York.....	7,564	North Carolina.....	3,587
Michigan.....	5,685	Pennsylvania.....	5,997	South Carolina.....	4,310
Wisconsin.....	2,289	East North Central.....	28,925	Georgia.....	1,364
South Atlantic.....	8,052	Ohio.....	2,657	Florida.....	4,051
North Carolina.....	4,129	Indiana.....	10,064	East South Central.....	4,483
East South Central.....	6,712	Illinois.....	2,416	Kentucky.....	3,070
Pacific.....	1,521	Michigan.....	8,332	West South Central.....	4,635
California.....	1,479	Wisconsin.....	5,455	Texas.....	3,789
<u>Other wood living room, furniture, exc. upholstered (25112)</u>		West North Central.....	2,358	Mountain.....	1,230
1954 United States, total.....	212,056	South Atlantic.....	66,039	Pacific.....	24,334
1953 United States, total.....	219,061	Virginia.....	13,278	Washington.....	5,528
1952 United States, total.....	224,082	North Carolina.....	47,012	California.....	18,200
1951 United States, total.....	204,739	Georgia.....	1,264	<u>Bedroom wood furniture, except upholstered (25115)</u>	
1950 United States, total.....	200,244	East South Central.....	7,343	1954 United States, total.....	390,735
1947 United States, total.....	166,869	Kentucky.....	3,463	1953 United States, total.....	438,715
1954		West South Central.....	3,393	1952 United States, total.....	414,098
New England.....	14,038	Arkansas.....	2,565	1951 United States, total.....	379,160
New Hampshire.....	2,563	Pacific.....	9,129	1950 United States, total.....	388,018
Massachusetts.....	8,677	California.....	5,984	1947 United States, total.....	345,028
Connecticut.....	1,366	<u>Kitchen furniture, household, wood (25114)</u>		1954	
Middle Atlantic.....	31,521	1954 United States, total.....	<sup>4</sup> 126,373	New England.....	16,634
New York.....	19,388	1951 United States, total.....	( <sup>3</sup> )	New Hampshire.....	2,921
New Jersey.....	6,191	1950 United States, total.....	( <sup>3</sup> )	Vermont.....	4,806
Pennsylvania.....	5,942	1947 United States, total.....	<sup>4</sup> 54,186	Massachusetts.....	7,494
East North Central.....	86,703	1954		Middle Atlantic.....	45,241
Ohio.....	8,472	New England.....	4,452	New York.....	25,278
Indiana.....	29,231	Massachusetts.....	2,369	New Jersey.....	4,882
Illinois.....	25,533	Connecticut.....	1,252	Pennsylvania.....	15,081
Michigan.....	20,396	Middle Atlantic.....	33,196	East North Central.....	35,906
Wisconsin.....	3,070	New York.....	12,977	Ohio.....	1,641
West North Central.....	2,394	New Jersey.....	5,266	Indiana.....	11,220
Missouri.....	1,447	Pennsylvania.....	14,953	Illinois.....	8,402
South Atlantic.....	35,430			Michigan.....	8,343
Maryland.....	1,894			Wisconsin.....	6,298
Virginia.....	10,517			South Atlantic.....	198,048
North Carolina.....	15,000			Virginia.....	78,326
South Carolina.....	2,285			North Carolina.....	102,949
Georgia.....	4,734			South Carolina.....	7,402
East South Central.....	19,329			Georgia.....	2,946
Kentucky.....	4,322			Florida.....	4,863
Tennessee.....	6,295			East South Central.....	39,996
				Kentucky.....	11,197
				Tennessee.....	20,854
				Alabama.....	3,240
				Mississippi.....	4,704
				West South Central.....	23,433
				Arkansas.....	13,321
				Louisiana.....	2,366
				Oklahoma.....	1,952
				Texas.....	5,793

See footnotes at end of table.

## MANUFACTURES--INDUSTRY STATISTICS

Table 6B.--VALUE OF PRODUCT CLASSES AND SELECTED PRODUCTS SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, BY DIVISIONS AND STATES FOR 1954, AND UNITED STATES TOTALS FOR EARLIER YEARS--Continued

Product class, region, and State <sup>1</sup>	Value of shipments	Product class, region, and State <sup>1</sup>	Value of shipments	Product class, region, and State <sup>1</sup>	Value of shipments
<u>Bedroom wood furniture, except upholstered (25115)--Continued</u>		<u>Upholstered wood house furniture (25121)--Continued</u>		<u>Jackknife sofa beds<sup>2</sup> (25123)--Continued</u>	
Pacific.....	28,546	East South Central.....	43,298	West South Central.....	4,492
California.....	18,212	Kentucky.....	5,083	Texas.....	3,027
Infants' and children's wood furniture (25116).....		Tennessee.....	27,938	Pacific.....	7,139
1954 United States, total.....	52,388	Alabama.....	1,883	California.....	5,580
1953 United States, total.....	48,915	Mississippi.....	8,393		
1952 United States, total.....	51,782	West South Central.....	31,955	<u>Metal dining, dinette, and breakfast furniture (25141)</u>	
1951 United States, total.....	49,070	Arkansas.....	7,250	1954 United States, total.....	127,028
1950 United States, total.....	48,423	Louisiana.....	3,302	1953 United States, total.....	130,386
1947 United States, total.....	49,672	Oklahoma.....	1,216	1952 United States, total.....	130,421
1954.....		Texas.....	20,185	1951 United States, total.....	117,023
New England.....	10,507	Mountain.....	4,330	1950 United States, total.....	128,003
Massachusetts.....	8,408	Colorado.....	2,360	1947 United States, total.....	59,837
Middle Atlantic.....	9,376	Utah.....	1,789	1954.....	
New York.....	6,967	Pacific.....	58,349	New England.....	5,991
Pennsylvania.....	2,248	Washington.....	3,967	Massachusetts.....	3,911
East North Central.....	20,569	Oregon.....	4,138	Middle Atlantic.....	21,769
Ohio.....	1,313	California.....	50,244	New York.....	14,085
Indiana.....	1,578	<u>Convertible sofas<sup>2</sup> (25122)</u>		Pennsylvania.....	6,829
Illinois.....	8,514	1954 United States, total.....	73,654	East North Central.....	49,810
Michigan.....	1,711	1953 United States, total.....	80,709	Ohio.....	3,163
Wisconsin.....	7,453	1954.....		Indiana.....	6,832
South Atlantic.....	2,688	New England.....	4,354	Illinois.....	35,470
North Carolina.....	2,214	Massachusetts.....	3,955	Michigan.....	2,558
East South Central.....	1,494	Middle Atlantic.....	20,872	Wisconsin.....	1,786
West South Central.....	2,137	New York.....	8,946	West North Central.....	9,144
Pacific.....	4,627	New Jersey.....	9,339	South Atlantic.....	14,374
<u>Upholstered wood house furniture (25121)</u>		Pennsylvania.....	2,586	Maryland.....	2,500
1954 United States, total.....	507,969	East North Central.....	17,382	North Carolina.....	2,751
1953 United States, total.....	530,483	Indiana.....	1,262	Georgia.....	8,056
1952 United States, total.....	510,999	Illinois.....	8,664	East South Central.....	5,992
1951 United States, total.....	481,090	Michigan.....	1,268	Tennessee.....	5,125
1950 United States, total.....	482,623	West North Central.....	4,974	West South Central.....	3,841
1947 United States, total.....	331,283	Missouri.....	1,240	Texas.....	3,640
1954.....		South Atlantic.....	8,985	Pacific.....	16,009
New England.....	36,193	Maryland.....	1,323	California.....	16,009
Massachusetts.....	28,662	North Carolina.....	1,598	<u>Metal kitchen furniture, including cabinets (25142)</u>	
Connecticut.....	5,481	Georgia.....	4,878	1954 United States, total.....	114,813
Middle Atlantic.....	94,193	East South Central.....	3,254	1953 United States, total.....	99,418
New York.....	59,492	Tennessee.....	2,567	1952 United States, total.....	97,063
New Jersey.....	10,959	West South Central.....	3,497	1951 United States, total.....	110,749
Pennsylvania.....	23,742	Texas.....	2,787	1950 United States, total.....	113,484
East North Central.....	126,166	Pacific.....	10,091	1947 United States, total.....	85,615
Ohio.....	28,693	California.....	8,808	1954.....	
Indiana.....	29,014	<u>Jackknife sofa beds<sup>2</sup> (25123)</u>		New England.....	1,135
Illinois.....	38,028	1954 United States, total.....	34,905	Middle Atlantic.....	34,735
Michigan.....	20,917	1953 United States, total.....	32,904	New York.....	9,714
Wisconsin.....	9,512	1954.....		New Jersey.....	4,037
West North Central.....	23,381	New England.....	1,869	Pennsylvania.....	20,983
Minnesota.....	5,701	Massachusetts.....	1,237	East North Central.....	68,252
Iowa.....	7,699	Middle Atlantic.....	3,188	Ohio.....	28,584
Missouri.....	5,116	New Jersey.....	1,767	Indiana.....	21,061
Nebraska.....	3,956	East North Central.....	5,909	Illinois.....	17,995
South Atlantic.....	90,093	Indiana.....	1,144	West North Central.....	1,028
Maryland.....	2,856	Illinois.....	1,848	Missouri.....	1,028
Virginia.....	11,801	West North Central.....	2,163		
West Virginia.....	1,710	South Atlantic.....	6,592		
North Carolina.....	60,645	North Carolina.....	2,956		
Georgia.....	9,133	Georgia.....	2,690		
Florida.....	3,464	East South Central.....	3,280		
		Tennessee.....	2,929		

See footnotes at end of table.



## HOUSEHOLD FURNITURE

25A-17

Table 68.--VALUE OF PRODUCT CLASSES AND SELECTED PRODUCTS SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, BY DIVISIONS AND STATES FOR 1954, AND UNITED STATES TOTALS FOR EARLIER YEARS--Continued

Product class, region, and State <sup>1</sup>	Value of shipments	Product class, region, and State <sup>1</sup>	Value of shipments	Product class, region, and State <sup>1</sup>	Value of shipments
<u>Metal kitchen furniture, including cabinets (25142)--Continued</u>		<u>Mattresses and pads (25151)--Continued</u>		<u>Bedsprings (25152)--Continued</u>	
South.....	5,822	Middle Atlantic.....	57,246	South Atlantic.....	14,323
South Atlantic.....	2,102	New York.....	25,635	Maryland.....	2,085
Maryland.....	1,619	New Jersey.....	19,336	North Carolina.....	3,348
Pacific.....	3,790	Pennsylvania.....	12,274	Georgia.....	5,110
<u>Metal porch, lawn, and other outdoor furniture (25143)</u>		East North Central.....	66,745	Florida.....	2,426
1954 United States, total.....	54,940	Ohio.....	17,167	East South Central.....	4,818
1953 United States, total.....	34,934	Indiana.....	5,050	Kentucky.....	1,974
1947 United States, total.....	17,699	Illinois.....	19,827	Tennessee.....	1,973
1954		Michigan.....	5,360	West South Central.....	5,747
New England.....	6,110	Wisconsin.....	19,341	Texas.....	4,180
Massachusetts.....	6,110	West North Central.....	18,331	Mountain.....	2,015
Middle Atlantic.....	18,622	Minnesota.....	4,265	Iowa.....	1,430
New York.....	8,786	Iowa.....	1,430	Missouri.....	6,335
Pennsylvania.....	8,964	Kansas.....	5,023	Colorado.....	1,158
East North Central.....	16,287	South Atlantic.....	26,179	Pacific.....	19,664
Ohio.....	5,368	Maryland.....	3,464	California.....	18,237
Indiana.....	7,197	Virginia.....	1,806		
Michigan.....	1,981	North Carolina.....	4,621	<u>SELECTED INDIVIDUAL PRODUCTS</u>	
South Atlantic.....	7,890	Georgia.....	9,178	(The value of the products shown below are included in product classes above which also include other individual products making up the product class)	
Georgia.....	1,341	Florida.....	4,401	<u>Wood tables - living room, library, sunroom and hall (2511241)</u>	
Florida.....	5,777	East South Central.....	8,756	1954 United States, total.....	120,666
East South Central.....	1,824	Kentucky.....	2,021	1954	
West South Central.....	1,427	Tennessee.....	5,066	New England.....	4,529
Pacific.....	2,539	Alabama.....	1,282	Massachusetts.....	3,008
<u>Other metal household furniture (25145)</u>		West South Central.....	15,910	Middle Atlantic.....	13,822
1954 United States, total.....	93,170	Louisiana.....	1,442	New York.....	6,416
1953 United States, total.....	72,213	Texas.....	12,864	New Jersey.....	3,142
1947 United States, total.....	37,614	Mountain.....	4,636	Pennsylvania.....	4,264
1954		Colorado.....	2,417	East North Central.....	50,561
New England.....	6,219	Arizona.....	1,060	Ohio.....	7,884
Massachusetts.....	4,703	Pacific.....	28,615	Indiana.....	9,344
Middle Atlantic.....	21,254	Washington.....	3,055	Illinois.....	16,053
New York.....	11,981	California.....	24,633	Michigan.....	15,176
New Jersey.....	1,069	<u>Bedsprings (25152)</u>		Wisconsin.....	2,103
Pennsylvania.....	8,204	1954 United States, total.....	124,021	South Atlantic.....	23,009
East North Central.....	50,277	1953 United States, total.....	120,476	Virginia.....	9,137
Indiana.....	14,167	1952 United States, total.....	110,359	North Carolina.....	9,774
Illinois.....	12,957	1951 United States, total.....	99,023	Georgia.....	2,101
Michigan.....	12,520	1950 United States, total.....	103,664	East South Central.....	8,347
West North Central.....	1,291	1947 United States, total.....	76,991	Kentucky.....	1,977
South Atlantic.....	1,943	1954		Tennessee.....	4,414
Maryland.....	1,157	New England.....	11,956	West South Central.....	3,465
East South Central.....	5,448	Massachusetts.....	8,570	Pacific.....	7,606
Pacific.....	6,040	Connecticut.....	2,986	California.....	6,546
<u>Mattresses and pads (25151)</u>		Middle Atlantic.....	28,585	Tubular metal dining, dinette, and breakfast sets (2514111)	
1954 United States, total.....	249,554	New York.....	9,820	1954 United States, total.....	72,178
1953 United States, total.....	217,672	New Jersey.....	12,547	1954	
1952 United States, total.....	216,560	Pennsylvania.....	6,218	New England.....	4,259
1951 United States, total.....	221,745	East North Central.....	30,028	Middle Atlantic.....	4,362
1950 United States, total.....	196,945	Ohio.....	8,795	New York.....	2,532
1947 United States, total.....	177,403	Indiana.....	1,684		
1954		Illinois.....	14,265		
New England.....	22,012	Michigan.....	2,961		
Massachusetts.....	13,352	Wisconsin.....	2,322		
Rhode Island.....	4,479	West North Central.....	6,805		
Connecticut.....	3,456	Minnesota.....	2,226		
		Missouri.....	3,876		

See footnotes at end of table.

## MANUFACTURES--INDUSTRY STATISTICS

Table 6B.--VALUE OF PRODUCT CLASSES AND SELECTED PRODUCTS SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, BY DIVISIONS AND STATES FOR 1954, AND UNITED STATES TOTALS FOR EARLIER YEARS--Continued

Product class, region, and State <sup>1</sup>	Value of shipments	Product class, region, and State <sup>1</sup>	Value of shipments	Product class, region, and State <sup>1</sup>	Value of shipments
<u>Tubular metal dining, dinette, and breakfast sets (2514111)--Continued</u>		<u>Innerspring mattresses for beds other than cribs (2515115)--Continued</u>		<u>Boxsprings (2515211)--Continued</u>	
North Central.....	42,356	Middle Atlantic.....	36,067	Middle Atlantic.....	22,775
Ohio.....	1,981	New York.....	13,332	New York.....	6,699
Indiana.....	3,343	New Jersey.....	14,207	New Jersey.....	11,174
Illinois.....	26,580	Pennsylvania.....	8,528	Pennsylvania.....	4,901
South.....	19,844	East North Central.....	50,388	East North Central.....	20,363
South Atlantic.....	13,016	Ohio.....	11,514	Ohio.....	8,146
Maryland.....	2,078	Illinois.....	14,297	Indiana.....	1,160
Pacific.....	1,354	Michigan.....	4,217	Illinois.....	7,893
California.....	1,354	West North Central.....	14,093	West North Central.....	5,230
<u>Metal kitchen cabinets (all types) (2514211)</u>		Minnesota.....	3,606	Minnesota.....	1,638
1954 United States, total.....	101,454	Missouri.....	4,090	Missouri.....	2,914
1954		Nebraska.....	1,074	South Atlantic.....	11,273
Northeast.....	32,619	South Atlantic.....	17,055	North Carolina.....	2,097
New York.....	8,360	Maryland.....	2,531	Georgia.....	3,926
Pennsylvania.....	19,548	North Carolina.....	2,556	Florida.....	2,164
East North Central.....	56,962	Georgia.....	7,738	East South Central.....	2,986
Ohio.....	27,762	Florida.....	1,806	Tennessee.....	1,551
Illinois.....	16,833	East South Central.....	6,194	West South Central.....	3,793
South.....	5,030	Kentucky.....	1,365	Texas.....	2,967
South Atlantic.....	1,642	Tennessee.....	3,755	Mountain.....	1,919
West.....	3,159	West South Central.....	11,818	Colorado.....	1,133
<u>Innerspring mattresses for beds other than cribs (2515115)</u>		Texas.....	10,109	Pacific.....	15,285
1954 United States, total.....	182,933	Mountain.....	3,290	California.....	14,180
1954		Colorado.....	2,049		
New England.....	11,381	Pacific.....	18,985		
Massachusetts.....	7,948	Washington.....	2,178		
Connecticut.....	2,491	California.....	16,100		
		<u>Boxsprings (2515211)</u>			
		1954 United States, total.....	95,206		
		1954			
		New England.....	7,492		
		Massachusetts.....	5,629		
		Connecticut.....	1,513		

Note: The figures shown for 1950 to 1953 are sample estimates obtained from the Annual Survey of Manufactures for those years. Since the estimates are based on a sample they are subject to sampling variability, that is, they are not the same as figures which would have been obtained if complete censuses had been taken for those years. Measures of the sampling variability (standard errors) of the estimated total value of shipments of each product class are shown in the Annual Survey of Manufactures publications. Also shown are the standard errors of the relative change in shipments between some consecutive Annual Survey years which are the more significant measures when the series is studied for trend.

<sup>1</sup>For the specified product classes and products, shipments of over \$1 million were reported for the States listed but the exact figures are withheld to avoid disclosure of individual company figures: 25111, Mississippi, Kentucky, Virginia, and New York; 25112, Oklahoma, Mississippi, and Alabama; 25113, Oregon, Washington, Alabama, Tennessee, West Virginia, Maryland, and Missouri; 25115, Oregon and Washington; 25116, California, Texas, and New Hampshire; 25121, New Hampshire; 25122, Kansas and Wisconsin; 25123, Wisconsin; 25141, Missouri and Connecticut; 25142, California; 25145, Kentucky, Missouri, Wisconsin, Ohio, Connecticut, and California; 25151, Nebraska; 2511241, Oklahoma, Mississippi, Maryland, and Arkansas; 2514111, Texas, Tennessee, Georgia, Missouri, Michigan, Pennsylvania, Connecticut, Vermont, and North Carolina; 2514211, California, Mississippi, Maryland, Indiana, and New Jersey; 2515115, Nebraska, Iowa, Wisconsin, and Indiana; 2515211, Michigan and Maryland.

<sup>2</sup>The source of these figures is Facts for Industry M54A, Household Furniture and Bedding Products (sample survey). These estimates are subject to sampling errors as shown in the reports for the individual years; sampling errors are less than 10 percent for each product class except infants' and children's wood furniture, in which case the estimating error is 15 percent.

<sup>3</sup>In 1950 and 1951, the value of wood breakfast sets was included in the values shown for wood dining, junior dining, and dinette furniture (product class 25113).

<sup>4</sup>Direct comparisons of 1954-1947 data are not possible since shipments reported for this product line in 1947 were restricted to assembled cabinets and other cabinets (not to be built-in). In 1947, shipments of unassembled cabinets and cabinets to be combined with other units to form a built-in unit were treated as products primary to the Millwork Industry, code 2431411.

<sup>5</sup>The data shown for these product classes are subject to some reporting discrepancies inasmuch as evidence appears to indicate that the distinction between "convertible sofas" and "jackknife sofa beds" was not consistently drawn by manufacturers reporting shipments of these items. For years prior to 1953, only, the combined total for product classes 25122, 25123, 25124 (studio couches), and 25125 (chair beds) is available; in 1947 this combined total was \$59,323 thousand.

## HOUSEHOLD FURNITURE

25A-19

Table 7.—MATERIALS CONSUMED BY KIND: 1954 AND 1947

Code	Description of materials	Unit of measure	1954		1947	
			Quantity	Cost (\$1,000)	Quantity	Value (\$1,000)
	INDUSTRY 2511—WOOD FURNITURE, NOT UPHOLSTERED					
	Materials, parts, containers, and supplies, total.....		xxx	505,970	xxx	387,266
241111	Logs and bolts.....		xxx	3,771		
	Rough lumber:					
242111	Hardwood.....	Thousand board feet.	870,431	95,868	<sup>1</sup> 1,060,570	
242115	Softwood.....	...do.....	118,955	10,806	<sup>1</sup> 183,547	
	Dressed lumber:					
242121	Hardwood.....	...do.....	77,209	10,297	( <sup>1</sup> )	
242125	Softwood.....	...do.....	85,679	9,641	( <sup>1</sup> )	
	Veneer:					
242231	Hardwood.....	Thousand square feet (surf.meas.)	992,191	32,409		(NA)
242235	Softwood.....		xxx	2,193		
	Plywood:					
243211	Hardwood:				(NA)	
243213	Veneer core.....		xxx	36,537		
243215	Lumber core.....	...do.....	44,298	14,367		
	Softwood.....		(NA)	6,901		
242131	Hardwood furniture dimension, rough or semifabricated.....	Thousand board feet.	75,808	18,466		
251211	Furniture parts, wood (including frames).....		xxx	16,251		
	Carbon steel mill shapes and forms (including wrought iron):					
331212	Sheet and strip.....	Short ton....	18,388	2,585	21,636	2,543
331219	All other carbon steel mill shapes and forms.....	...do.....	9,701	2,174		
331225	Alloy steel mill shapes and forms (except stainless).....	...do.....	336	148	11,642	1,226
331231	Stainless steel mill shapes and forms.....	...do.....	214	229		
335211	Aluminum and aluminum-base alloy mill shapes and forms.....	Thousand pounds.	1,714	744		
348911	Springs and spring units.....		xxx	2,816		
229311	Paddings and fillings except latex foam.....		xxx	2,812	(NA)	(NA)
223011	Upholstery fabrics (woven).....	Thousand square yards	3,927	5,492		
970000	All other materials and components, parts, containers, and supplies consumed.		xxx	178,963		
971000	Materials etc., not specified by kind.....		xxx	52,500	xxx	(NA)
	INDUSTRY 2512—UPHOLSTERED HOUSEHOLD FURNITURE					
	Materials, parts, containers, and supplies, total.....		xxx	315,668	xxx	178,737
	Rough lumber:					
242111	Hardwood.....	Thousand board feet.	135,947	12,619	<sup>1</sup> 193,821	
242115	Softwood.....	...do.....	20,610	1,528	<sup>1</sup> 16,753	
	Dressed lumber:					
242121	Hardwood.....	...do.....	65,097	6,256	( <sup>1</sup> )	
242125	Softwood.....		(NA)	1,126	( <sup>1</sup> )	(NA)
243211	Plywood, total.....		xxx	1,149		
243213						
243215						
242131	Hardwood furniture dimension, rough or semifabricated.....	Thousand board feet.	26,337	4,610	(NA)	
251211	Furniture parts, wood (including frames).....		xxx	23,373	(NA)	
	Carbon steel mill shapes and forms (including wrought iron):					
331212	Sheet and strip.....	Short ton....	5,251	899		
331219	All other carbon steel mill shapes and forms including tubing.....	...do.....	5,530	1,093	8,053	1,266
331225	Alloy steel mill shapes and forms, (except stainless).....	...do.....	557	225		
348911	Springs and spring units.....		xxx	27,093		
229311	Paddings and fillings except latex foam.....		xxx	29,886	(NA)	(NA)
223011	Upholstery fabrics (woven).....	Thousand square yards	53,064	91,486		
970000	All other materials and components, parts, containers, and supplies consumed.		xxx	77,077		
971000	Materials etc., not specified by kind.....		xxx	37,248	xxx	(NA)

See footnotes at end of table.



## MANUFACTURES—INDUSTRY STATISTICS

Table 7.—MATERIALS CONSUMED, BY KIND: 1954 AND 1947—Continued

Code	Description of materials	Unit of measure	1954		1947	
			Quantity	Cost (\$1,000)	Quantity	Value (\$1,000)
	INDUSTRY 2514—METAL HOUSEHOLD FURNITURE					
	Materials, parts, containers, and supplies, total.....		xxx	205,029	xxx	90,477
242111 242115 242121 242125	Rough and dressed lumber.....	Thousand board feet.	10,385	1,146	10,967	(NA)
243211	Plywood: Hardwood, veneer core.....	Thousand square feet (surf.meas.)	18,568	3,581	(NA)	(NA)
243215	Softwood.....	Thousand square feet (3/8" basis)	11,729	1,921	(NA)	(NA)
251211	Furniture parts, wood (including frames).....		xxx	4,304	(NA)	(NA)
331212 331219	Carbon steel mill shapes and forms (including wrought iron): Sheet and strip..... All other carbon steel mill shapes and forms including tubing.....	Short ton.... ...do.....	239,979 68,128	29,824 12,180	198,039 51,266	18,353 7,302
331225 331231 335211	Alloy steel mill shapes and forms, (except stainless)..... Stainless steel mill shapes and forms..... Aluminum and aluminum-base alloy mill shapes and forms.....	Short ton.... ...do..... Thousands pounds.	33,734 973 17,836	6,898 967 10,375	(NA)	(NA)
348911 229311	Springs and spring units..... Paddings and fillings except latex foam.....	Short ton.... Thousand pounds.	2,701 14,577	1,117 3,089		
223011	Upholstery fabrics (woven).....	Thousand square yards	2,834	3,419		
970000 971000	All other materials and components, parts, containers, and supplies consumed. Materials etc., not specified by kind.....		xxx xxx	101,418 24,790		
	INDUSTRY 2515—MATTRESSES AND BEDSPRINGS					
	Materials, parts, containers, and supplies, total.....		xxx	245,324	xxx	176,890
242111 242115	Rough lumber: Hardwood..... Softwood.....	Thousand board feet. ...do.....	4,649 6,826	681 669	( <sup>2</sup> ) ( <sup>2</sup> )	(NA)
242121 242125	Dressed lumber: Hardwood..... Softwood.....	...do..... ...do.....	15,057 21,462	1,590 2,330	<sup>2</sup> 15,388 <sup>2</sup> 6,249	(NA)
251211	Furniture parts, wood (including frames).....		xxx	5,271	(NA)	(NA)
331212 331219 331225 331231	Carbon steel mill shapes and forms (including wrought iron): Sheet and strip..... All other carbon steel mill shapes and forms including tubing..... Alloy steel mill shapes and forms.....	Short ton.... ...do..... ...do.....	41,733 86,131 212	5,887 11,770 158	44,623 92,103	4,569 8,684
348911 229311	Springs and spring units..... Paddings and fillings except latex foam.....	Thousand pounds.	xxx 238,049	34,370 31,344	(NA)	(NA)
223011 970000 971000	Upholstery fabrics (woven)..... All other materials and components, parts, containers, and supplies consumed. Materials etc., not specified by kind.....		xxx xxx xxx	23,325 94,055 33,874	xxx	(NA)

xxx Not applicable.

NA Not available.

<sup>1</sup>Includes dressed lumber; for 1947, separate data were not requested for rough and dressed lumber.<sup>2</sup>Includes rough lumber; for 1947, separate data were not requested for rough and dressed lumber.

## HOUSEHOLD FURNITURE

25 A-21

Table 8.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY INDUSTRY SPECIALIZATION AND PRIMARY PRODUCT CLASS SPECIALIZATION, FOR THE UNITED STATES: 1954

(This table presents selected statistics for establishments classified according to their degree of specialization in products primary to the industry. The establishments are classified in two ways: (1) by industry specialization—the degree of specialization in all primary products of the industry; and (2) by product-class specialization—the degree of specialization in the largest product class of the establishment. The degree of "industry specialization" for an establishment represents the ratio of its primary product shipments to its total product shipments, primary and secondary. The degree of "product-class specialization" for an establishment represents the ratio of its largest product class shipments to its total product shipments, primary and secondary. Data are not shown for some industries, product classes, and specialization ranges for a variety of reasons, consequently, detailed figures frequently do not add to the totals. See Introduction for detailed explanation)

Ind. or product class No.	Industry or product class by percent of specialization	Establishments, number	All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
2511	WOOD FURNITURE, NOT UPHOLSTERED (entire industry).....	2,785	124,898	388,409	109,618	222,063	303,249	592,714	520,550	1,113,264
	Establishments with:									
	90% or more specialization.....	2,284	98,439	299,076	87,079	176,468	236,810	466,139	419,182	885,322
	75-89% specialization.....	179	12,106	41,616	10,293	20,456	30,851	61,290	44,930	106,221
	50-74% specialization.....	222	11,826	39,466	10,063	20,731	29,292	52,136	44,902	97,038
	All other <sup>1</sup> .....	100	2,526	8,250	2,181	4,407	6,295	13,147	11,535	24,683
25111	Radio, phonograph, and TV wood cabinets:									
	All establishments specializing in product class.	145	13,030	42,389	11,759	22,970	34,772	54,543	49,874	104,417
	Establishments with:									
	90% or more specialization.....	107	10,563	33,568	9,613	18,577	27,802	42,960	39,021	81,981
	75-89% specialization.....	16	863	3,210	747	1,560	2,458	3,177	3,688	6,866
	50-74% specialization.....	16	1,483	5,217	1,304	2,629	4,237	7,851	6,722	14,574
	Less than 50% specialization.....	6	119	394	94	203	273	553	442	995
25112	Other wood living room furniture, exc. upholstered:									
	All establishments specializing in product class.	511	22,579	70,936	19,673	40,012	55,258	106,055	87,651	193,706
	Establishments with:									
	90% or more specialization.....	376	13,357	42,406	11,544	23,345	33,097	65,684	57,176	122,861
	75-89% specialization.....	35	2,844	8,163	2,564	5,311	6,730	10,991	8,358	19,346
	50-74% specialization.....	68	4,592	13,399	4,084	8,164	10,633	19,540	15,092	34,632
	Less than 50% specialization.....	32	1,786	6,968	1,480	3,191	4,796	9,839	7,027	16,867
25113	Wood dining room, and dinette furniture:									
	All establishments specializing in product class.	156	15,279	47,237	13,430	26,860	36,319	69,576	52,659	122,236
	Establishments with:									
	90% or more specialization.....	72	5,797	16,532	5,138	10,080	13,095	26,673	23,078	49,752
	75-89% specialization.....	11	1,380	3,969	1,287	2,635	3,448	6,136	4,345	10,482
	50-74% specialization.....	42	3,778	10,354	3,324	6,662	8,069	15,318	12,632	27,950
	Less than 50% specialization.....	31	4,322	16,381	3,680	7,482	11,706	21,448	12,603	34,052
25114	Kitchen furniture, household wood:									
	All establishments specializing in product class.	510	10,844	38,595	9,174	18,984	29,059	59,253	53,938	113,193
	Establishments with:									
	90% or more specialization.....	355	7,450	26,684	6,325	13,255	19,912	42,156	38,635	80,793
	75-89% specialization.....	42	1,438	5,090	1,201	2,324	3,871	8,070	7,458	15,529
	50-74% specialization.....	87	1,611	5,663	1,344	2,796	4,326	7,514	6,536	14,051
	Less than 50% specialization.....	26	344	1,157	302	608	949	1,512	1,307	2,820
25115	Bedroom wood furniture, except upholstered:									
	All establishments specializing in product class.	405	48,466	145,042	42,675	88,071	112,689	233,767	208,512	442,280
	Establishments with:									
	90% or more specialization.....	242	24,863	70,870	22,019	45,518	56,056	115,325	113,857	229,183
	75-89% specialization.....	35	6,215	19,496	5,325	11,204	14,383	29,942	26,846	56,789
	50-74% specialization.....	65	10,496	30,444	9,484	19,292	24,083	50,140	41,973	92,114
	Less than 50% specialization.....	63	6,891	24,230	5,846	12,056	18,166	38,358	25,834	64,193
25116	Infants' and childrens' wood furniture:									
	All establishments specializing in product class.	134	4,941	14,655	4,336	8,358	11,503	23,678	25,094	48,773
	Establishments with:									
	90% or more specialization.....	101	2,864	8,504	2,526	4,963	6,788	14,673	15,382	30,056
	75-89% specialization.....	13	1,465	4,678	1,263	2,289	3,500	6,977	7,927	14,904
	50-74% specialization.....	9	128	238	110	191	192	353	319	673
	Less than 50% specialization.....	11	483	1,233	435	914	1,022	1,675	1,465	3,140
25117	Porch and lawn wood furniture, except upholstered:									
	All establishments specializing in product class.	81	1,462	4,363	1,280	2,464	3,303	6,608	7,348	13,957
	Establishments with:									
	90% or more specialization.....	57	638	1,592	554	1,068	1,240	2,614	3,372	5,986
25118	Unpainted wood furniture:									
	All establishments specializing in product class.	101	2,245	6,679	2,051	4,015	5,672	10,447	10,687	21,134
	Establishments with:									
	90% or more specialization.....	32	1,385	4,964	1,444	2,848	4,279	8,036	8,928	16,964
	75-89% specialization.....	4	95	287	89	177	273	448	519	967
	50-74% specialization.....	10	449	1,167	407	788	900	1,601	1,024	2,625
	Less than 50% specialization.....	5	116	261	110	200	219	361	215	577
25119	Other wood household furniture, except upholstered:									
	All establishments specializing in product class.	39	542	1,507	474	908	1,171	2,573	1,912	4,485
	Establishments with:									
	90% or more specialization.....	28	410	1,125	359	692	861	1,988	1,505	3,494

See footnote at end of table.

## MANUFACTURES--INDUSTRY STATISTICS

Table 8.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY INDUSTRY SPECIALIZATION AND PRIMARY PRODUCT CLASS SPECIALIZATION, FOR THE UNITED STATES: 1954—Continued

Ind. or product class No.	Industry or product class by percent of specialization	Establishments, number	All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
2512	UPHOLSTERED HOUSEHOLD FURNITURE (entire industry).....	1,780	56,022	193,596	48,119	93,276	146,990	313,034	319,780	632,813
	Establishments with:									
	90% or more specialization.....	1,532	45,827	159,122	39,367	76,326	121,520	257,822	265,904	523,726
	75-89% specialization.....	76	3,211	9,926	2,729	5,113	7,656	16,466	15,124	31,591
	50-74% specialization.....	121	5,809	20,228	4,997	9,861	14,550	31,409	31,324	62,733
	All other.....	51	1,174	4,319	1,025	1,974	3,263	7,335	7,427	14,763
25121	Upholstered wood house furniture:									
	All establishments specializing in product class.	1,072	45,522	159,036	39,108	76,035	120,927	257,647	261,607	519,255
	Establishments with:									
	90% or more specialization.....	833	29,574	103,738	25,327	49,709	79,068	165,884	171,667	337,551
	75-89% specialization.....	88	7,165	25,926	6,241	11,518	20,633	45,022	43,069	88,091
	50-74% specialization.....	122	7,054	23,834	6,010	11,828	17,161	38,583	38,653	77,237
	Less than 50% specialization.....	29	1,728	5,537	1,529	2,978	4,064	8,157	8,217	16,375
25122	Convertible sofas:									
	All establishments specializing in product class.	48	2,035	7,242	1,622	3,178	5,076	12,382	16,726	29,108
	Establishments with:									
	90% or more specialization.....	14	207	883	171	326	616	1,572	2,506	4,079
	75-89% specialization.....	6	418	1,702	283	568	1,067	3,189	4,221	7,411
	50-74% specialization.....	15	597	1,874	494	976	1,402	3,285	4,516	7,802
	Less than 50% specialization.....	13	812	2,782	674	1,308	1,991	4,334	5,482	9,816
25123	Jackknife sofa beds:									
	All establishments specializing in product class.	42	1,320	4,450	1,128	2,167	3,338	6,830	8,586	15,416
	Establishments with:									
	90% or more specialization.....	7	189	494	172	352	435	243	368	612
25124	Studio couches:									
	All establishments specializing in product class.	17	224	715	192	355	552	1,150	1,780	2,931
	Establishments with:									
	90% or more specialization.....	4	18	54	15	29	48	165	256	422
25126	Wood frames for upholstered furniture:									
	All establishments specializing in product class.	281	3,598	10,999	3,200	6,196	8,786	16,597	11,703	28,301
	Establishments with:									
	90% or more specialization.....	254	3,208	9,813	2,856	5,553	7,836	14,840	10,223	25,064
2514	METAL HOUSEHOLD FURNITURE (entire industry).....	641	29,629	110,933	24,345	47,083	80,199	190,816	211,758	402,575
	Establishments with:									
	90% or more specialization.....	514	19,049	69,582	15,785	30,158	50,042	128,239	142,728	270,968
	75-89% specialization.....	35	3,109	11,517	2,588	5,221	8,734	19,626	22,468	42,095
	50-74% specialization.....	65	4,403	17,778	3,521	7,074	12,802	26,043	28,822	54,866
	All other <sup>1</sup> .....	27	3,067	12,055	2,450	4,629	8,620	16,906	17,739	34,645
25141	Metal dining, dinette, and breakfast furniture:									
	All establishments specializing in product class.	172	8,433	31,446	6,948	13,535	22,435	56,914	75,176	132,090
	Establishments with:									
	90% or more specialization.....	129	4,897	18,466	3,997	7,781	12,950	34,984	49,694	84,679
	75-89% specialization.....	13	1,953	7,505	1,561	3,046	5,237	12,632	14,269	26,901
	50-74% specialization.....	20	1,241	4,179	1,097	2,166	3,344	7,398	9,366	16,765
	Less than 50% specialization.....	10	342	1,295	291	541	902	1,898	1,846	3,744
25142	Metal kitchen furniture, including cabinets:									
	All establishments specializing in product class.	112	9,388	37,531	7,513	14,194	27,010	59,698	54,150	113,849
	Establishments with:									
	90% or more specialization.....	83	4,275	16,221	3,577	6,432	11,547	26,780	23,039	49,820
	75-89% specialization.....	11	1,063	4,300	817	1,655	2,979	7,170	5,901	13,071
	50-74% specialization.....	13	2,043	8,524	1,586	3,245	6,464	15,115	12,413	27,528
	Less than 50% specialization.....	5	2,005	8,484	1,532	2,861	6,017	10,632	12,796	23,429
25143	Metal porch, lawn and other outdoor furniture:									
	All establishments specializing in product class.	60	3,865	12,621	3,328	6,436	9,476	21,819	30,517	52,336
	Establishments with:									
	90% or more specialization.....	39	1,832	4,858	1,658	2,891	3,726	9,306	14,355	23,661
	75-89% specialization.....	5	336	1,300	294	577	1,053	2,684	3,278	5,963
	50-74% specialization.....	12	1,032	3,872	842	1,854	2,797	6,031	9,743	15,775
	Less than 50% specialization.....	4	664	2,590	533	1,113	1,898	3,797	3,139	6,936
25144	Metal beds and cots:									
	All establishments specializing in product class.	29	807	3,008	673	1,332	2,228	5,160	4,580	9,741
	Establishments with:									
	90% or more specialization.....	16	73	201	60	113	131	388	644	1,032
2514	METAL HOUSEHOLD FURNITURE—Continued									
2514	Other metal household furniture:									
	All establishments specializing in product class.	140	5,890	22,364	4,835	9,501	15,945	40,275	40,454	80,729
	Establishments with:									
	90% or more specialization.....	96	2,459	8,551	2,041	4,092	6,162	16,359	20,003	36,362
	75-89% specialization.....	12	1,071	4,760	835	1,739	3,407	8,268	5,895	14,164
	50-74% specialization.....	21	1,258	4,796	1,045	2,048	3,552	7,546	8,981	16,528
	Less than 50% specialization.....	11	1,101	4,256	913	1,622	2,823	8,100	5,574	13,675

See footnote at end of table.



## HOUSEHOLD FURNITURE

25A-23

Table 8.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY INDUSTRY SPECIALIZATION AND PRIMARY PRODUCT CLASS SPECIALIZATION, FOR THE UNITED STATES: 1954—Continued

Ind. or product class No.	Industry or product class by percent of specialization	Establishments, number	All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
2515	MATTRESSES AND BEDSPRINGS (entire industry).....	1,195	32,096	121,516	25,122	49,325	84,588	216,362	248,153	464,516
	Establishments with:									
	90% or more specialization.....	928	11,083	38,974	8,632	16,965	25,590	74,306	101,973	176,279
	75-89% specialization.....	103	4,755	18,716	3,359	6,670	10,972	33,542	41,421	74,964
	50-74% specialization.....	129	12,976	52,259	10,392	19,829	39,673	88,827	86,044	174,872
	All other <sup>1</sup> .....	35	3,281	11,565	2,738	5,859	8,351	19,685	18,715	38,401
25151	Mattresses and pads:									
	All establishments specializing in product class.	850	25,803	98,655	19,987	38,871	68,814	179,188	208,077	387,266
	Establishments with:									
	90% or more specialization.....	387	2,776	8,322	2,216	4,079	5,945	15,449	22,562	38,012
	75-89% specialization.....	88	1,001	2,963	786	1,529	1,982	5,424	7,323	12,748
	50-74% specialization.....	304	12,477	50,871	9,574	19,200	35,364	93,198	111,421	204,620
	Less than 50% specialization.....	71	9,548	36,498	7,410	14,062	25,521	65,115	66,770	131,885
25152	Bedsprings:									
	All establishments specializing in product class.	122	3,560	13,112	2,927	5,780	9,218	20,583	21,127	41,710
	Establishments with:									
	90% or more specialization.....	61	997	3,486	814	1,484	2,374	5,821	6,552	12,374
	75-89% specialization.....	12	157	469	136	277	390	779	929	1,709
	50-74% specialization.....	28	1,161	4,983	964	1,919	3,743	7,182	6,322	13,505
	Less than 50% specialization.....	21	1,244	4,174	1,012	2,099	2,710	6,799	7,322	14,121
2519	HOUSEHOLD FURNITURES (entire industry).....	69	1,285	4,437	1,056	2,074	3,316	7,815	7,760	15,576
	Establishments with:									
	90% or more specialization.....	54	799	2,632	666	1,338	2,218	4,443	4,851	9,295
25192	Reed, rattan, willow, and wicker furniture:									
	All establishments specializing in product class.	41	784	2,437	640	1,267	1,859	4,062	3,417	7,480
	Establishments with:									
	90% or more specialization.....	32	461	1,327	375	747	1,111	2,052	1,784	3,837

<sup>1</sup>This class includes data for establishments with less than 50 percent specialization in the primary products of the industry and establishments engaged exclusively in contract work defined in the industry. Miscellaneous small statistical adjustments are also included.



## Office, Public-Building, and Professional Furniture

This report shows 1954 Census of Manufactures statistics for establishments classified in each of the following industries:

<u>Code</u>	<u>Title</u>
2521	—Wood Office Furniture
2522	—Metal Office Furniture
2531	—Public-Building Furniture
2532	—Professional Furniture
2541	—Partitions and Fixtures

Industries in this group generally do not have a very high specialization in the production of those products which are primary to the particular industry, but frequently produce products of other industries, particularly other furniture industries. This is particularly true of Industry 2531, Public Building Furniture; and Industry 2532, Professional Furniture. This is true also, but to a lesser extent, in the case of Industry 2521, Wood Office Furniture, and Industry 2522, Metal Office Furniture. Establishments primarily engaged in manufacturing household furniture are classified in Group 251, Household Furniture; restaurant furniture in Industry 2591, Restaurant Furniture; and factory and shop furniture in Industry 2599, Furniture, Not Elsewhere Classified.

### 2521—Wood Office Furniture

This industry comprises establishments primarily engaged in manufacturing wood office furniture, whether padded, upholstered, or plain. For a detailed list of primary products of Industry 2521, refer to Table 6A, product codes 2521111 to 2521498.

The value of shipments of Industry 2521, Wood Office Furniture, in 1954 totaled \$53 million. This included shipments of primary products (wood office furniture), valued at \$45 million, shipments of other products (secondary products) valued at \$7 million, and miscellaneous receipts of less than \$1 million.

Industry 2521 shipments of wood office furniture in 1954 represented 86 percent of its total product shipments (primary and secondary). In 1947, this primary product "specialization ratio" was 92 percent. Secondary products shipped by this industry in 1954 consisted mainly of public building furniture, \$2 million, and wood household furniture (both upholstered and non-upholstered), \$2 million.

Industry 2521 shipments of wood office furniture in 1954 represented 86 percent of those products valued at \$52 million shipped by all industries. In 1947, this "coverage ratio" was 80 percent. Other industries shipping wood office furniture consisted primarily of Industry 2531 in the amount of \$2 million and Industry 2532, \$2 million.

### 2522—Metal Office Furniture

This industry comprises establishments primarily engaged in manufacturing metal office furniture, whether padded, upholstered, or plain. Establishments primarily engaged in manufacturing safes and vaults are classified in Industry 3492, Safes and Vaults. For a detailed list of primary products of Industry 2522 refer to Table 6A, product codes 2522111 to 2522498.

The value of shipments of Industry 2522, Metal Office Furniture, in 1954 totaled \$203 million. This included shipments of primary products (metal office furniture) valued at \$168 million, shipments of other products (secondary products) valued at \$33 million, and miscellaneous receipts, \$2 million.

Industry 2522 shipments of metal office furniture (primary products) in 1954 represented 84 percent of its total product shipments (primary and secondary). In 1947, this primary product "specialization ratio" was 89 percent. Secondary products shipped by Industry 2522 in 1954 consisted mainly of partitions,

shelving, lockers and fixtures (Industry 2541) \$11 million, furniture hardware (Industry 3429), over \$5 million, aircraft parts (Industry 3729), \$4 million, and a variety of products classified in other furniture industries.

Industry 2522 shipments of metal office furniture (primary products) in 1954 represented 87 percent of those products valued at \$193 million shipped by all industries. In 1947, this "coverage ratio" was 92 percent. Other industries shipping metal office furniture consisted mainly of Industry 3572, Typewriters, over \$5 million; Industry 2532, Professional Furniture, \$3 million; Industry 2514, Metal Household Furniture, \$3 million; and Industry 2541, Partitions and Shelving, \$2 million.

### 2531—Public-Building and Related Furniture

This industry comprises establishments primarily engaged in manufacturing furniture for schools, theaters, assembly halls, churches, and libraries, and in manufacturing seats for public conveyances. Establishments primarily engaged in manufacturing stone furniture are classified in Industry 3281, Cut Stone and Stone Products, and concrete furniture in Industry 3271, Concrete Products. For a detailed list of primary products of Industry 2531 refer to Table 6A, product codes 2531011 to 2531098.

The value of shipments of Industry 2531, Public-Building and Related Furniture, in 1954 totaled \$160 million. This included shipments of primary products (public-building and related furniture), valued at \$130 million, shipments of other products (secondary products) valued at \$27 million, and miscellaneous receipts of \$3 million.

Industry 2531 shipments of public-building and related furniture (primary products) in 1954 represented 83 percent of its total product shipments (primary and secondary). In 1947, this primary product "specialization ratio" was 68 percent. Secondary products shipped by Industry 2531 in 1954 consisted mainly of aircraft parts valued at \$4 million, partitions and fixtures valued at \$3 million, public-building furniture valued at \$3 million, and professional furniture valued at \$3 million.

Industry 2531 shipments of public-building and related furniture (primary products) in 1954 represented 86 percent of those products valued at \$151 million shipped by all industries. In 1947, this "coverage ratio" was 80 percent. Other industries shipping public-building and related furniture consisted mainly of Industry 2514, Metal Household Furniture, \$4 million; Industry 3949, Sporting and Athletic Goods, over \$3 million; Industry 2541, \$3 million; Industry 2521, \$2 million; and Industry 2522, \$2 million.

### 2532—Professional Furniture

Industry 2532, Professional Furniture, comprises establishments primarily engaged in manufacturing furniture especially designed for laboratory, hospital, and other professional uses, such as laboratory work tables, operating tables, and hospital beds. For a detailed list of primary products of Industry 2532 refer to Table 6A, product codes 2532011 to 2532098.

In accordance with the Standard Industrial Classification, beauty and barber shop furniture are excluded from this industry, where they were classified in the 1947 Census, and are included with Industry 3991, Beauty and Barber Shop Equipment. To achieve comparability with the 1954 Census of Manufactures, 1947 data have been retabulated according to the 1954 classification of beauty and barber shop furniture.

In the 1947 Census, hospital bedsprings were classified in Industry 2532; for 1954, hospital bedsprings are included in Industry 2515, Mattresses and Bedsprings. There has been no revision of the 1947 data on this basis, however, since it is



believed that comparability of the data is not materially affected by this change in classification.

The value of shipments of Industry 2532, Professional Furniture in 1954, totaled \$65 million. This included shipments of primary products (professional furniture) valued at \$52 million, shipments of other products (secondary products) valued at \$12 million, and miscellaneous receipts of \$1 million.

Industry 2532 shipments of professional furniture (primary products) in 1954 represented 81 percent of its total product shipments (primary and secondary). In 1947 this primary products "specialization ratio" was 62 percent. Secondary products shipped by Industry 2532 in 1954 consisted mainly of metal office furniture, \$4 million, and cases, cabinets, counters and other fixtures \$2 million.

Industry 2532 shipments of professional furniture (primary products) in 1954 represented 68 percent of those products valued at \$76 million shipped by all industries. In 1947 this "coverage ratio" was 67 percent. Other industries shipping professional furniture consisted mainly of Industry 2515, Mattresses and Bedsprings, \$4 million; Industry 2531, Public-Building Furniture, \$3 million; Industry 3842, Surgical Apparatus and Supplies, \$3 million; Industry 3585, Refrigeration Machinery, \$2 million and Industry 2541, Partitions and Fixtures, \$2 million.

**2541—Partitions and Fixtures** (Full Standard Industrial Classification Title: Partitions, Shelving, Lockers, and Office and Store Fixtures.

Industry 2541, Partitions and Fixtures, comprises establishments primarily engaged in manufacturing from wood, metal, or other materials, prefabricated partitions, shelving, cabinets, show and display cases, office and store fixtures, and related fabricated products including bar fixtures, telephone booths, butchers' fixtures, lockers, display racks and stands, and store and lunch-room window-backs. Establishments primarily engaged in manufacturing refrigerated cabinets, show cases, and

display cases, are classified in Industry 3585, Refrigeration Machinery, and safes and vaults in Industry 3492, Safes and Vaults. For a detailed list of primary products of Industry 2541, refer to Table 6A, product codes 25411111 to 2541281.

The value of shipments of Industry 2541, Partitions and Fixtures in 1954, totaled \$397 million. This included shipments of primary products (partitions and fixtures), valued at \$343 million, shipments of other products (secondary products) valued at \$45 million, and miscellaneous receipts (mainly contract work on materials owned by others) of \$9 million.

Industry 2541 shipments of partitions and fixtures (primary products) in 1954 represented 88 percent of its total product shipments (primary and secondary). In 1947 this primary product "specialization ratio" of the industry was 88 percent. Secondary products shipped by Industry 2541 in 1954 consisted of a variety of miscellaneous items including office, public-building and professional furniture valued at \$7 million, metal kitchen furniture, over \$5 million, and computing and related machines, over \$5 million.

In Industry 2541 shipments of partitions and fixtures (primary products) in 1954 represented 87 percent of those products valued at \$395 million shipped by all industries. In 1947, this "coverage ratio" was 89 percent. Production of partitions and fixtures in other industries is distributed over a wide range of industries; the largest volume of such shipments was reported by Industry 2522, \$11 million, Industry 3585, Refrigeration Machinery, \$4 million; Industry 3463, Metal Stampings, \$3 million; and Industry 2531, \$3 million.

Within the industry, there is also a high degree of specialization in materials used by plants in Industry 2541; establishments producing wood partitions and fixtures, produce only negligible amounts of metal products and, similarly, wood products are rarely produced by plants producing metal partitions and fixtures. The quantity and value of materials consumed are shown in Table 7.

The general statistics (employment, payrolls, value of shipments, cost of materials, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products, and, for that matter, their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (Tables 1-4) with product statistics (Table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in Table 5A which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry made as secondary products by establishments classified in other industries.

## OFFICE, PUBLIC-BUILDING, AND PROFESSIONAL FURNITURE

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Table 1.—GENERAL STATISTICS FOR THE UNITED STATES: 1954 AND EARLIER YEARS  
(For explanation of column captions see Introduction)

Industry and census year	Establish- ments, number	All employees		Production workers		Value added by manufacture <sup>2</sup> (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments <sup>3</sup> (\$1,000)
		Number <sup>1</sup>	Payroll (\$1,000)	Number <sup>1</sup>	Wages (\$1,000)			
Wood office furniture (S.I.C. 2521)								
1954.....	112	5,509	18,788	4,773	14,605	28,757	23,954	52,712
1953 <sup>4</sup> .....	(NA)	4,542	15,670	3,989	12,104	22,040	17,929	39,969
1952 <sup>4</sup> .....	(NA)	4,858	17,673	4,261	13,928	27,491	22,380	49,871
1951 <sup>4</sup> .....	(NA)	5,504	19,505	4,937	15,892	32,208	27,732	59,940
1950 <sup>4</sup> .....	(NA)	4,904	15,639	4,241	12,522	21,499	21,080	42,579
1949 <sup>4</sup> .....	(NA)	4,748	13,847	4,152	10,526	19,902	15,622	35,524
1947.....	114	6,458	16,805	5,759	13,782	25,863	21,620	47,483
1939 <sup>5</sup> .....	64	(NA)	(NA)	4,013	3,603	7,327	5,949	13,276
Metal office furniture (S.I.C. 2522)								
1954.....	129	16,143	66,038	13,397	51,535	125,808	77,103	202,932
1953 <sup>4</sup> .....	(NA)	18,223	75,945	14,757	58,191	135,610	79,895	215,505
1952 <sup>4</sup> .....	(NA)	18,625	75,792	15,561	58,202	155,489	83,418	238,907
1951 <sup>4</sup> .....	(NA)	16,999	64,602	13,776	48,747	132,601	82,898	215,499
1950 <sup>4</sup> .....	(NA)	14,609	50,297	11,518	36,275	95,500	56,923	152,423
1949 <sup>4</sup> .....	(NA)	13,155	45,102	10,908	33,788	83,794	48,757	132,551
1947.....	102	14,289	41,417	11,768	32,106	78,685	46,997	125,682
1939 <sup>5</sup> .....	63	(NA)	(NA)	7,152	9,341	23,076	15,407	38,483
Public-building furniture (S.I.C. 2531)								
1954.....	292	14,044	52,638	11,556	38,905	87,446	72,098	159,545
1953 <sup>4</sup> .....	(NA)	12,678	44,417	10,543	34,931	76,251	62,296	138,547
1949 <sup>4</sup> .....	(NA)	9,302	28,601	7,626	21,396	44,601	38,825	83,426
1947*.....	120	10,213	28,629	8,542	21,562	44,614	31,378	75,992
1939.....	106	7,062	9,058	5,900	6,568	15,241	11,438	26,679
1937 <sup>6</sup> .....	79	(NA)	(NA)	6,450	7,451	16,488	12,542	29,030
Professional furniture (S.I.C. 2532)								
1954.....	102	5,526	23,092	4,234	15,853	38,228	27,172	65,401
1953 <sup>4</sup> .....	(NA)	6,673	29,144	5,320	20,771	50,000	39,775	89,775
1951 <sup>4</sup> .....	(NA)	6,181	25,523	4,960	18,112	44,776	36,054	80,830
1950 <sup>4</sup> .....	(NA)	5,719	20,692	4,580	14,285	36,403	28,686	65,089
1949 <sup>4</sup> .....	(NA)	4,967	17,512	3,863	11,329	29,506	23,232	52,829
1947*.....	62	5,197	15,498	4,187	10,947	25,674	16,083	41,757
1939*.....	73	(NA)	(NA)	2,815	3,182	7,933	6,064	13,997
1937 <sup>6</sup> .....	70	(NA)	(NA)	3,256	4,046	9,485	6,782	16,267
Partitions and fixtures (S.I.C. 2541)								
1954.....	1,626	33,137	142,515	26,584	102,071	230,712	166,231	396,974
1953 <sup>4</sup> .....	(NA)	34,692	148,190	28,321	109,301	239,398	170,043	409,441
1952 <sup>4</sup> .....	(NA)	25,801	105,216	20,771	77,559	172,294	114,562	286,856
1951 <sup>4</sup> .....	(NA)	27,235	106,377	22,514	80,071	169,244	127,132	296,376
1950 <sup>4</sup> .....	(NA)	27,214	96,181	22,289	72,095	147,904	116,748	264,652
1949 <sup>4</sup> .....	(NA)	26,643	90,214	21,913	68,096	150,352	111,198	261,550
1947.....	1,135	27,816	89,115	23,888	70,180	137,814	108,050	245,864
1939 <sup>5</sup> .....	767	(NA)	(NA)	14,911	19,036	43,857	33,087	76,944
1937 <sup>6</sup> .....	580	(NA)	(NA)	15,237	19,875	42,218	32,567	74,785

NA Not available. \*Revised.

<sup>1</sup>For the period 1949-1954 inclusive, figures are based on employment for the payroll periods ended nearest the 15th of March, May, August and November. For 1947, they represent the average of 12 monthly figures. For earlier years, the production worker average was calculated as in 1947, but the figure for all employees represents the sum of the annual average number of production workers and the number of nonproduction workers reported for one payroll period (usually in October).

<sup>2</sup>Value of products less cost of materials, supplies, fuel, electric energy and contract work. See Introduction, "Value Added by Manufacture."

<sup>3</sup>For 1947-1954, value of shipments for all other years, value of production. See Introduction, "Value of Shipments."

<sup>4</sup>The figures for 1949-1953 represent estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period. Estimates with a standard error in excess of 15 percent generally have been omitted from this table.

<sup>5</sup>The returns for 1939 have been retabulated on the basis of 1947 industry classification. However, the 1939 figures for "Wood office furniture," "Metal office furniture," and "Partitions and fixtures" are not entirely comparable with the 1947 figures because they include data for establishments primarily engaged in the manufacture of restaurant furniture. These establishments could not be specifically identified from the 1939 census returns. Separate figures are not available prior to 1939 for "Wood office furniture" and "Metal office furniture." For "Partitions and fixtures," value added for 1939, before retabulation and on a basis comparable with 1937, was \$40.2 million.

<sup>6</sup>"Public-building furniture," "Professional furniture," and "Partitions and fixtures" were formerly included in the discontinued classification "Furniture, including store and office fixtures." Separate figures for each are therefore not available for years prior to 1937.

<sup>7</sup>The figures for 1947, but not for other years, have been revised for comparability with 1954 by excluding data for establishments primarily engaged in the manufacture of beauty and barber shop equipment. Value added by manufacture for 1947 on a basis comparable with the other years was \$27.5 million.

## MANUFACTURES--INDUSTRY STATISTICS

Table 2.—GENERAL STATISTICS BY REGIONS AND STATES: 1954 AND 1947  
(For explanation of column captions see Introduction)

Industry, region, and State <sup>1</sup>	1954											1947	
	Establishments, number		All employees		Production workers			Value added by manufacture	Cost of materials, etc.	Value of shipments	Capital expenditures, new	All employees, number	Value added by manufacture
	Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)		(\$1,000)
Wood office furniture (S.I.C. 2521), total.....	112	50	5,509	18,788	4,773	9,681	14,605	28,757	23,954	52,712	615	6,458	25,863
Northeast.....	44	17	1,879	6,963	1,618	3,387	5,481	9,976	9,503	19,479	237	2,493	9,927
New York.....	33	11	1,398	5,575	1,188	2,534	4,362	8,143	7,253	15,396	133	1,818	8,191
East North Central.....	33	19	2,018	7,054	1,719	3,341	5,331	10,771	8,056	18,827	146	(D)	(D)
Ohio.....	4	2	299	1,178	241	457	803	1,589	1,174	2,763	36	315	(D)
Indiana.....	10	10	1,015	3,300	883	1,738	2,634	5,176	4,131	9,308	61	1,176	6,047
Illinois.....	6	3	103	320	86	158	218	427	406	834	15	438	1,612
Michigan.....	9	3	453	1,818	381	762	1,325	2,910	1,760	4,670	25	422	1,693
Wisconsin.....	4	1	148	438	126	224	350	667	584	1,251	8	(D)	(D)
West North Central.....	4	1	202	753	173	341	544	1,140	1,249	2,390	(D)	(D)	(D)
South.....	14	10	1,211	3,221	1,096	2,250	2,589	5,562	4,226	9,789	125	(?)	(?)
North Carolina.....	6	6	1,034	2,699	927	1,898	2,131	4,722	3,498	8,221	73	814	2,427
Texas.....	6	3	137	416	124	266	370	666	605	1,272	33	85	(D)
West.....	17	3	188	796	166	360	658	1,307	918	2,226	(D)	(?)	(?)
Metal office furniture (S.I.C. 2522), total.....	129	77	16,143	66,038	13,397	26,765	51,535	125,808	77,103	202,932	4,734	14,289	78,685
Northeast.....	46	31	5,892	22,387	4,875	10,127	17,811	45,352	26,213	71,566	1,498	4,886	28,999
New York.....	24	16	3,336	12,540	2,646	5,482	9,840	29,904	14,627	44,532	866	3,415	22,423
East North Central.....	39	25	8,437	37,672	7,086	13,807	29,563	67,529	42,850	110,380	2,881	(D)	(D)
Ohio.....	11	7	4,491	19,863	3,762	7,237	15,729	34,705	17,643	52,348	(D)	5,951	29,150
Indiana.....	5	4	535	1,996	408	771	1,380	3,757	3,426	7,183	266	(D)	(D)
Illinois.....	8	4	1,157	5,111	908	1,758	3,523	8,163	6,275	14,439	(D)	1,052	5,831
Michigan.....	11	7	2,040	9,764	1,829	3,644	8,297	18,970	14,262	33,232	306	1,457	9,716
Wisconsin.....	4	3	212	937	178	397	632	1,932	1,244	3,177	59	156	(D)
West North Central.....	16	10	800	2,631	643	1,287	1,874	5,840	3,968	9,809	(D)	(D)	(D)
Minnesota.....	5	2	91	305	73	125	209	541	316	857	(D)	95	(D)
South.....	12	5	716	2,251	548	1,103	1,474	5,062	2,415	7,477	131	(D)	(D)
Pacific.....	16	6	297	1,097	242	439	811	2,024	1,655	3,700	(D)	96	(D)
Public-building furniture (S.I.C. 2531), total.....	292	119	14,044	52,638	11,556	24,120	38,905	87,446	72,098	159,545	3,781	10,213	44,614
New England.....	17	6	546	1,946	451	959	1,474	2,835	2,071	4,906	(D)	(D)	(D)
Middle Atlantic.....	52	20	1,716	6,495	1,447	2,917	5,060	11,606	7,982	19,588	273	1,117	(D)
New York.....	25	9	893	3,458	728	1,459	2,624	6,422	2,994	9,417	124	637	3,592
East North Central.....	85	40	5,823	24,586	4,628	9,520	17,901	39,589	33,198	72,787	1,755	5,515	23,278
Ohio.....	24	9	670	2,683	540	1,113	2,043	3,724	2,805	6,530	81	357	1,434
Illinois.....	21	12	947	3,637	824	1,765	2,775	6,254	5,676	11,931	441	1,406	6,320
Michigan.....	14	8	3,090	14,228	2,314	4,671	9,969	22,457	19,416	41,873	979	2,849	(D)
West North Central.....	23	6	708	2,839	555	1,174	2,095	5,050	4,324	9,374	(D)	122	292
Minnesota.....	6	1	130	415	109	230	350	742	1,258	2,001	45	(D)	(D)
South.....	74	35	4,218	12,309	3,607	7,808	9,213	21,284	18,926	40,211	1,202	(?)	(?)
North Carolina.....	14	9	1,465	3,963	1,290	2,831	3,093	6,358	5,650	12,008	363	428	(D)
Kentucky.....	5	2	50	116	42	90	84	201	233	434	8	(D)	(D)
Alabama.....	5	...	19	46	17	26	44	58	71	129	...	(D)	(D)
Arkansas.....	7	4	228	663	194	403	513	819	1,215	2,035	293	(D)	(D)
Mountain.....	4	2	119	514	94	210	346	771	448	1,219	5	(D)	(D)
Pacific.....	37	10	911	3,947	771	1,529	2,814	6,308	5,148	11,457	226	(?)	(?)
Professional furniture (S.I.C. 2532), total.....	102	39	5,526	23,092	4,234	8,834	15,853	38,228	27,172	65,401	951	5,197	25,674
New England.....	6	1	56	201	47	92	147	270	214	484	(D)	39	145
Middle Atlantic.....	26	13	1,505	6,227	1,225	2,508	4,488	10,220	7,572	17,793	291	1,408	7,082
New York.....	19	10	1,231	5,053	1,013	2,098	3,617	8,675	6,590	15,266	252	607	2,831
East North Central.....	38	18	3,160	13,464	2,343	5,026	9,048	22,663	16,123	38,787	510	3,244	16,084
Ohio.....	7	5	249	892	192	382	608	1,483	1,359	2,842	183	236	841
Illinois.....	10	5	291	1,191	242	475	806	1,959	1,008	2,968	58	119	619
Michigan.....	8	4	1,303	5,994	979	2,090	4,198	9,955	6,411	16,366	109	1,115	(D)
West North Central.....	8	3	542	2,263	401	796	1,446	3,367	2,086	5,453	(D)	365	1,499
South.....	10	3	143	403	116	221	315	668	511	1,180	(D)	(D)	(D)
Pacific.....	14	1	118	534	100	188	407	1,037	664	1,702	30	(D)	(D)

See footnotes at end of table.



## OFFICE, PUBLIC-BUILDING, AND PROFESSIONAL FURNITURE

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Table 2.—GENERAL STATISTICS BY REGIONS AND STATES: 1954 AND 1947—Continued

(For explanation of column captions see Introduction)

Industry, region, and State <sup>1</sup>	1954										1947		
	Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
	Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
Partitions and fixtures (S.I.C. 2541), total.....	1,626	358	33,137	142,515	26,584	53,101	102,071	230,712	166,231	396,974	7,031	27,816	137,814
New England.....	96	26	1,915	7,453	1,566	3,231	5,624	11,475	8,515	19,991	205	1,761	7,098
Maine.....	5	2	104	257	86	160	199	607	408	1,015	10	(D)	(D)
Massachusetts.....	54	15	943	3,612	759	1,494	2,617	5,381	4,118	9,500	89	900	3,820
Rhode Island.....	12	4	210	857	158	301	576	1,349	1,096	2,446	20	255	898
Connecticut.....	18	3	278	1,233	228	494	941	1,908	1,422	3,331	52	285	1,299
Middle Atlantic.....	525	115	8,963	38,327	7,315	14,615	29,094	62,314	47,827	110,173	1,349	6,954	36,390
New York.....	361	78	5,852	25,735	4,784	9,689	19,508	41,548	31,911	73,489	1,063	4,937	28,134
New Jersey.....	68	11	767	3,265	601	1,221	2,393	5,552	4,031	9,584	68	633	2,311
Pennsylvania.....	96	29	2,343	9,326	1,930	3,703	7,192	15,213	11,885	27,100	217	1,384	5,945
East North Central.....	325	94	12,301	55,984	9,956	19,885	39,492	94,490	65,161	159,652	3,815	10,382	54,589
Ohio.....	88	29	5,657	25,945	4,673	8,967	18,795	45,943	32,520	78,464	2,098	4,750	24,103
Indiana.....	29	5	487	2,167	401	802	1,613	3,478	2,604	6,082	54	497	2,317
Illinois.....	120	36	3,671	16,770	2,894	5,787	11,212	28,303	19,232	47,536	747	3,002	17,268
Michigan.....	58	19	2,138	9,681	1,700	3,769	6,823	14,746	9,450	24,196	882	1,657	8,775
Wisconsin.....	30	5	345	1,411	285	557	1,048	2,018	1,354	3,373	32	476	2,126
West North Central.....	105	25	2,337	9,298	1,867	3,549	6,273	14,304	9,288	23,592	327	2,416	10,067
Minnesota.....	29	6	508	2,127	392	698	1,204	4,027	2,054	6,082	112	401	1,956
Iowa.....	13	1	192	840	155	306	499	1,173	887	2,060	47	293	1,579
Missouri.....	46	16	1,213	4,758	982	1,844	3,485	6,449	4,132	10,582	104	1,191	4,598
Nebraska.....	8	1	357	1,320	280	581	869	2,250	1,830	4,080	41	407	1,462
South Atlantic.....	135	30	2,615	10,327	1,769	3,632	5,731	14,435	9,740	24,175	390	1,335	5,369
Maryland.....	25	10	411	1,645	322	671	1,192	2,162	1,786	3,949	66	109	476
District of Columbia.....	6	2	126	673	92	184	414	750	437	1,188	10	79	(D)
Virginia.....	16	4	1,179	4,498	632	1,200	1,669	6,007	3,643	9,651	154	200	829
West Virginia.....	7	1	55	213	44	78	139	373	375	749	6	84	(D)
North Carolina.....	14	5	292	1,188	222	533	683	2,054	1,045	3,100	31	339	1,695
Georgia.....	14	4	204	660	177	333	549	875	736	1,612	53	207	755
Florida.....	45	4	311	1,364	248	575	1,018	2,075	1,559	3,634	60	266	979
East South Central.....	44	8	743	2,527	597	1,279	1,836	3,913	3,734	7,647	91	491	1,799
Kentucky.....	14	3	187	660	151	335	485	1,232	1,464	2,696	36	219	859
Tennessee.....	16	3	307	1,084	246	507	784	1,732	1,569	3,302	41	(D)	(D)
Alabama.....	8	1	114	332	94	222	252	405	348	754	4	95	(D)
Mississippi.....	6	1	134	451	105	213	314	542	352	894	9	(D)	(D)
West South Central.....	99	14	1,064	4,151	872	1,808	3,052	6,309	4,815	11,124	150	959	3,732
Arkansas.....	5	...	37	142	29	61	89	207	184	392	2	39	(D)
Louisiana.....	10	...	36	100	29	62	84	202	99	302	6	99	(D)
Oklahoma.....	17	1	89	325	72	150	267	467	391	859	13	51	(D)
Texas.....	67	13	901	3,583	740	1,534	2,610	5,430	4,139	9,570	128	770	2,967
Mountain.....	47	5	325	1,367	260	505	1,039	2,152	1,705	3,858	52	517	1,635
Colorado.....	17	4	198	884	157	296	654	1,304	901	2,206	25	294	960
Arizona.....	10	1	67	254	55	115	205	420	365	786	14	49	(D)
Utah.....	10	...	31	113	26	52	99	193	155	348	9	92	(D)
Nevada.....	5	...	14	74	11	22	46	165	239	405	2	(D)	(D)
Pacific.....	250	41	2,871	13,078	2,377	4,594	9,926	21,318	15,441	36,760	648	3,001	17,135
Washington.....	27	1	237	1,013	204	389	851	1,543	874	2,418	93	176	795
Oregon.....	21	3	280	1,220	231	444	947	2,045	1,542	3,588	26	365	2,045
California.....	202	37	2,353	10,844	1,942	3,760	8,128	17,729	13,024	30,754	529	2,460	14,295

Note: Detailed figures may not add to the totals, because of independent rounding.

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>General statistics for some producing States are not shown separately in the table (see INTRODUCTION "Confidentiality of Data for Individual Companies"). Such States are shown below with the number of establishments in each State and, in parentheses, the number of employees or the employment-size range for that State: S.I.C. 2521, Wood Office Furniture: Northeast—Massachusetts, 1 (1-19); New Jersey, 1 (1-19); Pennsylvania, 9 (250-499); West North Central—Iowa, 1 (100-249); Missouri, 2 (1-19); Kansas, 1 (1-19); South—Tennessee, 1 (1-19); Mississippi, 1 (20-99); West—Colorado, 3 (1-19); California, 14 (100-249).

S.I.C. 2522, Metal Office Furniture: Northeast—Massachusetts, 2 (20-99); Connecticut, 1 (1-19); New Jersey, 6 (500-999); Pennsylvania, 13 (1,000-2,499); West North Central—Iowa, 3 (250-499); Missouri, 6 (250-499); Nebraska, 1 (20-99); Kansas, 1 (20-99); South—Virginia, 1 (250-499); South Carolina, 1 (20-99); Georgia, 1 (20-99); Kentucky, 1 (1-19); Tennessee, 3 (20-99); Mississippi, 1 (1-19); Oklahoma, 1 (1-19); Texas, 3 (20-99); Pacific—Washington, 1 (1-19); California, 15 (250-499).

S.I.C. 2531, Public Building Furniture: New England—New Hampshire, 2 (20-99); Vermont, 1 (20-99); Massachusetts, 10 (250-499); Connecticut, 4 (100-249); Middle Atlantic—New Jersey, 4 (100-249); Pennsylvania, 23 (500-999); East North Central—Indiana, 10 (250-499); Wisconsin, 16 (500-999); West North Central—Iowa, 2 (100-249); Missouri, 10 (250-499); Nebraska, 2 (1-19); Kansas, 3 (20-99); South—Maryland, 1 (1-19); Virginia, 3 (500-999); West Virginia, 3 (20-99); South Carolina, 1 (1-19); Georgia, 4 (100-249); Florida, 2 (100-249); Tennessee, 2 (20-99); Mississippi, 2 (20-99); Louisiana, 2 (20-99); Oklahoma, 6 (20-99); Texas, 17 (1,000-2,499); Mountain—Idaho, 1 (20-99); Colorado, 1 (1-19); Utah, 2 (20-99); Pacific—Washington, 3 (100-249); Oregon, 2 (1-19); California, 32 (500-999).

S.I.C. 2532, Professional Furniture: New England—Massachusetts, 4 (20-99); Rhode Island, 1 (1-19); Connecticut, 1 (1-19); Middle Atlantic—New Jersey, 1 (1-19); Pennsylvania, 6 (250-499); East North Central—Indiana, 9 (250-499); Wisconsin, 4 (1,056); West North Central—Iowa, 1 (1-19); Missouri, 7 (500-999); South—Maryland, 3 (1-19); Virginia, 1 (20-99); Georgia, 2 (20-99); Tennessee, 1 (1-19); Mississippi, 1 (1-19); Texas, 2 (20-99); Pacific—Oregon, 1 (1-19); California, 13 (100-249).

S.I.C. 2541, Partitions and Fixtures: New England—New Hampshire, 4 (250-499); Vermont, 3 (20-99); West North Central—North Dakota, 1 (1-19); South Dakota, 1 (1-19); Kansas, 7 (20-99); South Atlantic—Delaware, 2 (1-19); South Carolina, 6 (20-99); Mountain—Montana, 1 (1-19); Idaho, 1 (1-19); New Mexico, 3 (1-19).

<sup>2</sup>In 1947 the South and West together reported employment of 1,227 and value added of \$3,724 thousand.<sup>3</sup>In 1947 the South and Pacific together reported employment of 1,231 and value added of \$3,616 thousand.

## MANUFACTURES—INDUSTRY STATISTICS

Table 3.—DETAILED STATISTICS FOR THE UNITED STATES: 1954

(For explanation of line captions see Introduction)

Item	Wood office furniture (S.I.C. 2521)		Metal office furniture (S.I.C. 2522)		Public-building furniture (S.I.C. 2531)	
	All estab- lishments	Establish- ments with 90% or more primary prod- uct special- ization	All estab- lishments	Establish- ments with 90% or more primary prod- uct special- ization	All estab- lishments	Establish- ments with 90% or more primary prod- uct special- ization
Primary product specialization ratio <sup>1</sup> .....	86	xxx	84	xxx	83	xxx
Coverage ratio <sup>2</sup> .....	86	xxx	87	xxx	86	xxx
Number of establishments, total.....	112	81	129	103	292	215
With 1-19 employees.....	62	47	52	47	173	126
With 20-99 employees.....	28	20	42	35	90	75
With 100 employees and over.....	22	14	35	21	29	14
All employees:						
Number (average for year).....	5,509	3,690	16,143	7,330	14,044	6,982
Payroll.....\$1,000..	18,788	13,489	66,038	28,973	52,638	25,018
Production workers:						
Number (average for year).....	4,773	3,170	13,397	6,241	11,556	6,063
Man-hours.....1,000..	9,681	6,517	26,765	12,565	24,120	12,687
Wages.....\$1,000..	14,605	10,353	51,535	22,836	38,905	19,442
Value added by manufacture.....	28,757	20,746	125,808	53,624	87,446	40,852
Cost of materials, etc.....	23,954	17,220	77,103	38,576	72,098	35,019
Value of shipments.....	52,712	37,967	202,932	92,200	159,545	75,872
Value added by resales.....	191	59	2,481	399	968	609
Cost of products bought and resold.....	1,455	487	6,133	869	3,258	2,191
Sales of products bought and resold.....	1,646	546	8,614	1,269	4,227	2,801
Total inventories, beginning of year.....	9,789	6,551	39,848	16,012	27,428	10,182
Total inventories, end of year.....	9,705	6,539	36,988	15,174	28,315	10,751
Capital expenditures, new.....	615	( <sup>3</sup> )	4,734	1,318	3,781	2,050
Number of employees for selected months:						
March.....	5,430	3,669	16,237	7,392	13,473	6,531
May.....	5,328	3,602	15,928	7,226	13,693	6,840
August.....	5,576	3,739	15,960	7,244	15,067	7,522
November.....	5,702	3,748	16,447	7,459	13,943	7,034
Cost of materials, fuel, electricity and contract work, total.....\$1,000..	23,954	17,220	77,103	38,576	72,098	35,019
Materials, parts, containers, and supplies consumed.....	22,691	16,171	74,259	37,383	69,382	33,312
Fuels consumed, total.....	265	169	842	368	681	288
Bituminous coal and anthracite:						
Quantity.....1,000 short tons..	28	(NA)	45	(NA)	37	(NA)
Value.....\$1,000..	216	(NA)	300	(NA)	347	(NA)
Coke:						
Quantity.....1,000 short tons..	...	...	...	...	( <sup>4</sup> )	...
Value.....\$1,000..	...	...	...	...	6	...
Fuel oil:						
Quantity.....1,000 barrels..	5	(NA)	48	(NA)	20	(NA)
Value.....\$1,000..	17	(NA)	187	(NA)	97	(NA)
Gas:						
Quantity.....million cubic feet..	84	(NA)	993	(NA)	360	(NA)
Value.....\$1,000..	26	(NA)	353	(NA)	137	(NA)
Other fuels:						
Value.....do....	6	(NA)	2	(NA)	94	(NA)
Electric energy:						
Purchased:						
Quantity.....million kwh..	18	11	66	26	48	25
Cost.....\$1,000..	340	234	993	461	832	443
Generated.....million kwh..	2	2	1	( <sup>5</sup> )	9	1
Cost of contract work.....\$1,000..	658	646	1,009	369	1,203	979
Manufacturers' inventories:						
Beginning of year, total.....do....	9,789	6,551	39,848	16,012	27,428	10,182
Finished products.....do....	2,767	1,571	11,999	4,139	5,294	1,596
Work-in-process.....do....	2,647	1,910	10,247	3,100	9,359	3,372
Materials, supplies, fuel, etc.....do....	4,374	3,069	17,601	8,773	12,774	5,214
End of year, total.....do....	9,705	6,539	36,988	15,174	28,315	10,751
Finished products.....do....	2,844	1,614	11,930	4,295	7,469	1,857
Work-in-process.....do....	2,681	1,999	10,166	3,280	8,938	3,565
Materials, supplies, fuel, etc.....do....	4,179	2,926	14,891	7,598	11,907	5,327
Expenditures for plant and equipment, total.....	750	562	4,810	1,391	4,092	2,301
Capital expenditures, new.....	615	( <sup>3</sup> )	4,734	1,318	3,781	2,050
New structures and additions to plant.....	( <sup>3</sup> )	( <sup>3</sup> )	1,612	( <sup>3</sup> )	1,315	996
New machinery and equipment.....do....	( <sup>3</sup> )	( <sup>3</sup> )	3,122	1,023	2,465	1,054
Expenditures for used plant and equipment.....	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
Horsepower rating of power equipment at end of 1954:						
Horsepower of prime movers and electric motors driven by purchased energy, total.....1,000 hp..	22	12	45	17	45	21
Engines, etc. driving electric generators.....do....	2	1	1	( <sup>6</sup> )	7	( <sup>6</sup> )
Engines, etc. not driving electric generators.....do....	1	...	1	( <sup>6</sup> )	( <sup>6</sup> )	( <sup>6</sup> )
Electric motors driven by purchased energy.....do....	19	11	43	16	38	21
Electric motors driven by energy generated at the establishment.....do....	3	3	1	...	6	( <sup>6</sup> )

See footnotes at end of table.

## OFFICE, PUBLIC-BUILDING, AND PROFESSIONAL FURNITURE

25B-7

Table 3.—DETAILED STATISTICS FOR THE UNITED STATES: 1954—Continued

Item	Professional furniture (S.I.C. 2532)		Partitions and fixtures (S.I.C. 2541)	
	All estab- lishments	Establish- ments with 90% or more primary prod- uct special- ization	All estab- lishments	Establish- ments with 90% or more primary prod- uct special- ization
Primary product specialization ratio <sup>1</sup> .....	81	xxx	88	xxx
Coverage ratio <sup>2</sup> .....	68	xxx	87	xxx
Number of establishments, total.....	102	73	1,626	1,326
With 1-19 employees.....	63	48	1,268	1,075
With 20-99 employees.....	26	16	314	226
With 100 employees and over.....	13	9	44	25
All employees:				
Number (average for year).....	5,526	3,466	33,137	21,384
Payroll.....\$1,000..	23,092	14,659	142,515	93,302
Production workers:				
Number (average for year).....	4,234	2,711	26,584	17,285
Man-hours.....1,000..	8,834	5,628	53,101	34,520
Wages.....\$1,000..	15,853	10,145	102,071	67,013
Value added by manufacture.....do...	38,228	24,541	230,712	153,426
Cost of materials, etc.....do...	27,172	16,182	166,231	104,741
Value of shipments.....do...	65,401	40,724	396,974	258,199
Value added by resales.....do...	593	474	3,600	2,730
Cost of products bought and resold.....do...	1,890	1,237	16,012	10,165
Sales of products bought and resold.....do...	2,484	1,711	19,612	12,895
Total inventories, beginning of year.....do...	13,005	7,151	55,951	34,956
Total inventories, end of year.....do...	12,017	6,693	57,054	35,700
Capital expenditures, new.....do...	951	672	7,031	5,332
Number of employees for selected months:				
March.....	5,452	3,469	32,432	20,716
May.....	5,377	3,446	31,789	20,538
August.....	5,611	3,499	33,726	21,767
November.....	5,664	3,449	34,600	22,516
Cost of materials, fuel, electricity and contract work, total.....\$1,000..	27,172	16,182	166,231	104,741
Materials, parts, containers, and supplies consumed.....do...	25,516	15,326	157,783	99,161
Fuels consumed, total.....do...	294	166	1,494	948
Bituminous coal and anthracite:				
Quantity.....1,000 short tons..	13	(NA)	56	(NA)
Value.....\$1,000..	135	(NA)	523	(NA)
Coke:				
Quantity.....1,000 short tons..	...	...	1	(NA)
Value.....\$1,000..	...	...	17	(NA)
Fuel oil:				
Quantity.....1,000 barrels..	15	(NA)	89	(NA)
Value.....\$1,000..	56	(NA)	381	(NA)
Gas:				
Quantity.....million cubic feet..	141	(NA)	1,310	(NA)
Value.....\$1,000..	99	(NA)	507	(NA)
Other fuels:				
Value.....do...	4	...	66	(NA)
Electric energy:				
Purchased:				
Quantity.....million kwh..	16	10	109	72
Cost.....\$1,000..	312	188	2,078	1,384
Generated.....million kwh..	1	...	2	1
Cost of contract work.....\$1,000..	1,067	499	4,876	3,248
Manufacturers' inventories:				
Beginning of year, total.....do...	13,005	7,151	55,951	34,956
Finished products.....do...	2,347	996	12,577	7,914
Work-in-process.....do...	5,102	2,841	16,180	10,442
Materials, supplies, fuel, etc.....do...	5,555	3,314	27,194	16,600
End of year, total.....do...	12,017	6,693	57,054	35,700
Finished products.....do...	2,291	1,069	13,865	8,536
Work-in-process.....do...	4,747	2,699	16,826	11,174
Materials, supplies, fuel, etc.....do...	4,978	2,924	26,362	15,989
Expenditures for plant and equipment, total.....do...	987	683	7,665	5,646
Capital expenditures, new.....do...	951	672	7,031	5,332
New structures and additions to plant.....do...	(3)	(3)	2,871	2,254
New machinery and equipment.....do...	611	(3)	4,172	3,090
Expenditures for used plant and equipment.....do...	(3)	(3)	621	(3)
Horsepower rating of power equipment at end of 1954:				
Horsepower of prime movers and electric motors				
driven by purchased energy, total.....1,000 hp..	11	6	84	49
Engines, etc. driving electric generators.....do...	3	1	1	1
Engines, etc. not driving electric generators.....do...	(6)	(6)	1	1
Electric motors driven by purchased energy.....do...	8	5	82	47
Electric motors driven by energy generated at the establishment.....do...	(6)	...	1	(6)

Note: Detailed figures may not add to the totals because of independent rounding.   xxx Not applicable.   NA Not available.   <sup>1</sup>The specialization ratio compares the given industry's shipments of its primary products to its total shipments of all products. (The primary products are listed in Table 5B and 6A; the first 4-digits of the product code represent the industry code to which the product is primary.)   <sup>2</sup>The coverage ratio measures the extent to which the total shipments of products primary to the given industry are shipped by establishments classified in that industry.

<sup>3</sup>Less than \$500 thousand.<sup>4</sup>Less than 500 tons.<sup>5</sup>Less than 500 thousand kwh.<sup>6</sup>Less than 500 hp.



## MANUFACTURES—INDUSTRY STATISTICS

Table 4.—SELECTED STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR THE UNITED STATES: 1954

(Value figures in thousands of dollars. For explanation of line captions see Introduction. Data which cannot be shown without disclosing information for individual companies have been combined with figures for other size classes. A (D) appears in the column where the figure has been omitted and the combined figure is underlined and shown in the size-class to the left)

Ind. code	Industry and item	Total, all establishments	Establishments with an average of—									
			1-4 em- ployees	5-9 em- ployees	10-19 em- ployees	20-49 em- ployees	50-99 em- ployees	100-249 employees	250-499 employees	500-999 employees	1,000-2,499 employees	2,500 employees and over
2521	Wood office furniture:											
	Number of establishments..	112	20	14	28	23	5	17	5	...	...	...
	Number of employees.....	5,509	44	108	395	696	365	2,315	1,583	...	...	...
	Value added by manufacture	28,757	276	527	1,978	3,768	1,756	11,250	9,201	...	...	...
2522	Metal office furniture:											
	Number of establishments..	129	21	14	17	28	14	21	6	6	1	1
	Number of employees.....	16,143	58	93	228	926	940	3,307	2,417	8,171	(D)	(D)
	Value added by manufacture	125,808	330	459	1,312	5,462	5,683	29,556	20,896	62,106	(D)	(D)
2531	Public-building furniture:											
	Number of establishments..	292	91	42	40	55	35	18	8	2	1	...
	Number of employees.....	14,044	241	306	598	1,795	2,601	2,535	2,568	3,398	(D)	...
	Value added by manufacture	87,446	1,354	1,666	2,722	9,211	14,035	16,347	17,208	24,901	(D)	...
2532	Professional furniture:											
	Number of establishments..	102	34	15	14	19	7	7	5	...	1	...
	Number of employees.....	5,526	74	110	209	651	511	991	2,977	...	(D)	...
	Value added by manufacture	38,228	477	621	1,465	3,810	3,622	5,360	22,870	...	(D)	...
2541	Partitions and fixtures:											
	Number of establishments..	1,626	726	305	237	221	93	30	10	2	2	...
	Number of employees.....	33,137	1,709	2,166	3,380	6,890	6,340	4,563	3,294	4,794	(D)	...
	Value added by manufacture	230,712	11,266	13,864	21,497	45,241	43,324	34,017	22,608	38,891	(D)	...

Note: Detailed figures may not add to the totals, due to independent rounding.

Table 5A.—INDUSTRY-PRODUCT ANALYSIS—SUMMARY OF INDUSTRY AND PRIMARY PRODUCT SHIPMENTS, SPECIALIZATION RATIOS AND COVERAGE RATIOS FOR THE UNITED STATES: 1954 AND 1947

Industry code	Industry and census year	Value of shipments					Value of primary products shipped			
		Total	Primary products	Secondary products	Miscellaneous receipts	Primary product specialization ratio <sup>1</sup> Col. B Col. B+C (Percent)	Total (made in all industries)	Made in this industry	Made in other industries	Coverage ratio <sup>2</sup> Col. G Col. F (Percent)
(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(E)	(F)	(G)	(H)	(I)		
2521	Wood office furniture.....1954..	52,712	44,933	7,202	577	86	52,396	44,933	7,463	86
	1947..	47,483	43,632	3,564	287	92	54,308	43,632	10,676	80
2522	Metal office furniture.....1954..	202,932	168,312	33,125	1,495	84	193,481	168,312	25,169	87
	1947..	125,682	110,536	13,916	1,230	89	120,387	110,536	9,851	92
2531	Public-building furniture....1954..	159,545	129,860	27,020	2,665	83	151,370	129,860	21,510	86
	1947..	75,992	50,997	24,261	734	68	64,077	50,997	13,080	80
2532	Professional furniture.....1954..	65,401	51,933	12,064	1,404	81	76,129	51,933	24,196	68
	1947..	41,757	25,682	15,754	321	62	38,051	25,682	12,369	67
2541	Partitions and fixtures.....1954..	396,974	342,580	44,814	9,580	88	395,284	342,580	52,704	87
	1947..	245,864	214,089	29,479	2,296	88	240,546	214,089	26,457	89

<sup>1</sup>The specialization ratio compares the given industry's shipments of its primary products to its total shipments of all products. (The primary products are listed in Tables 5B and 6A; the first 4-digits of the product code represent the industry code to which the product is primary.)

<sup>2</sup>The coverage ratio measures the extent to which the total shipments of products primary to the given industry are shipped by establishments classified in that industry.

## OFFICE, PUBLIC-BUILDING, AND PROFESSIONAL FURNITURE

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Table 5B.—INDUSTRY-PRODUCT ANALYSIS—SHIPMENTS BY PRODUCT CLASS AND INDUSTRY, FOR THE UNITED STATES: 1954

(In thousands of dollars. Each column shows for the industry listed in the column heading, the total value of shipments divided between (1) office, public building, and professional furniture, (2) other products, and (3) miscellaneous receipts. Each figure represents the amount of the product class shown at the left shipped by the industry listed at the top of the column. The first four digits of the product class codes at the left represent the codes of the industries to which they are primary. All other product classes in a column represent products secondary to the specified industry)

Prod. class code	Class of products and miscellaneous receipts	Wood office furniture (S.I.C. 2521)	Metal office furniture (S.I.C. 2522)	Public building furniture (S.I.C. 2531)	Professional furniture (S.I.C. 2532)	Partitions and fixtures (S.I.C. 2541)	Other industries	All industries
	Total shipments of the industry.....	52,712	202,932	159,545	65,401	396,974	xxx	xxx
	Office, public building and professional furniture.....	47,961	182,763	138,120	60,756	350,488	88,572	868,660
25211	Wood office chairs, sofas, including upholstered.....	17,869	...	794	(1)	(1)	1,794	20,494
25212	Wood office desks.....	17,232	(1)	180	(1)	255	250	17,966
25213	Wood office cabinets and cases.....	2,976	(D)	(D)	(1)	248	234	4,432
25214	Other wood office furniture.....	5,614	(1)	206	(D)	190	434	8,037
25210	Wood office furniture, not specified by kind.....	1,242	...	(1)	...	(1)	115	1,467
25221	Metal office chairs, sofa including upholstered.....	442	30,923	...	...	...	1,973	33,338
25222	Metal office desks.....	...	43,211	...	(D)	(D)	130	44,014
25223	Metal office cabinets and cases.....	...	80,654	(D)	(D)	1,708	11,205	94,003
25224	Other metal office furniture.....	...	12,542	...	(D)	(D)	4,775	21,092
25220	Metal office furniture, not specified by kind.....	...	982	...	...	...	52	1,034
25310	Public building furniture.....	2,274	1,617	129,860	507	3,266	13,846	151,370
25320	Professional furniture, except beauty and barber shop.....	...	986	2,908	51,933	1,624	18,678	76,129
25411	Partitions, shelving and lockers (metal or wood).....	(D)	6,215	2,402	(1)	110,295	8,233	127,414
25412	Cases, cabinets, counters, and other fixtures.....	115	5,217	1,038	2,314	212,193	25,883	246,760
25410	Partitions and fixtures, not specified by kind.....	(1)	...	(1)	(1)	20,092	970	21,110
	Secondary products.....	4,174	18,674	18,760	3,241	36,906	xxx	xxx
	Miscellaneous receipts.....	577	1,495	2,665	1,404	9,580	xxx	xxx
	Contract and commission work.....	443	276	911	426	1,914	xxx	xxx
	Installation work by manufacturing plant employees.....	...	207	1,412	295	4,417	xxx	xxx
	Other.....	134	1,012	342	683	3,249	xxx	xxx

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>Less than \$100 thousand.

## MANUFACTURES—INDUSTRY STATISTICS

Table 6A.—QUANTITY AND VALUE OF PRODUCTS SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1954 AND 1947

Product code number	Product	Unit of quantity	Total shipments including interplant transfers			
			1954		1947	
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
2521---	Wood office furniture, total.....		xxx	52,396	xxx	54,308
25211	Chairs, stools, couches, etc. (including upholstered).....		xxx	20,494	xxx	18,652
2521111	Chairs and stools (including upholstered):					
	Quantity reported.....	Units.....	597,133	13,414	(NA)	16,401
	Quantity not reported.....		xxx	4,944		
2521151	Sofas, couches, settees, etc. (including upholstered).....	Units.....	33,600	2,136	(NA)	2,251
25212	Desks.....		xxx	17,966	xxx	21,210
2521211	Executive type.....	Units.....	175,223	14,013	(NA)	15,002
2521251	Stenographer type (with typewriter compartment):					
	Quantity reported.....	do.....	51,677	3,498	(NA)	6,208
	Quantity not reported.....		xxx	455		
25213	Cabinets and cases.....		xxx	4,432	xxx	5,297
2521311	File.....		xxx	1,388	xxx	3,278
2521398	Other and not specified.....		xxx	3,044	xxx	2,019
25214	Other wood office furniture.....		xxx	8,037	xxx	7,069
2521411	Tables and stands.....		xxx	4,936	xxx	4,041
2521498	Other.....		xxx	3,101	xxx	3,028
2521000 2521099	Wood office furniture, not specified by kind <sup>2</sup> .....		xxx	1,467	xxx	2,080
2522---	Metal office furniture, total.....		xxx	193,481	xxx	120,387
25221	Chairs, stools, couches, etc., including upholstered.....		xxx	33,338	xxx	16,687
2522111	Chairs and stools (including upholstered).....	Units.....	1,135,170	32,866	(NA)	15,577
2522151	Sofas, couches, settees, etc. (including upholstered).....	do.....	4,740	472	(NA)	1,110
25222	Desks.....	do.....	471,667	44,014	(NA)	14,109
2522211	Executive type.....	do.....	361,354	33,585	(NA)	10,860
2522251	Stenographer type (with typewriter compartment).....	do.....	110,313	10,429	(NA)	3,249
25223	Cabinets and cases.....		xxx	94,003	xxx	76,775
2522311	Four-drawer file cabinets, legal and letter size:					
	Quantity reported.....	Units.....	340,322	21,009	xxx	76,775
	Quantity not reported.....		xxx	10,158		
2522319	Other file cabinets and cases.....		xxx	42,098		
2522398	Other cabinets and cases.....		xxx	19,331		
2522300	Cabinets and cases, not specified by kind.....		xxx	1,402		
25224	Other metal office furniture.....		xxx	21,092	xxx	7,567
2522411	Tables and stands.....		xxx	14,486	xxx	5,209
2522498	Other.....		xxx	6,606	xxx	12,358
2522000 2522099	Metal office furniture, not specified by kind <sup>2</sup> .....		xxx	1,034	xxx	5,249
2531---	Public-building furniture, total.....		xxx	151,370	xxx	64,077
	School furniture:					
2531011	Desk and desk seat combinations (excluding chair desks and two pupil table desks).....	Units.....	1,130,752	17,286	(NA)	4,949
	Table-arm chairs and chair desks:					
2531021	Wood.....	Number of chairs.	499,934	3,431	(NA)	1,190
2531025	Metal.....	do.....	1,294,966	13,432	(NA)	924
	Other chairs, benches, and stools:					
2531031	Wood:					
	Quantity reported.....	Units.....	880,772	6,538	(NA)	1,017
	Quantity not reported.....		xxx	1,326		
2531035	Metal:					
	Quantity reported.....	Units.....	1,076,293	5,989	(NA)	1,243
	Quantity not reported.....		xxx	1,207		
2531039	Other school furniture (tables, table desks, cabinets, chalkboards, etc.), except stone and concrete.....		xxx	22,130	xxx	2,956
2531041	Seats for public conveyances (including school buses) <sup>3</sup> .....		xxx	11,191	xxx	23,324
	Church furniture, except stone and concrete:					
2531051	Church pews.....	Linear ft.....	(NA)	12,593	(NA)	2,381
2531061	Other church furniture (pulpits, altars, lecterns, etc.).....		xxx	7,058	xxx	2,032

See footnotes at end of table.



## OFFICE, PUBLIC-BUILDING, AND PROFESSIONAL FURNITURE

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Table 6A.--QUANTITY AND VALUE OF PRODUCTS SHIPPED BY ALL PRODUCERS IN THE UNITED STATES: 1954 AND 1947--Continued

Product code number	Product	Unit of quantity	Total shipments including interplant transfers			
			1954		1947	
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
2531---	Public-building furniture--Continued					
	Chairs and seats:					
	Theatre and auditorium:					
2531071	Ganged-type chairs, fixed and portable.....	Number of chairs.	753,553	8,905	(NA)	9,336
2531075	Single folding chairs.....	do.....	3,916,668	13,749	(NA)	4,290
2531081	Stadium and bleacher seats.....	.....	xxx	6,295	xxx	1,999
2531098	Other (tables, benches, etc.).....	.....	xxx	10,077	xxx	2,518
2531000	Public-building furniture, except stone and concrete, not specified by kind <sup>2</sup> .....	.....	xxx	10,163	xxx	5,918
2531099		.....	xxx	10,163	xxx	5,918
2532---	Professional furniture, total.....	.....	xxx	76,129	xxx	438,051
	Hospital furniture (excluding operating equipment and instruments):					
2532011	Beds (all types, except bassinets).....	Units.....	146,056	4,315	(NA)	1,970
2532015	Operating room furniture, including tables, cases, cabinets, etc....	.....	xxx	6,445	}	15,114
2532019	Other (cabinets, cases, desks, tables, bassinets, chart racks, back rests, etc.).....	.....	xxx	23,418		
	Laboratory furniture:					
	Cabinets and cases:					
2532031	Wood.....	.....	xxx	16,999	xxx	5,777
2532041	Metal.....	.....	xxx	16,292	xxx	5,625
2532098	Other (tables, stools, reagent shelves, etc.).....	.....	xxx	5,088	xxx	4,785
2532000	Professional furniture, except beauty and barber shop, not specified by kind <sup>2</sup> .....	.....	xxx	3,572	xxx	4,780
2532099		.....	xxx	3,572	xxx	4,780
2541---	Partitions and fixtures, total.....	.....	xxx	395,284	xxx	240,546
25411	Partitions, shelving, and lockers.....	.....	xxx	127,414	xxx	63,354
	Partitions:					
2541111	Wood.....	Thousand sq. ft..	(NA)	5,929	(NA)	5,224
2541115	Metal.....	do.....	15,437	39,096	(NA)	18,311
	Shelving:					
2541131	Wood.....	Thousand lin. ft.	(NA)	6,603	(NA)	6,773
2541135	Metal.....	do.....	20,389	38,976	(NA)	21,621
	Lockers:					
2541151	Wood.....	Thousand openings	(NA)	442	(NA)	1,030
2541155	Metal.....	do.....	2,899	23,873	(NA)	10,395
2541171	Other partitions, shelving, and lockers, material not specified....	.....	xxx	12,495	xxx	( <sup>5</sup> )
25412	Cases, cabinets, counters, and other fixtures, including bank fixtures	.....	xxx	246,760	xxx	153,991
	Show and display cases (including wall types) and tables:					
2541211	Wood.....	.....	xxx	63,625	xxx	57,384
2541215	Metal.....	.....	xxx	12,737	xxx	3,997
	Cabinets (floor or wall type):					
2541231	Wood.....	.....	xxx	15,221	xxx	13,047
2541235	Metal.....	.....	xxx	10,116	xxx	5,679
	Counters:					
2541251	Wood.....	.....	xxx	12,953	xxx	13,512
2541255	Metal.....	.....	xxx	4,995	xxx	777
2541271	Other wood fixtures (window backs, telephone booths, miscellaneous display fixtures, cashier stands, clothing racks, etc.).....	.....	xxx	37,208	xxx	24,066
2541275	Other metal fixtures (window backs, telephone booths, miscellaneous display fixtures, cashier stands, clothing racks, etc.).....	.....	xxx	52,822	xxx	14,699
2541281	Bank counters and fixtures, except ornamental metal work.....	.....	xxx	7,323	xxx	( <sup>6</sup> )
2541298	Other store and industrial fixtures, material not specified.....	.....	xxx	29,760	xxx	( <sup>5</sup> )
2541000	Partitions and fixtures, not specified by kind <sup>2</sup> .....	.....	xxx	21,110	xxx	23,201
2541099		.....	xxx	21,110	xxx	23,201

NA Not available. xxx Not applicable.

<sup>1</sup>Includes clothing racks and costumers classified in Industry 2541 in 1954 (see product codes 2541271 and 2541275 for wood and metal, respectively).<sup>2</sup>Largely accounted for by small establishments that were not asked to report a breakdown of total shipments.<sup>3</sup>Does not include the "captive" production of manufacturers of motor vehicles and other transportation equipment.<sup>4</sup>Revised to exclude beauty and barber shop equipment classified in Industry 3991, and hospital bedsprings classified in Industry 2515, in 1954.<sup>5</sup>Represents \$20,830,000 of partitions and fixtures for which material was not specified and also cannot be distributed between codes 2541171 and 2541298.<sup>6</sup>Not reported as separate items in 1947; probably reported principally as counters 2541251 and 2541255.

## MANUFACTURES—INDUSTRY STATISTICS

Table 6B.—VALUE OF PRODUCT CLASSES SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, BY DIVISIONS AND STATES FOR 1954, AND UNITED STATES TOTALS FOR EARLIER YEARS

(In thousands of dollars. Statistics are shown for selected product classes which are economically significant and production of which is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (Table 2) and they are not miscellaneous or "not specified by type" classes. For each product class, States are listed only if the value of shipments is more than \$1 million and the figure does not disclose individual company information. Additional States which had shipments of more than \$1 million of the individual product classes are listed in footnote 1.)

Product class, region, and State <sup>1</sup>	Value of shipments	Product class, region, and State <sup>1</sup>	Value of shipments	Product class, region, and State <sup>1</sup>	Value of shipments
<b>Metal office cabinets and cases (25223)</b>		<b>Professional furniture, exc. beauty and barbershop (25320)</b>		<b>Partitions, shelving, and lockers (metal or wood) (25411)—Continued</b>	
1954 United States, total.....	94,003	1954 United States, total.....	76,129	West South Central.....	2,379
1953 United States, total.....	103,672	1953 United States, total.....	82,489	Texas.....	2,169
1952 United States, total.....	117,810	1952 United States, total.....	89,663	Mountain.....	273
1951 United States, total.....	114,889	1951 United States, total.....	83,412	Pacific.....	8,062
1947 United States, total.....	76,775	1950 United States, total.....	58,681	California.....	7,175
1954		1947 United States, total.....	238,051	<b>Cases, cabinets, counters, and other fixtures (25412)</b>	
New England.....	942	1954		1954 United States, total.....	246,760
Middle Atlantic.....	43,536	New England.....	519	1953 United States, total.....	139,883
New York.....	29,054	Middle Atlantic.....	25,614	1952 United States, total.....	133,732
New Jersey.....	2,629	New York.....	17,544	1951 United States, total.....	140,859
Pennsylvania.....	11,852	North Central.....	43,469	1950 United States, total.....	123,630
East North Central.....	40,454	East North Central.....	37,318	1947 United States, total.....	3153,991
Ohio.....	20,240	Ohio.....	3,234	1954	
Illinois.....	6,621	Indiana.....	3,534	New England.....	13,670
Michigan.....	12,335	Illinois.....	5,047	Massachusetts.....	5,699
West North Central.....	2,725	Michigan.....	15,665	Rhode Island.....	2,253
South.....	3,426	Wisconsin.....	9,837	Connecticut.....	2,356
Pacific.....	2,920	West North Central.....	6,151	Middle Atlantic.....	81,253
<b>Public-building furniture (25310)</b>		Missouri.....	6,000	New York.....	56,463
1954 United States, total.....	151,370	South Atlantic.....	2,339	New Jersey.....	8,156
1947 United States, total.....	64,077	West.....	3,528	Pennsylvania.....	16,633
1954		California.....	3,106	East North Central.....	70,577
New England.....	5,672	<b>Partitions, shelving, and lockers (metal or wood) (25411)</b>		Ohio.....	12,940
Massachusetts.....	2,761	1954 United States, total.....	127,414	Indiana.....	5,434
Connecticut.....	1,568	1953 United States, total.....	105,868	Illinois.....	29,215
Middle Atlantic.....	17,183	1952 United States, total.....	100,635	Michigan.....	18,271
New York.....	8,464	1951 United States, total.....	100,254	Wisconsin.....	4,715
New Jersey.....	1,199	1950 United States, total.....	77,073	West North Central.....	19,455
Pennsylvania.....	7,519	1947 United States, total.....	63,354	Minnesota.....	4,618
East North Central.....	73,929	1954		Iowa.....	1,671
Ohio.....	6,846	New England.....	2,963	Missouri.....	8,672
Indiana.....	8,569	Massachusetts.....	2,368	Nebraska.....	4,041
Illinois.....	12,247	Middle Atlantic.....	31,192	South Atlantic.....	15,259
Michigan.....	38,456	New York.....	17,253	Maryland.....	3,687
Wisconsin.....	7,821	New Jersey.....	1,028	District of Columbia.....	1,045
West North Central.....	6,613	Pennsylvania.....	12,911	Virginia.....	1,784
Minnesota.....	1,569	East North Central.....	70,543	North Carolina.....	3,161
Iowa.....	1,612	Ohio.....	47,273	Georgia.....	1,022
Missouri.....	2,910	Illinois.....	17,311	Florida.....	4,078
South Atlantic.....	18,642	Michigan.....	5,330	East South Central.....	7,016
North Carolina.....	11,365	West North Central.....	2,976	Kentucky.....	3,655
Georgia.....	1,092	Missouri.....	2,490	Tennessee.....	2,199
East South Central.....	1,444	South Atlantic.....	7,658	West South Central.....	7,545
West South Central.....	15,043	East South Central.....	1,366	Texas.....	6,450
Arkansas.....	1,935	Ohio.....	47,273	Mountain.....	3,929
Texas.....	12,391	Illinois.....	17,311	Colorado.....	1,603
Mountain.....	833	Michigan.....	5,330	Arizona.....	1,457
Pacific.....	11,998	West North Central.....	2,976	Pacific.....	28,055
Washington.....	1,165	Missouri.....	2,490	Washington.....	1,973
California.....	10,691	South Atlantic.....	7,658	Oregon.....	1,518
		East South Central.....	1,366	California.....	24,564

NOTE: The figures shown for 1949 to 1953 are sample estimates obtained from the Annual Survey of Manufactures for those years. Since the estimates are based on a sample they are subject to sampling variability, that is, they are not the same as figures which would have been obtained if complete censuses had been taken for those years. Measures of the sampling variability (standard errors) of the estimated total value of shipments of each product class are shown in the Annual Survey of Manufactures publications. Also shown are the standard errors of the relative change in shipments between some consecutive Annual Survey years which are the more significant measures when the series is studied for trend.

<sup>1</sup>For the specified product classes, shipments of over \$1 million were reported for the States listed but the exact figures are withheld to avoid disclosure of individual company figures: 25223, Iowa, Virginia, California, and Wisconsin; 25310, Virginia; 25320, Pennsylvania; 25411, Tennessee and Virginia; 25412, Maine and New Hampshire.

<sup>2</sup>The figures for 1947, but not for other years, have been revised for comparability with 1954 by excluding shipments of Beauty Parlor and Barber Shop furniture. The value of product class 25320, Professional Furniture, for 1947, on a basis comparable with other years was \$44.6 million.

<sup>3</sup>In addition to the value shown by product class for Industry 2541, Partitions and Fixtures, shipments not specified by kind in the value of \$23,201,000 were reported.

## OFFICE, PUBLIC-BUILDING, AND PROFESSIONAL FURNITURE

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Table 7.--MATERIALS CONSUMED, BY KIND: 1954 AND 1947

Code	Description of materials	Unit of measure	1954		1947	
			Quantity	Delivered cost (\$1,000)	Quantity	Delivered cost (\$1,000)
INDUSTRY 2521--WOOD OFFICE FURNITURE						
	Materials, parts, containers, and supplies, total.....	.....	xxx	22,691	xxx	20,989
242111	Rough lumber--hardwood.....	Thousand board feet.	35,269	4,115	151,594	(NA)
242231	Veneer--hardwood (other than container and flat).....	Thousand square feet (surf. measure).	42,400	1,510	(NA)	(NA)
	Plywood--hardwood:					
243211	Veneer core.....	...do.....	3,426	1,002	(NA)	(NA)
243213	Lumber core.....	...do.....	2,037	830	(NA)	(NA)
331212	Carbon steel mill shapes.....	Short ton.....	3,133	590	(D)	(D)
331219						
970000	All other materials and components, parts, containers and supplies consumed.....	.....	xxx	11,133	xxx	(NA)
971000	Materials etc., not specified by kind <sup>2</sup> .....	.....	xxx	3,511	xxx	(NA)
INDUSTRY 2522--METAL OFFICE FURNITURE						
	Materials, parts, containers, and supplies, total.....	.....	xxx	74,259	(NA)	46,150
242111	Rough and dressed lumber.....	Thousand board feet.	12,142	1,137	21,916	(NA)
242115						
242121						
242125						
	Carbon steel mill shapes:					
331212	Sheet and strip.....	Short ton.....	204,375	26,160	257,612	18,643
331219	All other carbon steel mill shapes, including tubing.....	...do.....	7,317	1,523	4,162	614
335211	Aluminum and aluminum-base alloy mill shapes and forms (rolled, drawn, and extruded).....	Thousand pounds..	3,900	1,957	(NA)	(NA)
970000	All other materials and components, parts, containers and supplies consumed...	.....	xxx	41,245	xxx	(NA)
971000	Materials etc., not specified by kind <sup>2</sup> .....	.....	xxx	2,237	xxx	(NA)
INDUSTRY 2531--PUBLIC BUILDING FURNITURE						
	Materials, parts, containers, and supplies, total.....	.....	xxx	69,382	xxx	26,704
242111	Rough lumber--hardwood.....	Thousand board feet.	43,068	7,238	127,982	(NA)
242121	Dressed lumber, total.....	...do.....	8,344	1,423	(1)	(NA)
242125						
242131	Hardwood dimension stock, rough surface or semifabricated.....	...do.....	9,480	1,825	(NA)	(NA)
242231	Veneer--hardwood (other than container and flat).....	Thousand square feet (surf. measure).	71,728	3,443	(NA)	(NA)
	Plywood--hardwood:					
243211	Veneer core.....	...do.....	(NA)	1,176	(NA)	(NA)
243213	Lumber core.....	...do.....	3,527	909	(NA)	(NA)
	Carbon steel mill shapes:					
331212	Sheet and strip.....	Short ton.....	59,654	7,987	20,153	2,384
331219	All other carbon steel mill shapes, including tubing.....	...do.....	11,408	2,213	39,698	31,327
335211	Aluminum and aluminum-base alloy mill shapes and forms (rolled, drawn, and extruded).....	Thousand pounds..	1,412	1,104	(NA)	(NA)
970000	All other materials and components, parts, containers and supplies consumed...	.....	xxx	36,608	xxx	(NA)
971000	Materials etc., not specified by kind.....	.....	xxx	5,456	xxx	(NA)
INDUSTRY 2532--PROFESSIONAL FURNITURE						
	Materials, parts, containers, and supplies, total.....	.....	xxx	25,516	(NA)	16,506
242111	Rough lumber, total.....	Thousand board feet.	13,340	1,684	(NA)	(NA)
242115						
331212	Carbon steel--sheet and strip.....	Short ton.....	19,482	2,410	14,317	1,842
331219	All other steel mill shapes, including alloy and stainless.....	...do.....	5,982	1,673	311,192	31,372
331225	Stainless steel mill shapes and forms.....	...do.....				
331231						
335211	Aluminum and aluminum-base alloy mill shapes and forms (rolled, drawn, and extruded).....	Thousand pounds..	587	465	(NA)	(NA)
970000	All other materials and components, parts, containers and supplies consumed...	.....	xxx	17,643	xxx	(NA)
971000	Materials etc., not specified by kind <sup>2</sup> .....	.....	xxx	1,641	xxx	(NA)

See footnotes at end of table.



## MANUFACTURES—INDUSTRY STATISTICS

Table 7.—MATERIALS CONSUMED, BY KIND: 1954 AND 1947—Continued

Code	Description of materials	Unit of measure	1954		1947	
			Quantity	Delivered cost (\$1,000)	Quantity	Delivered cost (\$1,000)
INDUSTRY 2541—PARTITIONS AND FIXTURES						
	Materials, parts, containers, and supplies, total.....		xxx	157,783	(NA)	92,225
242111	Rough lumber:					
	Hardwood.....	Thousand board feet.	(NA)	4,081	<sup>1</sup> 128,099	(NA)
242115	Softwood.....	....do.....	(NA)	1,766	<sup>1</sup> 162,577	(NA)
	Dressed lumber:					
242121	Hardwood.....	....do.....	(NA)	1,632	( <sup>1</sup> )	(NA)
242125	Softwood.....	....do.....	(NA)	2,719	( <sup>1</sup> )	(NA)
242231	Veneer—hardwood (other than container and flat).....	Thousand square feet (surf. measure).	(NA)	1,066	(NA)	(NA)
	Plywood—					
	Hardwood:					
243211	Veneer core.....	....do.....	(NA)	6,314	(NA)	(NA)
243213	Lumber core.....	....do.....	7,569	2,546	(NA)	(NA)
243215	Softwood.....	Thousand square feet 3/8" basis.	(NA)	4,787	(NA)	(NA)
	Carbon steel mill shapes:					
331212	Sheet and strip.....	Short ton.....	218,985	28,468	241,514	18,398
331219	All other carbon steel mill shapes.....	....do.....	12,094	2,285	13,632	1,273
331225	Alloy and stainless steel mill shapes and forms.....	....do.....	1,246	1,310	(NA)	(NA)
331231		....do.....				
335211	Aluminum and aluminum-base alloy mill shapes and forms.....	Thousand pounds..	3,166	1,625	(NA)	(NA)
970000	All other materials and components, parts, containers and supplies consumed...	.....	xxx	62,657	xxx	(NA)
971000	Materials etc., not specified by kind <sup>2</sup> .....	.....	xxx	36,527	xxx	(NA)

xxx Not applicable.

NA Not available.

<sup>1</sup>For 1947, data on rough and dressed lumber were not requested separately.<sup>2</sup>Largely accounted for by small establishments which were not requested to furnish a breakdown of these materials.<sup>3</sup>Combined with "alloy steel, except machines," to avoid disclosing figures for individual companies.

Table 8.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY INDUSTRY SPECIALIZATION AND PRIMARY PRODUCT CLASS SPECIALIZATION, FOR THE UNITED STATES: 1954

(This table presents selected statistics for establishments classified according to their degree of specialization in products primary to the industry. The establishments are classified in two ways: (1) by industry specialization—the degree of specialization in all primary products of the industry; and (2) by product-class specialization—the degree of specialization in the largest product class of the establishment. The degree of "industry specialization" for an establishment represents the ratio of its primary product shipments to its total product shipments, primary and secondary. The degree of "product-class specialization" for an establishment represents the ratio of its largest product class shipments to its total product shipments, primary and secondary. Data are not shown for some industries, product classes, and specialization ranges for a variety of reasons, consequently, detailed figures frequently do not add to the totals. See Introduction for detailed explanation)

Ind. or product class No.	Industry or product class by percent of specialization	Establishments, number	All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
2521	WOOD OFFICE FURNITURE (entire industry).....	112	5,509	18,788	4,773	9,681	14,605	28,757	23,954	52,712
	Establishments with:									
	90% or more specialization.....	81	3,690	13,489	3,170	6,517	10,353	20,746	17,220	37,967
	75-89% specialization.....	4	99	231	93	184	197	315	271	587
	50-74% specialization.....	21	1,620	4,645	1,420	2,805	3,691	7,111	6,207	13,319
	All other <sup>1</sup> .....	6	98	422	89	173	362	583	255	839
25211	Wood office chairs, sofas including upholstered:									
	All establishments specializing in product class.	36	2,248	8,388	1,914	3,821	6,456	13,188	9,739	22,927
	Establishments with:									
	90% or more specialization.....	25	1,132	4,555	950	1,927	3,397	7,009	5,855	12,865
	75-89% specialization.....	...	...	...	...	...	...	...	...	...
25212	Wood office desks:									
	All establishments specializing in product class.	27	2,408	7,533	2,110	4,391	6,008	11,355	9,409	20,764
	Establishments with:									
	90% or more specialization.....	7	263	841	225	439	671	1,395	977	2,372
	75-89% specialization.....	11	1,323	4,492	1,149	2,454	3,552	6,595	5,126	11,721
25213	Wood office cabinets and cases:									
	All establishments specializing in product class.	15	262	809	236	453	610	1,073	804	1,878
	Establishments with:									
	90% or more specialization.....	10	118	379	104	187	274	613	495	1,108
	75-89% specialization.....	...	...	...	...	...	...	...	...	...
2522	METAL OFFICE FURNITURE (entire industry).....	129	16,143	66,038	13,397	26,765	51,535	125,808	77,103	202,932
	Establishments with:									
	90% or more specialization.....	103	7,330	28,973	6,241	12,565	22,836	53,624	38,576	92,200
	75-89% specialization.....	10	2,269	8,619	1,848	3,702	6,652	21,218	10,023	31,242
25221	Metal office chairs, sofas, including upholstered:									
	All establishments specializing in product class.	21	1,733	6,745	1,401	2,857	4,958	12,739	10,862	23,601
	Establishments with:									
	90% or more specialization.....	15	687	2,858	593	1,180	2,339	6,020	5,121	11,142
25222	Metal office desks:									
	All establishments specializing in product class.	14	6,744	29,923	5,483	10,839	23,318	54,783	30,720	85,504
	Establishments with:									
	90% or more specialization.....	5	200	632	173	340	522	2,056	1,182	3,238
25223	Metal office cabinets and cases:									
	All establishments specializing in product class.	66	7,094	27,348	6,043	12,137	21,714	54,903	32,395	87,298
	Establishments with:									
	90% or more specialization.....	41	2,274	8,334	1,940	3,975	6,343	15,865	9,978	25,843
	75-89% specialization.....	7	1,578	6,355	1,232	2,383	4,675	15,225	7,371	22,597
	50-74% specialization.....	11	1,676	6,879	1,560	3,060	6,114	10,404	9,060	19,465
	Less than 50% specialization.....	7	1,565	5,778	1,309	2,717	4,580	13,407	5,985	19,393
25224	Other metal office furniture:									
	All establishments specializing in product class.	14	381	1,464	319	665	1,082	2,484	2,047	4,532
	Establishments with:									
	90% or more specialization.....	9	177	753	147	321	552	1,234	1,028	2,263
2531	PUBLIC-BUILDING FURNITURE (entire industry).....	292	14,044	52,638	11,556	24,120	38,905	87,446	72,098	159,545
	Establishments with:									
	90% or more specialization.....	215	6,982	25,018	6,063	12,687	19,442	40,852	35,019	75,872
	75-89% specialization.....	15	2,477	11,538	1,831	3,679	7,918	17,673	12,971	30,645
	50-74% specialization.....	42	3,176	10,833	2,595	5,617	8,004	19,315	16,595	35,910
	All other <sup>1</sup> .....	20	1,408	5,248	1,066	2,135	3,539	9,605	7,512	17,117
2532	PROFESSIONAL FURNITURE (entire industry).....	102	5,526	23,092	4,234	8,834	15,853	38,228	27,172	65,401
	Establishments with:									
	90% or more specialization.....	73	3,466	14,659	2,711	5,628	10,145	24,541	16,182	40,724
	75-89% specialization.....	4	252	915	220	430	692	1,433	1,141	2,575
	50-74% specialization.....	17	618	2,454	458	876	1,659	3,406	3,786	7,192
	All other <sup>1</sup> .....	8	1,189	5,063	845	1,900	3,357	8,846	6,062	14,909
2541	PARTITIONS AND FIXTURES (entire industry).....	1,626	33,137	142,515	26,584	53,101	102,071	230,712	166,231	396,974
	Establishments with:									
	90% or more specialization.....	1,326	21,384	93,302	17,285	34,520	67,013	153,426	104,741	258,199
	75-89% specialization.....	114	5,886	24,548	4,378	8,752	16,072	38,734	28,476	67,210
	50-74% specialization.....	135	3,061	13,036	2,472	5,063	9,367	19,082	14,363	33,446
	All other <sup>1</sup> .....	51	2,804	11,629	2,446	4,764	9,618	19,469	18,649	38,118

See footnote at end of table.

## MANUFACTURES—INDUSTRY STATISTICS

Table 8.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY INDUSTRY SPECIALIZATION AND PRIMARY PRODUCT CLASS SPECIALIZATION, FOR THE UNITED STATES: 1954—Continued

Ind. or prod- uct class No.	Industry or product class by percent of specialization	Estab- lish- ments, number	All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
2541	PARTITIONS AND FIXTURES—Continued									
25411	Partitions, shelving, and lockers (metal or wood):									
	All establishments specializing in product class.	169	10,576	45,039	8,025	15,901	30,521	78,785	60,004	138,819
	Establishments with:									
	90% or more specialization.....	94	3,352	15,529	2,444	4,824	9,622	30,304	17,324	47,658
	75-89% specialization.....	23	3,265	13,124	2,208	4,401	7,585	22,296	17,197	39,494
	50-74% specialization.....	41	1,566	6,302	1,257	2,559	4,786	9,264	7,462	16,727
	Less than 50% specialization.....	11	2,391	10,083	2,116	4,115	8,526	16,919	18,020	34,939
25412	Cases, cabinets, counters, and other fixtures:									
	All establishments specializing in product class.	1,145	20,495	89,431	16,828	33,741	65,234	138,793	96,344	235,138
	Establishments with:									
	90% or more specialization.....	871	13,038	56,896	10,754	21,353	41,662	90,760	65,895	156,656
	75-89% specialization.....	98	3,544	15,325	2,921	6,080	11,183	22,973	13,540	36,512
	50-74% specialization.....	133	3,030	13,337	2,474	4,963	9,731	19,706	13,318	33,025
	Less than 50% specialization.....	43	882	3,872	678	1,344	2,657	5,353	3,591	8,944

<sup>1</sup>This class includes data for establishments with less than 50% specialization in the primary products of the industry and establishments engaged exclusively in contract work defined in the industry. Miscellaneous small statistical adjustments are also included.



## Screens, Shades, and Miscellaneous Furniture

This report shows 1954 Census of Manufactures statistics for establishments classified in each of the following industries:

Code	Title
2561--	Window and Door Screens
2562--	Window Shades
2563--	Venetian Blinds
2591--	Restaurant Furniture
2599--	Furniture and Fixtures, Not Elsewhere Classified

Plants primarily engaged in producing furniture or other products to individual order or for sale direct to household consumers through retail stores on the premises are excluded from the Census of Manufactures. Establishments primarily engaged in producing household, office, public-building and professional furniture are included in Groups 251-253 Household; Office; and Public and Professional Furniture; and beauty and barber shop furniture in Industry 3991, Beauty and Barber Shop Equipment.

The industries included in this industry group do not generally specialize to a high degree in the production of those items which are primary to the industry in which they are classified. A fairly significant amount of the output of each of these industries represents products primary to industries in other industry groups. This is particularly true of establishments in Industry 2561, Window and Door Screens, and Industry 2562, Window Shades, where a high percentage of total production is accounted for by products primary to other industries. The 1954 primary products specialization ratio for the industries shown in this report range from 85 percent for Industry 2562 and 2563 to 72 percent for Industry 2591. Except for Industry 2562, Window Shades, and Industry 2563, Venetian Blinds, the primary products of the industries in this group are also produced to a large extent by other industries, particularly the millwork industry and other furniture industries.

**2561--Window and Door Screens** (Full Standard Industrial Classification title: Window and Door Screens and Weatherstrip)

This industry comprises establishments primarily engaged in manufacturing window and door screens and weatherstrip, regardless of the materials used. Establishments primarily engaged in manufacturing wire screening are classified in Industry 3489, Wirework, Not Elsewhere Classified.

Storm (and combination screen and storm) sash and doors are classified in Industry 2431, Millwork Plants, or in Industry 3442, Metal Doors, Sash, and Trim. In the 1947 Census, such plants were classified in Industry 2561; however, the 1947 data shown in this report have been revised to reflect this change in classification. For a detailed list of primary products of Industry 2561, refer to Table 6A, product code 2561011 to 2561055.

The value of shipments of Industry 2561, Window and Door Screens, in 1954 totaled \$71 million. This included shipments of primary products (window and door screens and weatherstrip) valued at \$50 million; shipments of secondary products valued at \$18 million and miscellaneous receipts of \$2 million.

Industry 2561 shipments of window and door screens and weatherstrip (primary products) in 1954 represented 73 percent of its total product shipments (primary and secondary). In 1947, this primary product specialization ratio was 65. Secondary products shipped by Industry 2561 in 1954 consisted principally of millwork products; fabricated metal products such as builders' hardware; metal molding and trim and store fronts; and metal storm sash at a value of approximately \$2 million for each group of products.

Industry 2561 shipments of window and door screens and weatherstrip (primary products) in 1954 represented 64 percent of these products valued at \$78 million shipped by all in-

dustries. The comparable coverage ratio in 1947 was 61. In 1954, as in 1947, other manufacturing industries shipping screen doors and window screens consisted mainly of Industry 2431, Millwork, and Industry 3442, Metal Doors, Sash and Trim. In 1954 plants in Industry 2431 shipped \$17 million wood screen doors and window screens, and plants in Industry 3442, \$6 million metal screen doors and window screens.

### **2562--Window Shades**

This industry comprises establishments primarily engaged in manufacturing complete window shades, window-shade rollers and fittings, and curtain rods and fixtures, regardless of the materials used. Establishments primarily engaged in manufacturing metal awnings and canopies are classified in Industry 3444, Sheet-Metal Work.

The value of shipments of Industry 2562 (Window Shades) in 1954 totaled \$64 million. This included shipments of primary products (window shades and accessories) valued at \$54 million, shipments of secondary products valued at \$9 million, and miscellaneous receipts of \$1 million.

Industry 2562 shipments of window shades and accessories (primary products) in 1954 represented 85 percent of its total product shipments (primary and secondary). In 1947 this primary product specialization ratio was 73. Secondary products shipped by this industry in 1954 consisted mainly of pyroxylin-coated fabrics; and curtains and draperies excluding lace for a total value of \$6 million.

Industry 2562 shipments of window shades and accessories in 1954 represented 78 percent of these products valued at \$70 million shipped by all manufacturing industries. This coverage ratio was 79 percent in 1947. The most important other manufacturing industry shipping window shades and accessories in 1954 was Industry 2563, Venetian Blinds, at \$9 million.

### **2563--Venetian Blinds**

This industry comprises establishments primarily engaged in manufacturing venetian blinds, regardless of the materials used. Establishments primarily engaged in manufacturing porch shades (except canvas shades and awnings classified in Industry 2394, Canvas Products) are also included in this industry. For a detailed list of primary products of this industry, refer to Table 6A, product codes 2563111 to 2563281.

The value of shipments of Industry 2563 in 1954 totaled \$114 million. This included shipments of primary products (venetian blinds and porch shades) valued at \$95 million, shipments of secondary products valued at \$17 million, and miscellaneous receipts of \$2 million.

Industry 2563 shipments of venetian blinds, (primary products) in 1954 represented 85 percent of its total product shipments (primary and secondary). In 1947 this primary product specialization ratio was 96 percent. Secondary products shipped by this industry in 1954 consisted mainly of window shades and accessories, at \$9 million.

Industry 2563 shipments of venetian blinds, etc. (primary products) in 1954 represented 93 percent of these products valued at \$102 million shipped by all manufacturing industries. The percentage in 1947 was 92.

### **2591--Restaurant Furniture**

This industry comprises establishments primarily engaged in manufacturing furniture especially designed for use in restaurants. Industry 2591 was first shown as a separate classification in 1947, thus comparable figures for earlier years are not available. For a detailed list of primary products of this industry, refer to Table 6A, product codes 2591011 to 2591098.

The value of shipments of Industry 2591 in 1954 totaled \$37 million. This included shipments of primary product (restaurant furniture) valued at \$26 million, shipments of secondary products valued at \$10 million, and a negligible amount of miscellaneous receipts.

Industry 2591 shipments of restaurant furniture (primary products) in 1954 represented 72 percent of its total product shipments (primary and secondary). In 1947 this primary product specialization ratio was 87 percent. Secondary products in this industry in 1954 consisted of a variety of furniture products.

Industry 2591 shipments of restaurant furniture in 1954 represented 78 percent of these products valued at \$34 million shipped by all industries. The coverage ratio was 69 percent in 1947. Other furniture industries accounted for most of the balance of restaurant furniture shipments.

#### 2599—Furniture and Fixtures, Not Elsewhere Classified

Industry 2599 comprises establishments primarily engaged

in manufacturing furniture and fixtures which are not classified in any of the several furniture industries e.g., factory and shop furniture.

The value of shipments of Industry 2599 in 1954 totaled \$11 million. This included shipments of primary products (furniture and fixtures, not elsewhere classified) valued at \$9 million, shipments of secondary products valued at \$2 million, and a negligible amount of miscellaneous receipts.

Industry 2599 shipments of primary products (furniture and fixtures, not elsewhere classified) in 1954 represented 83 percent of its total product shipments (primary and secondary). In 1947 this primary product specialization ratio was 89 percent.

Industry 2599 shipments of primary products in 1954 represented 61 percent of these products valued at \$51 million shipped by all industries. This coverage ratio in 1947 was 51. Shipments by other industries of products primary to Industry 2599 are distributed over a wide range of the furniture industries (Major Group 25), with no single industry predominating.

The general statistics (employment, payrolls, value of shipments, cost of materials, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products, and, for that matter, their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (Tables 1-4) with product statistics (Table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in Table 5A which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry made as secondary products by establishments classified in other industries.

## SCREENS, SHADES, AND MISCELLANEOUS FURNITURE

25C-3

Table 1.—GENERAL STATISTICS FOR THE UNITED STATES: 1954 AND EARLIER YEARS  
(For explanation of column captions see Introduction)

Industry and census year	Establishments, number	All employees		Production workers		Value added by manufacture <sup>2</sup> (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments <sup>3</sup> (\$1,000)
		Number <sup>1</sup>	Payroll (\$1,000)	Number <sup>1</sup>	Wages (\$1,000)			
Window and door screens (S.I.C. 2561):								
1954.....	215	4,405	16,887	3,632	11,376	32,630	38,246	70,877
1947 <sup>4</sup> .....	164	4,206	10,892	3,619	7,962	19,166	20,258	39,424
Window shades (S.I.C. 2562):								
1954.....	196	4,368	15,580	3,404	10,648	29,604	34,506	64,110
1949 <sup>5</sup> .....	(NA)	5,115	17,459	3,868	9,742	28,196	40,389	68,585
1947*.....	126	5,748	14,609	4,635	10,203	25,609	31,294	56,903
1939.....	273	4,072	4,821	3,261	3,411	11,661	15,410	27,071
1937.....	304	3,854	4,542	3,166	3,173	10,280	13,294	23,574
1935.....	319	3,693	4,102	2,999	2,710	8,101	12,223	20,324
1933.....	312	3,437	3,051	2,903	2,264	7,055	9,115	16,170
1929.....	482	5,686	8,028	4,708	5,624	17,180	19,785	36,965
1921.....	242	4,518	6,028	3,781	4,421	11,760	17,888	29,648
1919.....	287	5,236	5,443	4,411	3,669	10,941	18,250	29,191
1914.....	286	4,904	3,259	4,077	2,181	5,555	11,889	17,444
1909.....	219	4,576	2,725	3,930	1,918	5,918	12,653	18,571
1899.....	96	2,093	1,075	1,801	752	2,497	5,575	8,072
Venetian blinds (S.I.C. 2563):								
1954.....	916	9,416	27,254	7,290	18,065	47,696	66,455	114,152
1947.....	647	9,698	20,349	8,276	15,435	37,097	46,563	83,660
1939*.....	280	(NA)	(NA)	5,400	5,077	12,850	14,092	26,942
1937 <sup>6</sup> .....	85	(NA)	(NA)	3,228	2,992	6,629	8,120	14,749
Restaurant furniture (S.I.C. 2591):								
1954.....	163	3,401	12,718	2,809	9,245	18,790	17,737	36,751
1949 <sup>5</sup> .....	(NA)	2,916	8,708	2,334	6,346	13,526	11,813	25,339
1947 <sup>7</sup> .....	172	3,361	9,149	2,871	7,261	15,182	11,010	26,192
Furniture and fixtures, n.e.c. (S.I.C. 2599):								
1954.....	52	810	2,969	703	2,240	5,992	5,082	11,075
1947*.....	30	858	2,427	794	2,053	4,168	2,249	6,417

\* Revised

NA Not available.

<sup>1</sup>For the years 1949 and 1954, figures are based on employment for the payroll periods ended nearest the 15th of March, May, August and November. For 1947, they represent the average of 12 monthly figures. For earlier years, the production worker average was calculated as in 1947, but the figure for all employees represents the sum of the annual average number of production workers and the number of nonproduction workers reported for one payroll period (usually in October).

<sup>2</sup>Value of products less cost of materials, supplies, fuel, electric energy and contract work. See Introduction, "Value Added by Manufacture."

<sup>3</sup>For 1954-1947 and 1929, value of shipments; for all other years, value of products made. See Introduction, "Value of Shipments."

<sup>4</sup>The 1947 figures have been revised for comparability with 1954 by excluding data for establishments primarily engaged in the manufacture of Storm Sash and Doors. See text on Industry. The figures for other years have not been revised and are therefore not shown.

<sup>5</sup>The figures for 1949 represent estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period. Estimates with a standard error in excess of 15 percent generally have been omitted from this table.

<sup>6</sup>"Venetian blinds" was formerly a part of the discontinued classification "Planing-mill products, n.e.c." Separate figures are therefore not available for years prior to 1937.

<sup>7</sup>No comparable figures are available for years prior to 1947.

<sup>8</sup>In 1939, there were no establishments that could be classified in "Furniture and fixtures, n.e.c."



## MANUFACTURES—INDUSTRY STATISTICS

Table 2.—GENERAL STATISTICS BY REGIONS AND STATES: 1954 AND 1947  
(For explanation of column captions see Introduction)

Industry, region, and State <sup>1</sup>	1954											1947			
	Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)		
	Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)								
Window and door screens (S.I.C. 2561), total.....	215	48	4,405	16,887	3,632	7,240	11,376	32,630	38,246	70,877	1,156	4,206	19,166		
New England.....	8	...	32	106	25	47	72	194	230	424	(D)	745	1,969		
Middle Atlantic.....	29	7	762	2,845	639	1,295	2,155	4,896	6,511	11,407	119	657	2,865		
New York.....	13	1	111	366	90	183	270	751	909	1,660	19	153	(D)		
New Jersey.....	7	1	71	236	59	110	160	510	556	1,067	(D)	49	(D)		
Pennsylvania.....	9	5	579	2,242	489	1,001	1,725	3,634	5,044	8,679	(D)	455	1,977		
East North Central.....	50	16	1,178	4,881	980	1,927	3,496	9,610	11,291	20,901	471	1,174	7,181		
Ohio.....	8	2	221	1,051	183	346	859	2,297	2,996	5,294	11	261	2,708		
Illinois.....	22	8	470	1,863	356	611	939	4,109	3,977	8,087	(D)	456	2,619		
Michigan.....	14	5	436	1,816	403	886	1,598	2,909	3,975	6,885	96	435	1,817		
West North Central.....	8	4	180	982	245	475	663	1,767	2,363	4,130	61	207	1,096		
South Atlantic.....	38	7	689	2,460	521	1,080	1,472	4,296	5,558	9,855	(D)	1,128	4,209		
Georgia.....	8	...	52	168	42	83	91	589	690	1,279	21				
Florida.....	13	3	383	1,522	285	601	944	2,442	3,106	5,549	82				
East South Central.....	15	4	375	1,028	315	584	735	2,492	3,348	5,841	45				
Tennessee.....	5	2	259	672	228	422	502	1,552	2,157	3,710	(D)				
Alabama.....	4	1	47	193	37	78	107	618	951	1,569	(D)	295	1,846		
West South Central.....	33	5	747	2,864	571	1,227	1,694	5,755	4,496	10,252	179				
Texas.....	17	4	220	668	177	324	370	955	1,448	2,403	(D)				
Mountain.....	4	...	8	22	6	11	14	84	68	152	...				
Colorado.....	4	...	8	22	6	11	14	84	68	152	...				
Pacific.....	30	5	430	1,697	326	590	1,072	3,533	4,378	7,912	155	5,748	25,609		
Window shades (S.I.C. 2562), total.....	196	34	4,368	15,580	3,404	6,746	10,648	29,604	34,506	64,110	805				
New England.....	18	4	271	828	206	382	574	1,402	1,432	2,835	(D)			(D)	(D)
Middle Atlantic.....	69	14	1,409	5,035	1,059	2,154	3,144	8,533	10,505	19,039	200			1,715	(D)
New York.....	46	9	1,155	4,174	887	1,780	2,653	7,481	8,353	15,834	194			1,585	5,574
New Jersey.....	14	2	158	534	113	252	325	527	1,402	1,930	(D)	71	(D)		
Pennsylvania.....	9	3	95	327	58	121	165	524	749	1,274	(D)	59	(D)		
East North Central.....	51	11	2,306	8,530	1,843	3,630	6,116	17,576	18,679	36,256	386	3,320	(D)		
Illinois.....	26	3	503	1,693	393	725	1,097	2,804	5,343	8,148	15	581	4,383		
Michigan.....	9	2	958	3,614	867	1,703	3,094	9,757	7,047	16,804	183	1,031	4,560		
Wisconsin.....	3	3	212	655	167	361	513	1,137	1,380	2,517	73	69	(D)		
West North Central.....	6	...	29	59	22	43	46	147	171	318	4	(D)	(D)		
South Atlantic.....	9	1	71	214	62	125	153	320	684	1,004	(D)	176	623		
East South Central.....	3	...	14	22	10	22	17	48	86	134	...				
West South Central.....	5	1	40	107	27	57	61	216	521	737	(D)				
Texas.....	5	1	40	107	27	57	61	216	521	737	(D)				
Mountain.....	5	...	13	29	8	17	19	64	151	216	(D)				
Pacific.....	30	3	212	753	162	312	515	1,294	2,274	3,569	30	237	1,695		
Venetian blinds (S.I.C. 2563), total.....	916	87	9,416	27,254	7,290	14,012	18,065	47,696	66,455	114,152	1,892	9,698	37,097		
New England.....	43	6	726	1,793	620	1,262	1,402	3,231	3,683	6,915	93	400	1,613		
Massachusetts.....	17	5	561	1,351	505	1,031	1,122	2,199	2,437	4,637	10	283	1,200		
Rhode Island.....	6	...	23	55	17	33	40	127	249	377	3	25	(D)		
Middle Atlantic.....	220	24	1,918	5,749	1,502	2,959	3,827	10,621	17,774	28,396	341	1,959	8,213		
New York.....	131	11	785	2,425	598	1,158	1,483	4,663	8,450	13,114	76	856	(D)		
New Jersey.....	40	5	289	787	214	397	468	1,625	2,754	4,379	31	400	(D)		
Pennsylvania.....	49	8	844	2,536	690	1,404	1,875	4,333	6,569	10,902	234	703	2,595		
East North Central.....	122	15	1,077	3,300	796	1,502	2,075	5,543	6,278	11,822	376	2,135	(D)		
Ohio.....	34	5	341	1,036	245	463	625	1,574	2,036	3,611	227	427	(D)		
Illinois.....	56	6	423	1,258	315	588	782	2,320	2,550	4,870	81	881	3,009		
Michigan.....	20	3	243	851	192	366	579	1,344	1,398	2,743	58	431	1,682		
West North Central.....	44	5	499	1,517	367	733	909	2,594	2,946	5,541	71	1,144	(D)		
Minnesota.....	6	1	68	217	52	96	127	431	436	868	23	101	(D)		
Missouri.....	17	3	311	1,005	221	454	572	1,607	1,882	3,489	30	549	2,168		
Nebraska.....	7	1	82	215	64	129	151	358	381	739	5	68	(D)		
South Atlantic.....	132	17	2,750	7,779	2,162	4,124	5,482	12,981	18,080	31,061	459	1,140	4,391		
Maryland.....	7	4	1,692	5,094	1,402	2,699	3,834	8,233	11,240	19,474	(D)	403	(D)		
North Carolina.....	23	3	153	371	111	190	208	640	1,347	1,987	18	83	(D)		
Georgia.....	23	2	218	481	167	292	339	935	1,304	2,240	25	367	1,203		
East South Central.....	47	2	309	815	231	445	497	1,454	1,806	3,261	46	221	777		
Kentucky.....	9	...	40	98	29	58	62	171	231	403	19	41	(D)		
West South Central.....	135	6	982	2,447	760	1,421	1,492	4,246	5,877	10,123	(D)	1,206	4,563		
Louisiana.....	13	2	95	197	80	116	147	450	668	1,119	13	85	(D)		
Texas.....	104	4	778	1,980	600	1,157	1,175	3,270	4,606	7,877	272	954	3,333		

See footnotes at end of table.

## SCREENS, SHADES, AND MISCELLANEOUS FURNITURE

25C-5

Table 2.—GENERAL STATISTICS BY REGIONS AND STATES: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Industry, region, and State <sup>1</sup>	1954											1947	
	Establishments, number		All employees		Production workers			Value added by manufacture	Cost of materials, etc.	Value of shipments	Capital expenditures, new	All employees, number	Value added by manufacture
	Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)		(\$1,000)
Venetian blinds--Cont.													
Mountain.....	34	2	194	566	123	231	287	757	768	1,526	(D)	89	370
Pacific.....	139	10	956	3,286	726	1,331	2,090	6,266	9,239	15,505	175	1,404	6,002
California.....	117	10	854	3,031	644	1,193	1,897	5,711	8,569	14,281	154	1,161	5,022
Restaurant furniture (S.I.C. 2591), total.	163	40	3,401	12,718	2,809	5,594	9,245	18,790	17,737	36,751	559	3,361	15,182
New England.....	11	2	203	619	179	347	508	1,029	920	1,949	(D)	(D)	
Middle Atlantic.....	46	6	804	2,909	673	1,364	2,137	4,321	3,842	8,387	106	977	4,489
Pennsylvania.....	14	3	407	1,425	338	702	1,035	2,371	1,811	4,183	71	174	
North Central.....	45	15	1,556	5,980	1,274	2,553	4,310	8,346	8,201	16,547	233	1,605	7,505
Illinois.....	4	...	42	125	37	75	105	234	313	548	8	435	(D)
Wisconsin.....	4	3	491	1,840	406	864	1,336	3,073	1,838	4,911	(D)	(D)	(D)
Minnesota.....	6	2	110	393	92	174	295	804	879	1,684	76	(D)	(D)
South.....	27	8	452	1,490	353	695	1,011	2,855	2,574	5,430	151	390	1,394
West.....	34	9	384	1,719	328	633	1,277	2,238	2,199	4,437	(D)	317	1,794
Washington.....	5	2	83	418	68	135	267	549	379	929	(D)	47	236
Furniture and fixtures, n.e.c. (S.I.C. 2599), total.	52	11	810	2,969	703	1,373	2,240	5,992	5,082	11,075	134	858	4,168
New England.....	5	1	58	163	50	85	118	256	233	489	(D)		
Middle Atlantic.....	22	4	292	1,108	256	513	822	2,761	2,542	5,304	(D)	130	663
Pennsylvania.....	5	2	110	468	95	185	340	1,607	1,701	3,308	(D)		
North Central.....	13	5	396	1,497	345	664	1,127	2,626	2,021	4,648	80	531	2,835
Illinois.....	6	3	266	1,018	240	474	795	1,776	1,594	3,371	59	465	(D)
South.....	5	1	34	115	27	58	95	168	112	281	1		
Pacific.....	7	...	28	84	25	51	76	179	173	352	13	197	670

Note: Detailed figures may not add to the totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>General statistics for some producing States are not shown separately in the table (See INTRODUCTION "Confidentiality of Data for Individual Companies"). Such States are shown below with the number of establishments in each State for 1954 and, in parentheses, the number of employees or the employment-size range for that State for 1954.

S.I.C. 2561, Window and Door Screens: New England--New Hampshire, 1 (1-19); Massachusetts, 7 (20-99); East North Central--Indiana, 5 (20-99); Wisconsin, 1 (1-19); West North Central--Minnesota, 2 (1-19); Missouri, 5 (100-249); Kansas, 1 (1-19); South Atlantic--Maryland, 7 (20-99); District of Columbia, 1 (20-99); Virginia, 2 (20-99); North Carolina, 5 (20-99); South Carolina, 2 (20-99); East South Central--Kentucky, 5 (20-99); Mississippi, 1 (1-19); West South Central--Arkansas, 5 (1-19); Louisiana, 5 (1-19); Oklahoma, 6 (250-499); Pacific--Oregon, 1 (1-19); California, 29 (250-499).

S.I.C. 2562, Window Shades: New England--Maine, 1 (1-19); Massachusetts, 13 (20-99); Rhode Island, 2 (100-249); Connecticut, 2 (20-99); East North Central--Ohio, 9 (500-999); Indiana, 4 (20-99); West North Central--Minnesota, 3 (1-19); Iowa, 1 (1-19); Missouri, 2 (1-19); South Atlantic--Maryland, 7 (20-99); North Carolina, 1 (1-19); Florida, 1 (1-19); East South Central--Kentucky, 1 (1-19); Tennessee, 2 (1-19); Mountain--Colorado, 3 (1-19); Utah, 2 (1-19); Pacific--Washington, 1 (1-19); Oregon, 4 (20-99); California, 25 (100-249).

S.I.C. 2563, Venetian Blinds: New England--Maine, 2 (1-19); New Hampshire, 1 (1-19); Connecticut, 17 (100-249); East North Central--Indiana, 9 (20-99); Wisconsin, 3 (1-19); West North Central--Iowa, 6 (1-19); Kansas, 8 (20-99); South Atlantic--Delaware, 2 (20-99); Virginia, 17 (100-249); West Virginia, 3 (20-99); South Carolina, 6 (20-99); Florida, 51 (250-499); East South Central--Tennessee, 15 (100-249); Alabama, 15 (100-249); Mississippi, 8 (20-99); West South Central--Arkansas, 6 (20-99); Oklahoma, 12 (20-99); Mountain--Montana, 1 (1-19); Idaho, 1 (1-19); Wyoming, 1 (1-19); Colorado, 13 (20-99); New Mexico, 6 (1-19); Arizona, 10 (20-99); Utah, 2 (1-19); Pacific--Washington, 13 (20-99); Oregon, 9 (20-99).

S.I.C. 2591, Restaurant Furniture: New England--Maine, 1 (1-19); Massachusetts, 7 (100-249); Connecticut, 3 (20-99); Middle Atlantic--New York, 29 (250-499); New Jersey, 3 (20-99); North Central--Ohio, 6 (20-99); Indiana, 2 (1-19); Michigan, 7 (20-99); Iowa, 1 (1-19); Missouri, 13 (500-999); Nebraska, 2 (1-19); South--Maryland, 3 (1-19); Virginia, 1 (20-99); North Carolina, 1 (20-99); Georgia, 3 (20-99); Florida, 1 (20-99); Tennessee, 4 (20-99); Arkansas, 3 (20-99); Oklahoma, 2 (1-19); Texas, 9 (100-249); West--Colorado, 1 (1-19); Arizona, 1 (1-19); Oregon, 1 (1-19); California, 26 (250-499).

S.I.C. 2599, Furniture and Fixtures, n.e.c.: New England--Maine, 2 (1-19); Massachusetts, 2 (20-99); Connecticut, 1, (1-19); Middle Atlantic--New York, 15 (100-249); New Jersey, 2 (20-99); North Central--Ohio, 2 (20-99); Michigan, 3 (20-99); Minnesota, 1 (1-19); Missouri, 1 (1-19); South--Florida, 1 (1-19); Kentucky, 1 (1-19); Alabama, 1 (1-19); Oklahoma, 1 (20-99); Texas, 1 (1-19); Pacific--Oregon, 1 (1-19); California, 6 (20-99).

## MANUFACTURES--INDUSTRY STATISTICS

Table 3.--DETAILED STATISTICS FOR THE UNITED STATES: 1954

(For explanation of line captions see Introduction)

Item	Window and door screens (S.I.C. 2561)		Window shades (S.I.C. 2562)		Venetian blinds (S.I.C. 2563)	
	All estab- lishments	Establish- ments with 90% or more primary prod- uct special- ization	All estab- lishments	Establish- ments with 90% or more primary prod- uct special- ization	All estab- lishments	Establish- ments with 90% or more primary prod- uct special- ization
Primary product specialization ratio <sup>1</sup> .....	73	xxx	85	xxx	85	xxx
Coverage ratio <sup>2</sup> .....	64	xxx	78	xxx	93	xxx
Number of establishments, total.....	215	154	196	137	916	710
With 1-19 employees.....	167	136	162	117	829	658
With 20-99 employees.....	40	18	26	15	80	49
With 100 employees and over.....	8	...	8	5	7	3
All employees:						
Number (average for year).....	4,405	1,447	4,368	2,736	9,416	5,213
Payroll.....\$1,000..	16,887	5,516	15,580	9,716	27,254	14,557
Production workers:						
Number (average for year).....	3,632	1,233	3,404	2,218	7,290	3,961
Man-hours.....\$1,000..	7,240	2,292	6,746	4,349	14,012	7,581
Wages.....\$1,000..	11,376	3,314	10,648	7,009	18,065	9,378
Value added by manufacture.....do....	32,630	11,175	29,604	19,685	47,696	27,164
Cost of materials, etc.....do....	38,246	14,381	34,506	18,545	66,455	40,889
Value of shipments.....do....	70,877	25,557	64,110	38,231	114,152	68,053
Value added by resales.....do....	436	133	2,045	1,565	1,992	1,109
Cost of products bought and resold.....do....	1,606	857	8,349	6,883	5,830	3,348
Sales of products bought and resold.....do....	2,043	991	10,394	8,449	7,823	4,457
Total inventories, beginning of year.....do....	13,688	4,064	13,820	7,774	14,778	9,586
Total inventories, end of year.....do....	11,959	4,462	13,648	8,149	14,273	9,021
Capital expenditures, new.....do....	1,156	651	805	626	1,892	1,164
Number of employees for selected months:						
March.....	4,217	1,271	4,495	2,753	8,985	5,038
May.....	4,389	1,453	4,406	2,728	9,528	5,263
August.....	4,525	1,560	4,231	2,635	9,657	5,273
November.....	4,491	1,504	4,343	2,829	9,494	5,278
Cost of materials, fuel, electricity and contract work, total.....\$1,000..	38,246	14,381	34,506	18,545	66,455	40,889
Materials, parts, containers, and supplies consumed.....do....	37,743	14,195	33,830	18,178	63,891	39,045
Fuels consumed, total.....do....	136	43	189	122	284	206
Bituminous coal and anthracite:						
Quantity.....1,000 short tons..	6	(NA)	6	(NA)	10	(NA)
Value.....\$1,000..	57	(NA)	60	(NA)	104	(NA)
Fuel oil:						
Quantity.....1,000 barrels..	8	(NA)	11	(NA)	19	(NA)
Value.....\$1,000..	39	(NA)	53	(NA)	85	(NA)
Gas:						
Quantity.....million cubic feet..	105	(NA)	166	(NA)	211	(NA)
Value.....\$1,000..	35	(NA)	72	(NA)	82	(NA)
Other fuels:						
Value.....do....	5	(NA)	4	(NA)	13	(NA)
Electric energy:						
Purchased:						
Quantity.....million kwh..	13	5	16	8	39	11
Cost.....\$1,000..	232	81	252	141	579	242
Contract work cost.....do....	127	61	226	106	1,698	1,418
Manufacturers' inventories:						
Beginning of year, total.....do....	13,688	4,064	13,820	7,774	14,778	9,586
Finished products.....do....	3,085	894	6,311	2,540	4,670	2,940
Work-in-process.....do....	2,862	745	2,062	1,406	1,718	1,005
Materials, supplies, fuel, etc.....do....	7,740	2,424	5,447	3,827	8,389	5,640
End of year, total.....do....	11,959	4,462	13,648	8,149	14,273	9,021
Finished products.....do....	2,874	954	6,155	2,820	4,583	2,756
Work-in-process.....do....	2,706	1,023	1,945	1,317	1,659	1,021
Materials, supplies, fuel, etc.....do....	6,378	2,484	5,546	4,010	8,030	5,244
Expenditures for plant and equipment, total.....do....	1,225	707	2,125	633	1,972	1,203
Capital expenditures, new.....do....	1,156	651	805	626	1,892	1,164
New structures and additions to plant.....do....	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	597	( <sup>3</sup> )
New machinery and equipment.....do....	957	585	625	( <sup>3</sup> )	1,295	669
Expenditures for used plant and equipment.....do....	( <sup>3</sup> )	( <sup>3</sup> )	1,320	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
Horsepower rating of power equipment at end of 1954:						
Horsepower of prime movers and electric motors driven by pur- chased energy, total.....1,000 hp..	11	2	8	4	12	4
Engines, etc., driving electric generators.....do....	1	( <sup>5</sup> )	1	1	( <sup>5</sup> )	( <sup>5</sup> )
Engines, etc., not driving electric generators.....do....	( <sup>5</sup> )	( <sup>5</sup> )	1	1	1	( <sup>5</sup> )
Electric motors driven by purchased energy.....do....	10	2	6	2	11	4
Electric motors driven by energy generated at the estab- lishment.....do....	1	( <sup>5</sup> )	...	...	...	...

See footnotes at end of table.



## SCREENS, SHADES, AND MISCELLANEOUS FURNITURE

25C-7

Table 3.—DETAILED STATISTICS FOR THE UNITED STATES: 1954—Continued

(For explanation of line captions see Introduction)

Item	Restaurant furniture (S.I.C. 2591)		Furniture and fixtures, n.e.c. (S.I.C. 2599)	
	All estab- lishments	Establish- ments with 90% or more primary prod- uct special- ization	All estab- lishments	Establish- ments with 90% or more primary prod- uct special- ization
Primary product specialization ratio <sup>1</sup> .....	72	xxx	83	xxx
Coverage ratio <sup>2</sup> .....	78	xxx	61	xxx
Number of establishments, total.....	163	102	52	35
With 1-19 employees.....	123	84	41	30
With 20-99 employees.....	34	17	10	4
With 100 employees and over.....	6	1	1	1
All employees:				
Number (average for year).....	3,401	1,410	810	429
Payroll.....\$1,000..	12,718	4,892	2,969	1,539
Production workers:				
Number (average for year).....	2,809	1,165	703	369
Man-hours.....1,000..	5,594	2,251	1,373	734
Wages.....\$1,000..	9,245	3,544	2,240	1,165
Value added by manufacture.....do...	18,790	7,638	5,992	2,880
Cost of materials, etc.....do...	17,737	7,761	5,082	2,182
Value of shipments.....do...	36,751	15,638	11,075	5,063
Value added by resales.....do...	674	272	18	11
Cost of products bought and resold.....do...	3,061	1,536	112	79
Sales of products bought and resold.....do...	3,736	1,808	130	90
Total inventories, beginning of year.....do...	6,586	2,305	1,765	769
Total inventories, end of year.....do...	6,843	2,285	1,722	768
Capital expenditures, new.....do...	559	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
Number of employees for selected months:				
March.....	3,382	1,432	803	439
May.....	3,398	1,394	808	438
August.....	3,398	1,394	806	417
November.....	3,425	1,422	822	423
Cost of materials, fuel, electricity and contract work, total.....\$1,000..	17,737	7,761	5,082	2,182
Materials, parts, containers, and supplies consumed.....do...	16,731	7,387	4,906	2,124
Fuels consumed, total.....do...	129	54	31	14
Bituminous coal and anthracite:				
Quantity.....1,000 short tons..	6	(NA)	( <sup>4</sup> )	(NA)
Value.....\$1,000..	66	(NA)	5	(NA)
Fuel oil:				
Quantity.....1,000 barrels..	7	(NA)	3	(NA)
Value.....\$1,000..	32	(NA)	15	(NA)
Gas:				
Quantity.....million cubic feet..	71	(NA)	22	(NA)
Value.....\$1,000..	26	(NA)	10	(NA)
Other fuels:				
Value.....do...	5	(NA)	1	(NA)
Electric energy:				
Purchased:				
Quantity.....million kw..	9	4	3	1
Cost.....\$1,000..	205	81	66	30
Contract work cost.....do...	676	236	63	14
Manufacturers' inventories:				
Beginning of year, total.....do...	6,586	2,305	1,765	769
Finished products.....do...	1,188	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
Work-in-process.....do...	1,410	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
Materials, supplies, fuel, etc.....do...	3,986	1,413	1,102	( <sup>3</sup> )
End of year, total.....do...	6,843	2,285	1,722	768
Finished products.....do...	1,370	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
Work-in-process.....do...	1,593	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
Materials, supplies, fuel, etc.....do...	3,880	1,428	993	( <sup>3</sup> )
Expenditures for plant and equipment, total.....do...	565	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
Capital expenditures, new.....do...	559	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
New structures and additions to plant.....do...	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
New machinery and equipment.....do...	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
Expenditures for used plant and equipment.....do...	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
Horsepower rating of power equipment at end of 1954:				
Horsepower of prime movers and electric motors driven by pur- chased energy, total.....1,000 hp..	9	2	2	1
Engines, etc., driving electric generators.....do...	...	...	...	...
Engines, etc., not driving electric generators.....do...	( <sup>3</sup> )	...	( <sup>3</sup> )	1
Electric motors driven by purchased energy.....do...	9	2	2	...
Electric motors driven by energy generated at the estab- lishments.....do...	...	...	...	...

Note: Detailed figures may not add to the totals because of independent rounding. xxx Not applicable. NA Not available. <sup>1</sup>The specialization ratio compares the given industry's shipments of its primary products to its total shipments of all products. (The primary products are listed in Tables 5B and 6A; the first 4-digits of the product code represent the industry code to which the product is primary.) Columns containing totals for establishments with 90% or more primary product specialization are shown only for those industries having a primary product specialization of less than 90%. <sup>2</sup>The coverage ratio measures the extent to which the total shipments of products primary to the given industry are shipped by establishments classified in that industry. <sup>3</sup>Less than \$500 thousand. <sup>4</sup>Less than 500 tons. <sup>5</sup>Less than 500 hp.

## MANUFACTURES—INDUSTRY STATISTICS

Table 4.--SELECTED STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR THE UNITED STATES: 1954

(Value figures in thousands of dollars. For explanation of line captions see Introduction. Data which cannot be shown without disclosing information for individual companies have been combined with figures for other size classes. A (D) appears in the column where the figure has been omitted and the combined figure is underlined and shown in the size-class to the left)

Ind. code	Industry and item	Total, all estab-lish-ments	Establishments with an average of--									
			1-4 em- ployees	5-9 em- ployees	10-19 em- ployees	20-49 em- ployees	50-99 em- ployees	100-249 employees	250-499 employees	500-999 employees	1,000-2,499 employees	2,500 employees and over
2561	Window and door screens:											
	Number of establishments..	215	102	34	31	27	13	7	1	...	...	...
	Number of employees.....	4,405	245	249	424	828	957	<u>1,698</u>	(D)	...	...	...
2562	Window shades:											
	Number of establishments..	196	129	21	12	19	7	3	3	2	...	...
	Number of employees.....	4,368	295	140	157	587	528	<u>2,659</u>	(D)	(D)	...	...
2563	Venetian blinds:											
	Number of establishments..	916	535	186	108	71	9	4	2	...	1	...
	Number of employees.....	9,416	1,262	1,305	1,514	2,074	594	<u>2,664</u>	(D)	...	(D)	...
2591	Restaurant furniture:											
	Number of establishments..	163	65	28	30	26	8	3	3	...	...	...
	Number of employees.....	3,401	167	196	437	803	494	509	792	...	...	...
2599	Furniture & fixtures, n.e.c.:											
	Number of establishments..	52	24	11	6	4	6	1	...	...	...	...
	Number of employees.....	810	59	74	85	118	<u>474</u>	(D)	...	...	...	...
	Value added by manufacture	5,992	291	458	486	444	<u>4,312</u>	(D)	...	...	...	...

Note: Detailed figures may not add to the totals, because of independent rounding.

Table 5A.—INDUSTRY-PRODUCT ANALYSIS—SUMMARY OF INDUSTRY AND PRIMARY PRODUCT SHIPMENTS, SPECIALIZATION RATIOS AND COVERAGE RATIOS FOR THE UNITED STATES: 1954 AND 1947

Industry code	Industry and census year	Value of shipments					Value of primary products shipped			
		Total	Primary products	Secondary products	Miscellaneous receipts	Primary product specialization ratio <sup>1</sup>	Total (made in all industries)	Made in this industry	Made in other industries	Coverage ratio <sup>2</sup>
		(\$1,000) (A)	(\$1,000) (B)	(\$1,000) (C)	(\$1,000) (D)	Col. B Col. B+C (Percent) (E)	(\$1,000) (F)	(\$1,000) (G)	(\$1,000) (H)	Col. G Col. F (Percent) (I)
2561	Window and door screens.....1954...	70,877	50,297	18,404	2,176	73	78,402	50,297	28,105	64
	1947...	39,424	25,180	13,808	436	65	41,091	25,180	15,911	61
2562	Window shades.....1954...	64,110	54,131	9,489	490	85	69,725	54,131	15,594	78
	1947...	56,903	40,629	15,173	1,101	73	51,197	40,629	10,568	79
2563	Venetian blinds.....1954...	114,152	94,885	16,762	2,505	85	102,086	94,885	7,201	93
	1947...	83,660	78,390	3,058	2,212	96	85,411	78,390	7,021	92
2591	Restaurant furniture.....1954...	36,751	26,088	10,223	440	72	33,552	26,088	7,464	78
	1947...	26,192	22,451	3,502	239	87	32,738	22,451	10,287	69
2599	Furniture and fixtures, n.e.c.....1954...	11,075	9,037	1,874	164	83	14,688	9,037	5,651	61
	1947...	6,417	5,768	588	61	91	10,354	5,768	4,586	56

<sup>1</sup>The specialization ratio compares the given industry's shipments of its primary products to its total shipments of all products. (The primary products are listed in Tables 5B and 6A; the first 4-digits of the product code represent the industry code to which the product is primary.)

<sup>2</sup>The coverage ratio measures the extent to which the total shipments of products primary to the given industry are shipped by establishments classified in that industry.



## MANUFACTURES--INDUSTRY STATISTICS

Table 5B.--INDUSTRY-PRODUCT ANALYSIS--SHIPMENTS BY PRODUCT CLASS AND INDUSTRY, FOR THE UNITED STATES: 1954

(In thousands of dollars. The first column shows the total value of shipments of the specified industry divided among: (a) products classified in the industry (primary products), (b) products classified in other industries (secondary products) and (c) miscellaneous receipts. The value of shipments of the primary products of the specified industry reported by establishments not classified in that industry is shown under the caption "Other Industries." Industries accounting for significant amounts of the primary products listed are shown in separate columns provided that the figures for individual companies are not thereby disclosed. The last column shows the total value of shipments of the primary products of the industry by all manufacturing industries)

Prod. class code	Window and door screens industry	Window and door screens (S.I.C. 2561)		Other industries	All industries
25610	Total shipments and receipts of the industry.....	70,877		xxx	xxx
	Window and door screens, and weather strip.....	50,297		128,105	78,402
	Secondary products.....	18,404		xxx	xxx
	Miscellaneous receipts.....	2,176		xxx	xxx
2431- 34294 34423 34424	Millwork plants..... Builders' hardware..... Metal molding and trim and store fronts..... Metal storm and combination sash and doors..... All other products.....	2,469 2,393 2,370 2,020 9,152		xxx xxx xxx xxx xxx	xxx xxx xxx xxx xxx
Prod. class code	Window shade industry	Window shades (S.I.C. 2562)	Venetian blinds (S.I.C. 2563)	Other industries	All industries
25620	Total shipments and receipts of the industry.....	64,110	xxx	xxx	xxx
	Window shades, and accessories.....	54,131	9,014	6,580	69,725
	Secondary products.....	29,489	xxx	xxx	xxx
	Miscellaneous receipts.....	490	xxx	xxx	xxx
Prod. class code	Venetian blinds industry	Venetian blinds (S.I.C. 2563)		Other industries	All industries
25631 25632 25630  25620	Total shipments and receipts of the industry.....	114,152		xxx	xxx
	Primary products.....	94,885		7,201	102,086
	Metal-slat venetian blinds.....	57,089		3,583	60,672
	Venetian blinds, except metal slats.....	22,982		2,751	25,733
	Venetian blinds, not specified by kind.....	14,814		867	15,681
	Secondary products.....	16,762		xxx	xxx
	Window shades and accessories.....	9,014		xxx	xxx
	All other products.....	7,748		xxx	xxx
	Miscellaneous receipts.....	2,505		xxx	xxx
	Scrap and salable refuse..... Other.....	1,155 1,350		xxx xxx	xxx xxx
Prod. class code	Restaurant furniture industry	Restaurant furniture (S.I.C. 2591)		Other industries	All industries
25910	Total shipments and receipts of the industry.....	36,751		xxx	xxx
	Restaurant furniture (metal or wood).....	26,088		7,464	33,552
	Secondary products.....	10,223		xxx	xxx
	Miscellaneous receipts.....	440		xxx	xxx
Prod. class code	Furniture and fixtures, n.e.c., industry	Furniture and fixtures, n.e.c. (S.I.C. 2599)		Other industries	All industries
25990	Total shipments and receipts of the industry.....	11,075		xxx	xxx
	Other furniture and fixtures.....	9,037		5,651	14,688
	Secondary products.....	1,874		xxx	xxx
	Miscellaneous receipts.....	164		xxx	xxx

<sup>1</sup>Includes the following: \$16,870 thousand shipped by plants classified in Industry 2431, Millwork Plants, and \$5,667 thousand shipped by plants classified in Industry 3442, Metal Doors, Sash and Trim.

<sup>2</sup>Of this total, 59 percent consists of the following product classes: 22951, Pyroxylin-coated fabrics; 23910, Curtains and draperies, except lace.

SCREENS, SHADES, AND MISCELLANEOUS FURNITURE

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Table 6A.—QUANTITY AND VALUE OF PRODUCTS SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, FOR THE UNITED STATES: 1954 AND 1947

Product code	Product	Total shipments including interplant transfers					
		1954			1947		
		Quantity (1,000 units)	Value (\$1,000)	Square feet of blinds (1,000)	Quantity (1,000 units)	Value (\$1,000)	Square feet of blinds (1,000)
2561---	Windows and door screens, total.....	xxx	78,402	xxx	xxx	41,091	xxx
	Screen doors:						
2561011	Wood.....	2,280	11,659	xxx	1,727	7,530	xxx
2561015	Metal.....	(NA)	2,356	xxx			xxx
	Window screens:						
2561031	Wood:						
	Quantity reported.....	5,717	9,135	xxx	9,124	11,277	xxx
	Quantity not reported.....	xxx	1,308				
2561035	Metal.....	12,650	31,154	xxx	5,227	10,039	xxx
	Weatherstrip:						
2561051	Metal:						
	Quantity reported (Thousand linear feet).....	210,806	12,218	xxx	132,334	6,373	xxx
	Quantity not reported.....	xxx	2,201				
2561055	Other (Thousand linear feet).....	(NA)	1,813	xxx	37,918	727	xxx
2561098	Weatherstrip, quantity not reported.....	xxx	xxx	xxx	xxx	2,154	xxx
2561000	Screen doors, window screens, and weather strip, all materials, not specified by kind <sup>1</sup> .....	xxx	6,558	xxx	xxx	2,991	xxx
2562---	Window shades, total.....	xxx	69,725	xxx	xxx	51,197	xxx
2562011	Window shades and accessories.....	xxx	69,725	xxx	xxx	51,197	xxx
2563---	Venetian blinds, total.....	xxx	102,086	xxx	xxx	85,411	xxx
25631	Metal slat venetian blinds.....	xxx	60,672	xxx	11,678	61,049	159,083
2563111	Steel-slat blinds.....	12,582	30,952	169,955	7,465	37,697	100,387
2563151	Aluminum-slat blinds:						
	Quantity reported.....	3,126	15,231	56,844	4,213	23,352	58,696
	Quantity not reported.....	xxx	3,960				
2563100	Metal slat venetian blinds, not specified by kind.....	xxx	10,529	xxx	xxx	( <sup>2</sup> )	xxx
25632	Other venetian blinds, including unassembled blinds, and parts, and porch shades, except canvas.....	xxx	25,733	xxx	xxx	24,362	xxx
2563211	Wood-slat blinds.....	(NA)	2,332	(NA)	xxx	9,809	xxx
2563271	Unassembled venetian blinds, parts, and components.....	xxx	16,475	xxx			
2563281	Porch shades, except canvas.....	xxx	3,042	xxx			
2563231	Other venetian blinds, including unassembled blinds, and parts, and porch shades, except canvas.....						
2563251		xxx	1,403	xxx	xxx	( <sup>2</sup> )	xxx
2563298							
2563200	Other venetian blinds, including unassembled blinds, and parts, and porch shades, except canvas, not specified by kind.....	xxx	2,481	xxx			
2563000	Venetian blinds, not specified by kind <sup>1</sup> .....	xxx	15,681	xxx			
2591---	Restaurant furniture, total.....	xxx	33,552	xxx	xxx	32,738	xxx
	Chairs and stools:						
2591011	Wood:						
	Quantity reported.....	433	5,482	xxx	xxx	4,947	xxx
	Quantity not reported.....	xxx	954				
2591015	Metal.....	(NA)	4,631	xxx	xxx	7,265	xxx
	Tables:						
2591031	Wood.....	(NA)	2,114	xxx	xxx	2,411	xxx
2591035	Metal.....	(NA)	1,771	xxx	xxx	1,014	xxx
2591051	Booths.....	xxx	3,972	xxx	xxx	6,827	xxx
2591098	Other (tray stands, serving tables, etc.).....	xxx	6,426	xxx	xxx	6,474	xxx
2591000	Restaurant furniture, not specified by kind <sup>1</sup> .....	xxx	8,202	xxx	xxx	3,800	xxx
2599---	Furniture and fixtures, not elsewhere classified, total.....	xxx	14,688	xxx	xxx	10,354	xxx
2599011	Furniture and fixtures, n.e.c.....	xxx	14,688	xxx	xxx	10,354	xxx

xxx Not applicable.

NA Not available.

<sup>1</sup>Largely accounted for by small establishments that were not asked to report a breakdown of total shipments.

<sup>2</sup>Represents parts of \$14,553 thousand of venetian, and other blinds, and shades, not specified by type.

## MANUFACTURES--INDUSTRY STATISTICS

Table 6B.--VALUE OF PRODUCT CLASSES SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, BY DIVISIONS AND STATES FOR 1954, AND UNITED STATES TOTALS FOR EARLIER YEARS

(In thousands of dollars. Statistics are shown for selected product classes which are economically significant and production of which is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (Table 2) and they are not miscellaneous or "not specified by type" classes. For each product class, States are listed only if the value of shipments is more than \$1 million and the figure does not disclose individual company information. Additional States which had shipments of more than \$1 million of the individual product classes are listed in footnote 1)

Product class, region, and State <sup>1</sup>	Value of shipments	Product class, region, and State <sup>1</sup>	Value of shipments	Product class, region, and State <sup>1</sup>	Value of shipments
<u>Window and door screens and weather strip (25610)</u>		<u>Window and door screens and weather strip (25610)--Continued</u>		<u>Metal-slat venetian blinds (25631)</u>	
1954 United States, total.....	78,402			1954 United States, total.....	60,672
1947 United States, total.....	241,091	Mountain.....	874	1952 United States, total.....	100,444
1954		Pacific.....	11,191	1951 United States, total.....	110,023
New England.....	1,913	Washington.....	1,501	1950 United States, total.....	100,381
Connecticut.....	1,084	California.....	9,567	1947 United States, total.....	61,049
				1954	
Middle Atlantic.....	10,727	<u>Window shades and accessories (25620)</u>		New England.....	2,897
New York.....	4,390	1954 United States, total.....	69,725	Massachusetts.....	1,804
New Jersey.....	1,144	1947 United States, total.....	51,197	Middle Atlantic.....	17,277
Pennsylvania.....	5,192	1954		New York.....	8,273
		New England.....	2,726	New Jersey.....	2,466
East North Central.....	20,462	Rhode Island.....	1,604	Pennsylvania.....	6,538
Ohio.....	5,934	Middle Atlantic.....	17,938	East North Central.....	5,544
Illinois.....	8,595	New York.....	14,988	Ohio.....	1,609
Michigan.....	3,962	New Jersey.....	1,531	Illinois.....	2,463
Wisconsin.....	1,587	Pennsylvania.....	1,418	Michigan.....	1,120
West North Central.....	10,517	East North Central.....	35,506	West North Central.....	4,037
Minnesota.....	4,141	Ohio.....	4,783	Missouri.....	3,112
Iowa.....	1,880	Indiana.....	1,189	South Atlantic.....	17,190
Missouri.....	3,949	Illinois.....	10,301	Maryland.....	10,225
South Atlantic.....	9,554	Michigan.....	17,140	Virginia.....	1,428
South Carolina.....	1,045	Wisconsin.....	2,091	North Carolina.....	1,283
Georgia.....	1,300	West North Central.....	718	Georgia.....	1,482
Florida.....	4,952	South Atlantic.....	7,881	Florida.....	2,221
East South Central.....	4,458	Maryland.....	7,226	East South Central.....	1,624
Tennessee.....	2,338	East South Central.....	410	West South Central.....	6,154
Alabama.....	1,574	Mountain.....	303	Texas.....	4,747
West South Central.....	8,573	Pacific.....	3,591	Mountain.....	763
Oklahoma.....	3,411	California.....	3,228	Pacific.....	5,071
Texas.....	4,480			California.....	4,334

NOTE: The figures shown for 1950 to 1952 are sample estimates obtained from the Annual Survey of Manufactures for those years. Since the estimates are based on a sample they are subject to sampling variability, that is, they are not the same as figures which would have been obtained if complete censuses had been taken for those years. Measures of the sampling variability (standard errors) of the estimated total value of shipments of each product class are shown in the Annual Survey of Manufactures publications. Also shown are the standard errors of the relative change in shipments between some consecutive Annual Survey years which are the more significant measures when the series is studied for trend.

<sup>1</sup>For the specified product classes, shipments of over \$1 million were reported for the States listed but the exact figures are withheld to avoid disclosure of individual company figures: 25610, Virginia.

<sup>2</sup>Revised to exclude shipments of wood and metal doors and sash. See text on Industry 2561.



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Table 7.—MATERIALS CONSUMED, BY KIND: 1954 AND 1947

Code	Description of materials	Unit of measure	1954		1947	
			Quantity	Delivered cost	Quantity	Delivered cost
				(\$1,000)		(\$1,000)
INDUSTRY 2561—WINDOW AND DOOR SCREENS						
	Materials, parts, containers, and supplies, total.....		xxx	37,743	xxx	xxx
242125	Dressed lumber—soft wood.....	Thousand board feet.	24,912	3,423	xxx	xxx
335211	Aluminum and aluminum-base alloy mill shapes and forms.....	Thousand pounds.	21,961	10,139	xxx	xxx
970000	All other materials and components, parts, crates, containers and supplies consumed.....		xxx	16,730	xxx	xxx
971000	Materials etc., not specified by kind.....		xxx	7,451	xxx	xxx
INDUSTRY 2563—VENETIAN BLINDS						
	Materials and components, parts, containers, and supplies, total.....		xxx	63,891	xxx	xxx
	Carbon steel mill shapes and forms:					
331212	Sheet and strip.....	Short ton.	81,934	11,471	xxx	xxx
331219	All other carbon steel mill shapes and forms.....		xxx	562	xxx	xxx
331225	Alloy steel mill shapes and forms (except stainless).....		xxx	1,606	xxx	xxx
335211	Aluminum and aluminum-base alloy mill shapes and forms.....		xxx	7,851	xxx	xxx
970000	All other materials and components, parts, containers and supplies, consumed....		xxx	22,691	xxx	xxx
971000	Materials etc., not specified by kind.....		xxx	19,710	xxx	xxx
INDUSTRY 2591—RESTAURANT FURNITURE						
	Materials, parts, containers, and supplies, total.....		xxx	16,731	xxx	(NA)
242111	Rough and dressed lumber.....	Thousand board feet.	(NA)	985	14,590	(NA)
242115						
242121						
242125						
243211	Plywood, total.....		xxx	866	(NA)	(NA)
243213						
243215						
	Carbon steel mill shapes and forms:					
331212	Sheet and strip.....	Short ton.	(NA)	271	1,667	221
331219	All other carbon steel mill shapes and forms.....	...do....	1,709	510	1,722	263
331231	Stainless steel mill shapes and forms.....	...do....	2,874	1,195	(NA)	(NA)
335211	Aluminum and aluminum-base alloy mill shapes and forms.....	Thousand pounds.	243	120	(NA)	(NA)
970000	All other materials and components, parts, containers, and supplies, consumed....		xxx	7,914	xxx	(NA)
971000	Materials etc., not specified by kind.....		xxx	4,870	xxx	(NA)
INDUSTRY 2599—FURNITURE AND FIXTURES						
	Materials, parts, containers, and supplies, total.....		xxx	4,906	xxx	xxx
	Carbon steel mill shapes and forms:					
331212	Sheet and strip.....	Short ton.	11,411	1,427	xxx	xxx
331219	All other carbon steel mill shapes and forms.....	...do....	1,462	238	xxx	xxx
970000	All other materials and components, parts, containers, and supplies, consumed....		xxx	2,092	xxx	xxx
971000	Materials etc., not specified by kind.....		xxx	1,149	xxx	xxx

xxx Not applicable. NA Not available.

## MANUFACTURES—INDUSTRY STATISTICS

Table 8.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY INDUSTRY SPECIALIZATION AND PRIMARY PRODUCT CLASS SPECIALIZATION, FOR THE UNITED STATES: 1954

(This table presents selected statistics for establishments classified according to their degree of specialization in products primary to the industry. The establishments are classified in two ways: (1) by industry specialization—the degree of specialization in all primary products of the industry; and (2) by product-class specialization—the degree of specialization in the largest product class of the establishment. The degree of "industry specialization" for an establishment represents the ratio of its primary product shipments to its total product shipments, primary and secondary. The degree of "product-class specialization" for an establishment represents the ratio of its largest product class shipments to its total product shipments, primary and secondary. Data are not shown for some industries, product classes, and specialization ranges for a variety of reasons, consequently, detailed figures frequently do not add to the totals. See Introduction for detailed explanation)

Ind. or product class No.	Industry or product class by percent of specialization	Establishments, number	All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
2561	WINDOW AND DOOR SCREENS (entire industry).....	215	4,405	16,887	3,632	7,240	11,376	32,630	38,246	70,877
	Establishments with:									
	90% or more specialization.....	154	1,447	5,516	1,233	2,292	3,314	11,175	14,381	25,557
	75-89% specialization.....	14	723	2,802	550	1,119	1,858	4,818	5,285	10,103
	50-74% specialization.....	34	1,014	3,543	828	1,689	2,469	7,053	9,275	16,329
	All other <sup>1</sup> .....	13	1,220	5,025	1,020	2,139	3,734	9,583	9,304	18,888
2562	WINDOW SHADES (entire industry).....	196	4,368	15,580	3,404	6,746	10,648	29,604	34,506	64,110
	Establishments with:									
	90% or more specialization.....	137	2,736	9,716	2,218	4,349	7,009	19,685	18,545	38,231
	75-89% specialization.....	16	208	759	150	287	447	1,358	2,815	4,174
	50-74% specialization.....	32	1,235	4,587	885	1,769	2,796	7,816	12,075	19,892
	All other <sup>1</sup> .....	11	188	517	151	339	395	743	1,069	1,812
2563	VENETIAN BLINDS (entire industry).....	916	9,416	27,254	7,290	14,012	18,065	47,696	66,455	114,152
	Establishments with:									
	90% or more specialization.....	710	5,213	14,557	3,961	7,581	9,378	27,164	40,889	68,053
	75-89% specialization.....	63	1,028	3,206	825	1,617	2,129	5,327	6,444	11,772
	50-74% specialization.....	109	2,621	8,158	2,006	3,807	5,463	13,133	17,991	31,125
	All other <sup>1</sup> .....	34	552	1,332	497	1,007	1,093	2,071	1,130	3,202
25631	Metal-slat venetian blinds:									
	All establishments specializing in product class.	500	6,478	18,844	5,001	9,588	12,435	31,318	44,682	76,001
	Establishments with:									
	90% or more specialization.....	323	2,813	7,767	2,145	4,127	4,931	13,569	21,016	34,585
	75-89% specialization.....	62	601	1,648	444	811	1,068	2,602	3,623	6,226
	50-74% specialization.....	87	1,202	3,514	868	1,586	1,963	5,616	7,237	12,854
	Less than 50% specialization.....	28	1,861	5,915	1,544	3,063	4,472	9,530	12,804	22,335
25632	Other venetian blinds, except metal-slat:									
	All establishments specializing in product class.	84	1,007	3,307	772	1,482	2,141	7,049	10,341	17,391
	Establishments with:									
	90% or more specialization.....	51	566	1,942	438	855	1,292	4,147	7,583	11,731
	75-89% specialization.....	7	103	299	76	135	178	770	841	1,611
	50-74% specialization.....	11	220	660	170	321	439	1,430	1,048	2,479
	Less than 50% specialization.....	15	116	404	86	170	231	701	867	1,569
2591	RESTAURANT FURNITURE (entire industry).....	163	3,401	12,718	2,809	5,594	9,245	18,790	17,737	36,751
	Establishments with:									
	90% or more specialization.....	102	1,410	4,892	1,165	2,251	3,544	7,638	7,761	15,638
	75-89% specialization.....	16	236	998	202	407	782	1,240	945	2,186
	50-74% specialization.....	25	360	1,439	290	573	1,021	2,248	2,138	4,387
	All other <sup>1</sup> .....	20	1,394	5,389	1,151	2,362	3,895	7,662	6,891	14,539
2599	FURNITURE AND FIXTURES N.E.C. (entire industry).....	52	810	2,969	703	1,373	2,240	5,992	5,082	11,075
	Establishments with:									
	90% or more specialization.....	35	429	1,539	369	734	1,165	2,880	2,182	5,063
	75-89% specialization.....	5	81	288	75	147	234	445	430	876
	50-74% specialization.....	7	226	858	199	381	645	2,321	2,201	4,523
	All other <sup>1</sup> .....	5	73	282	58	109	195	344	268	613

<sup>1</sup>This class includes data for establishments with less than 50 percent specialization in the primary products of the industry and establishments engaged exclusively in contract work defined in the industry. Miscellaneous small statistical adjustments are also included.







## Major Group 26.—Pulp, Paper, and Products

This major group includes the manufacture of pulp primarily from wood, and from rags and other fibers; the conversion of these pulps into paper or board; and the manufacture of paper and paperboard into converted products such as coated paper, paper bags, paperboard boxes, and envelopes. Certain

types of converted paper products are classified in other major groups, such as abrasive paper in Industry 3291, Abrasive Products, carbon paper in Industry 3955, Carbon Paper and Inked Ribbons, and photosensitized and blueprint paper in Industry 3861, Photographic Equipment.

Table 1.—GENERAL STATISTICS FOR THE INDUSTRY GROUP: 1954 AND EARLIER YEARS

(For explanation of column captions, see Introduction)

Year <sup>1</sup>	Establishments, number	All employees <sup>2</sup>		Production workers			Value added by manufacture <sup>3</sup>	Capital expenditures, new	Horsepower of prime movers and electric motors <sup>4</sup>
		Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
1954 <sup>5</sup>	5,004	530,210	2,217,420	435,727	919,940	1,656,720	4,580,944	532,723	8,256
1953 <sup>6</sup>	(NA)	533,312	2,180,228	441,608	949,567	1,646,492	4,463,237	397,208	
1952 <sup>6</sup>	4,334	482,399	1,877,489	402,071	867,956	1,425,369	3,882,962	370,648	
1951 <sup>6</sup>	4,406	494,558	1,822,636	415,112	898,365	1,388,593	4,179,917	388,645	(NA)
1950 <sup>6</sup>	4,456	477,752	1,607,277	400,820	873,860	1,239,768	3,437,715	299,083	
1949 <sup>6</sup>	(NA)	447,230	1,419,675	377,070	801,198	1,083,398	2,777,231	315,285	
1947 <sup>7</sup>	4,100	454,075	1,294,535	391,715	857,344	1,018,339	2,913,197	406,779	4,131
1939	3,328	(NA)	(NA)	270,239		315,193	888,350	(NA)	
1937 <sup>7</sup>	3,084	(NA)	(NA)	266,944		310,137	862,866		
1935	2,945	266,857	313,309	235,665		235,725	635,840		(NA)
1933	2,697	220,619	219,038	196,380		172,842	518,096		
1931 <sup>8</sup>	2,917	(NA)	(NA)	197,088		216,821	606,357		
1929	2,973	258,306	372,638	228,919		281,461	782,043		(NA)
1927	2,851	245,666	343,706	218,296	(NA)	264,153	685,496		
1925	2,614	241,858	327,081	216,146		256,367	612,207		
1923	2,582	240,598	317,384	213,978		243,920	564,313		(NA)
1921	2,511	202,354	255,750	180,604		197,926	392,012		
1919	2,558	227,099	268,369	202,888		208,174	516,568		
1914	2,344	181,519	114,343	164,152		87,385	201,181		(NA)
1909	2,316	155,133	85,353	142,477		66,572	167,697		
1904	2,031	128,615	62,415	119,854		50,863	122,021		
1899	1,895	99,784	43,713	93,512		35,393	89,706		

NA Not available.

<sup>1</sup>In addition to data for operating establishments, manufacturers' central administrative offices and auxiliary units reported 10,382 employees with a payroll of \$67,967 thousand in 1954. Similar data are shown for the years 1949-1953 in the Annual Survey of Manufactures volumes. Data for these units are not available for the years prior to 1949.

<sup>2</sup>The figures for 1939 through 1954 include data for employees of manufacturing establishments who were engaged in distribution and construction work. The extent to which data for such employees are included in the figures for earlier years is not known.

<sup>3</sup>Value of products less cost of materials, supplies, fuel, electricity, and contract work. For 1899-1933, cost of contract work was not subtracted from value of products in calculating value added by manufacture.

<sup>4</sup>Driven by purchased energy.

<sup>5</sup>The figures for 1939-1954 include, whereas those for earlier years exclude, data for establishments primarily engaged in manufacture of printed paper patterns and laminated, enameled, hard pressed, and insulating wall boards of vegetable fiber. Value added by manufacture for 1939, excluding data for these establishments, was \$869.9 million. The comparability of the 1947-1954 figures with those for earlier years is further affected by the inclusion of data for establishments primarily engaged in manufacture of tags, which were formerly classified in the printing and publishing group.

<sup>6</sup>The figures for 1949-1953 represent estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period.

<sup>7</sup>The figures for 1937-1954 include, whereas those for earlier years exclude, data for establishments primarily engaged in manufacture of fiber products, fiber conduits, and molded pulp products. Value added by manufacture for 1937, excluding data for these establishments was \$852.7 million.

<sup>8</sup>The figures for 1931-1954 includes, whereas those for earlier years exclude, data for establishments primarily engaged in manufacture of papeteries. Value added by manufacture for 1931, excluding data for these establishments, was \$599.6 million.

## MANUFACTURES—INDUSTRY STATISTICS

U. S. DEPARTMENT OF COMMERCE, BUREAU OF ECONOMIC ANALYSIS, 1947 AND 1947

U. S. GOVERNMENT PRINTING OFFICE: 1947

Industry group, division, and State	Number of establishments	1946						1947		
		All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
		Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
Pulp, paper and products, (S.I.C. Group 26), total.	5,004	530,210	2,217,420	435,727	919,940	1,656,720	4,580,944	532,723	454,075	2,913,197
New England.....	61	70,377	281,969	58,131	125,423	210,131	518,324	71,243	69,345	397,013
Maine.....	1	17,398	71,628	15,009	33,283	58,000	150,000	42,083	16,544	103,156
New Hampshire.....	4	6,254	24,362	5,310	11,372	19,000	45,100	3,768	5,759	33,520
Vermont.....	21	2,031	8,362	1,643	3,656	5,000	15,000	902	2,653	19,744
Connecticut.....	367	134,621	27,781	59,211	96,000	237,000	19,945	34,868	190,680	8,467
Rhode Island.....	42	6,169	1,492	3,236	4,000	4,000	(2)	1,988	8,467	41,446
Middle Atlantic.....	1,757	128,136	532,009	105,061	221,574	447,000	986,417	72,518	121,055	730,316
New York.....	1,028	64,671	262,842	53,652	113,506	194,000	476,173	30,235	64,369	368,998
New Jersey.....	312	25,419	112,460	20,458	43,112	80,000	206,000	14,396	21,416	155,605
Pennsylvania.....	417	38,045	156,707	30,949	68,956	110,000	303,000	27,886	35,270	205,713
East North Central.....	1,159	138,108	601,473	113,100	239,566	447,000	1,146,876	87,281	122,989	776,060
Ohio.....	273	35,572	158,116	28,749	61,572	114,000	297,000	21,796	31,674	199,107
Indiana.....	4	9,483	37,816	7,564	15,394	26,000	67,400	5,361	9,020	55,788
Illinois.....	406	30,760	129,232	24,541	50,001	80,000	229,000	11,182	28,129	158,113
Michigan.....	185	29,168	132,100	24,417	52,502	103,000	236,100	26,705	26,022	174,319
Wisconsin.....	197	33,124	144,208	27,827	60,096	113,000	316,300	22,235	28,144	188,733
West North Central.....	255	30,866	129,711	20,000	48,808	80,000	285,300	20,786	25,815	166,555
Minnesota.....	81	15,428	71,226	10,750	23,157	44,000	173,000	11,189	13,697	103,693
Iowa.....	31	2,128	8,088	1,776	3,983	6,000	20,100	1,554	1,265	7,846
Missouri.....	114	10,996	40,758	8,917	17,782	28,000	71,200	6,861	9,104	41,250
Kansas.....	19	1,860	7,942	1,507	3,281	6,000	16,000	958	1,357	12,024
South Atlantic.....	393	63,025	240,000	52,168	109,535	189,000	630,000	135,555	46,076	312,508
Delaware.....	11	832	3,000	717	1,650	2,000	8,000	(2)	819	8,050
Maryland.....	61	7,642	28,000	6,324	13,478	21,000	53,000	5,242	5,537	25,332
Virginia.....	63	10,897	42,078	9,096	19,060	31,000	102,000	18,070	10,706	71,915
North Carolina.....	67	9,731	38,896	7,919	16,319	28,000	91,000	7,433	7,859	47,395
South Carolina.....	4	6,213	25,521	5,203	10,604	19,000	68,000	4,994	5,846	36,879
Georgia.....	13	13,803	55,265	11,269	23,803	40,000	155,000	73,377	7,319	54,207
Florida.....	11	11,622	47,512	9,667	20,532	38,000	139,000	25,260	5,696	55,777
East South Central.....	133	25,821	103,053	22,037	46,670	81,000	234,000	40,121	16,087	116,864
Alabama.....	23	1,134	4,200	910	1,961	2,000	7,000	1,326	743	4,695
Tennessee.....	1	7,925	31,677	6,532	14,044	23,000	64,516	27,497	4,817	35,807
Arkansas.....	31	8,668	35,002	7,495	15,809	28,000	77,000	6,663	5,700	39,899
Mississippi.....	20	8,094	32,173	7,098	14,855	26,700	85,735	4,634	4,827	36,463
West South Central.....	165	29,752	122,329	25,232	54,127	96,000	286,100	23,285	22,371	156,090
Arkansas.....	19	3,965	15,909	3,548	7,454	13,000	48,700	3,805	3,159	21,887
Louisiana.....	51	17,099	70,213	14,884	31,928	57,100	163,100	11,334	14,156	99,217
Texas.....	95	561	2,441	412	905	1,000	6,000	846	382	1,994
New Mexico.....	2	8,126	33,764	6,386	13,838	24,000	68,200	7,298	4,674	32,992
Mountain.....	28	1,000	6,495	1,284	2,659	4,000	17,000	2,928	782	4,758
Colorado.....	18	2,833	10,000	1,139	1,139	1,000	6,000	952	(D)	(D)
Pacific.....	70	10,000	35,398	35,398	71,575	150,000	468,300	79,003	29,555	253,033
Washington.....	1	13,671	27,366	13,671	27,366	60,000	100,000	52,879	12,876	137,670
Oregon.....	6	6,030	24,000	5,131	10,391	22,000	64,000	7,801	4,551	34,653
California.....	1	20,703	16,596	16,596	33,817	67,000	182,701	18,322	12,128	80,710
Pulp, paper and board (S.I.C. Group 261), total.....	432	216,255	974,866	183,039	401,498	777,832	2,289,344	370,539	197,893	1,462,813
New England.....	161	35,170	130,000	29,865	67,066	120,000	289,744	55,221	34,584	209,385
Maine.....	1	15,817	66,550	13,678	30,712	54,000	138,356	40,615	14,387	88,143
New Hampshire.....	24	3,836	15,050	3,282	7,170	12,900	28,691	2,795	3,749	21,723
Vermont.....	11	386	4,000	743	1,774	2,922	6,067	(2)	(D)	(D)
Connecticut.....	22	2,462	12,482	2,021	4,644	9,431	24,521	2,774	2,197	14,892
Middle Atlantic.....	228	36,510	167,614	30,862	69,277	133,428	312,807	37,661	37,546	259,759
New York.....	121	16,704	74,197	14,388	32,956	60,930	134,569	14,630	17,860	111,082
New Jersey.....	47	6,695	32,524	5,651	12,395	25,820	60,447	6,204	6,914	62,142
Pennsylvania.....	60	13,109	60,892	10,822	23,925	46,677	117,790	16,827	12,772	86,535
East North Central.....	221	47,383	219,100	40,227	89,466	175,490	471,231	45,103	48,739	341,271
Ohio.....	52	11,999	57,479	10,040	23,041	44,895	124,973	9,098	12,270	87,079
Indiana.....	15	1,939	8,174	1,610	3,503	6,388	17,682	836	2,574	16,071
Illinois.....	24	3,967	18,126	3,381	7,172	14,127	39,749	2,078	4,061	26,499
Michigan.....	1	10,675	51,741	9,121	20,961	42,478	97,829	17,453	11,856	88,102
Wisconsin.....	73	18,801	83,579	16,074	34,788	67,600	191,597	15,637	17,978	123,520
West North Central.....	31	7,277	34,226	6,175	14,373	27,308	78,863	6,439	6,350	52,977
Minnesota.....	20	6,358	30,207	5,371	12,613	24,009	68,492	5,923	5,487	44,428
Iowa.....	4	410	1,789	361	778	1,462	4,214	(2)	398	3,237

See footnotes at end of table.



## PULP, PAPER AND PRODUCTS

26-3

Table 2.—GENERAL STATISTICS FOR INDUSTRY GROUPS BY REGIONS AND STATES: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Industry group, region, and State <sup>1</sup>	1954							1947		
	Number of establish- ments	All employees		Production workers			Value added by manu- facture	Capital expendi- tures, new	All employees, number	Value added by manu- facture
		Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
Pulp, paper and board (S.I.C. Group 261)—Continued										
South Atlantic.....	107	34,806	152,333	28,674	61,282	118,248	449,652	115,501	28,464	218,920
Delaware.....	6	451	1,834	398	923	1,555	3,772	( <sup>2</sup> )	(D)	(D)
Maryland.....	9	2,510	10,513	2,102	4,571	8,277	20,001	2,455	2,950	13,000
Virginia.....	23	7,100	30,267	5,917	12,685	23,019	79,483	15,532	7,421	55,947
West Virginia.....	4	256	884	227	498	731	1,216	( <sup>2</sup> )	(D)	(D)
North Carolina.....	15	6,905	30,476	5,482	11,351	22,680	73,616	6,579	6,087	38,424
South Carolina.....	7	3,586	15,972	3,068	6,501	12,861	51,812	4,088	(D)	(D)
Georgia.....	21	6,597	29,548	5,275	11,345	22,034	107,529	67,723	2,917	31,398
Florida.....	22	7,399	32,837	6,203	13,405	27,090	112,222	18,751	4,792	48,303
East South Central.....	43	16,613	71,237	14,162	30,512	57,135	182,228	34,993	10,752	89,605
Tennessee.....	17	3,771	17,328	3,025	6,782	12,616	39,102	26,220	2,529	25,860
Alabama.....	15	5,421	23,844	4,606	9,997	19,330	60,436	4,327	3,546	27,961
Mississippi.....	11	7,420	30,064	6,530	13,732	25,188	82,689	4,445	4,677	35,784
West South Central.....	45	17,609	78,614	15,224	33,119	64,091	204,459	18,297	15,252	117,077
Louisiana.....	20	11,970	51,820	10,461	22,845	42,896	132,302	9,418	11,013	80,511
Texas.....	17	3,447	16,835	2,829	6,345	12,892	37,884	5,196	(D)	(D)
West.....	96	20,885	100,109	17,847	36,399	82,070	299,763	57,320	16,206	173,819
Washington.....	43	12,023	58,358	10,369	20,921	47,929	189,808	45,905	10,170	125,827
Oregon.....	23	4,510	21,098	3,857	7,824	17,386	52,863	7,061	3,558	27,801
Paper coating and glazing (S.I.C. Group 264), total <sup>3</sup> ..	277	27,697	123,991	20,017	42,091	80,101	282,067	15,240	22,269	165,580
Envelopes (S.I.C. Group 265), total <sup>3</sup> .....	196	15,902	63,044	13,019	26,517	43,516	101,430	6,942	13,797	68,253
Paper bags (S.I.C. Group 266), total <sup>3</sup> .....	381	33,326	121,116	27,773	56,227	89,530	211,688	18,901	22,230	119,074
Paperboard containers (S.I.C. Group 267), total.....	1,888	145,053	570,643	118,223	242,171	406,137	969,675	63,899	118,982	669,287
New England.....	226	14,765	53,208	12,318	25,379	38,488	89,101	4,018	13,091	65,438
Maine.....	13	370	938	312	599	702	1,821	( <sup>2</sup> )	(D)	(D)
Massachusetts.....	129	9,131	31,785	7,697	15,854	23,285	57,072	2,742	8,020	41,830
Rhode Island.....	23	1,046	2,987	900	1,851	2,118	4,465	( <sup>2</sup> )	1,396	5,088
Connecticut.....	53	4,002	16,811	3,219	6,695	11,826	24,610	896	3,389	17,666
Middle Atlantic.....	723	45,136	175,444	37,245	75,732	125,188	297,087	12,336	40,687	227,630
New York.....	383	20,862	80,842	17,374	35,110	58,297	134,158	4,958	21,005	112,600
New Jersey.....	140	10,886	45,543	8,757	18,136	31,357	77,448	3,098	8,164	53,017
Pennsylvania.....	200	13,387	49,057	11,113	22,485	35,533	85,481	4,280	11,518	62,013
East North Central.....	423	41,477	177,710	33,089	68,144	124,226	300,480	17,650	33,577	210,797
Ohio.....	110	11,913	51,955	9,533	19,832	36,080	82,727	7,005	10,501	62,252
Indiana.....	39	4,818	20,383	3,717	7,533	13,771	33,809	1,116	4,211	29,280
Illinois.....	167	13,830	57,667	11,067	22,399	40,224	100,152	4,741	11,467	68,331
Michigan.....	61	6,311	28,139	5,100	10,432	20,585	49,104	2,954	3,966	28,139
Wisconsin.....	46	4,604	19,565	3,671	7,946	13,563	34,685	1,832	3,432	22,795
West North Central.....	102	8,689	34,276	7,121	14,621	24,382	57,999	6,313	8,211	41,100
Minnesota.....	24	1,950	8,218	1,631	3,403	5,903	14,985	2,075	2,036	12,156
Iowa.....	15	788	2,839	658	1,391	2,204	6,068	( <sup>2</sup> )	704	3,724
Missouri.....	51	4,937	18,662	4,047	8,068	13,213	29,111	3,524	4,603	19,306
South Atlantic.....	158	14,456	49,760	11,865	24,309	35,296	84,612	10,571	9,905	51,398
Maryland.....	28	3,540	12,913	2,939	6,323	9,352	21,931	1,280	2,027	9,962
Virginia.....	20	1,201	3,588	961	1,897	2,643	6,840	1,293	964	5,271
West Virginia.....	12	687	2,246	601	1,191	1,767	3,764	( <sup>2</sup> )	734	3,266
North Carolina.....	38	2,431	6,978	2,120	4,283	5,195	14,861	608	1,527	7,931
South Carolina.....	13	2,095	7,790	1,716	3,144	5,398	10,818	( <sup>2</sup> )	(D)	(D)
Georgia.....	22	2,610	9,437	2,067	4,540	6,223	15,797	2,224	1,279	5,945
Florida.....	18	1,526	5,498	1,166	2,324	3,733	8,837	4,785	(D)	(D)
East South Central.....	53	4,351	14,117	3,625	7,245	9,737	22,001	2,286	2,512	11,394
Kentucky.....	13	611	2,644	473	1,004	1,597	4,013	1,183	(D)	(D)
Tennessee.....	28	2,463	7,773	2,070	4,240	5,654	13,570	771	1,679	7,147
West South Central.....	50	5,763	21,538	4,421	9,291	14,371	36,358	1,800	3,835	20,334
Arkansas.....	4	153	469	132	263	317	766	( <sup>2</sup> )	(D)	(D)
Texas.....	28	2,777	10,370	2,063	4,362	6,645	16,782	961	1,909	9,018
Mountain.....	13	500	1,774	400	804	1,234	3,608	( <sup>2</sup> )	523	2,852
Pacific.....	140	9,913	42,813	8,135	16,643	33,212	78,427	8,442	6,641	38,344
Washington.....	12	1,342	5,513	1,151	2,264	4,600	13,049	709	1,306	6,207
Oregon.....	7	329	1,301	275	553	1,031	2,404	( <sup>2</sup> )	273	1,459
California.....	121	8,240	35,998	6,709	13,825	27,580	62,973	7,620	5,062	30,673

See footnotes at end of table.

## MANUFACTURES—INDUSTRY STATISTICS

Table 2.—GENERAL STATISTICS FOR INDUSTRY GROUPS BY REGIONS AND STATES: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Industry group, region, and State <sup>1</sup>	1954								1947	
	Number of establish- ments	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
		Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
Pulp, paper and products, n.e.c. (S.I.C. Group 269), total.....	1,330	91,974	363,760	73,654	151,434	259,602	726,732	57,201	78,904	428,190
New England.....	168	12,102	45,799	9,117	18,829	29,338	87,899	9,258	13,351	75,763
Maine.....	4	1,027	3,478	855	1,646	2,721	9,466	1,298	(D)	(D)
New Hampshire.....	15	1,117	3,624	1,030	2,037	3,208	6,173	( <sup>2</sup> )	(D)	(D)
Massachusetts.....	115	7,400	29,080	5,296	11,206	17,183	56,526	6,814	8,599	49,317
Connecticut.....	22	1,529	5,627	1,153	2,377	3,776	8,674	( <sup>2</sup> )	(D)	(D)
Middle Atlantic.....	514	32,012	129,406	25,451	52,588	90,884	248,293	14,154	29,860	166,077
New York.....	333	19,193	76,006	15,473	31,863	54,002	151,169	6,919	18,183	105,026
New Jersey.....	82	4,502	19,519	3,582	7,295	14,121	36,131	1,510	4,016	21,347
Pennsylvania.....	99	8,316	33,881	6,395	13,430	22,760	60,992	5,724	7,661	39,704
East North Central.....	322	28,253	116,033	22,826	46,682	84,204	221,992	(D)	24,725	130,789
Ohio.....	54	4,021	15,438	3,091	6,039	9,831	29,947	(D)	3,480	16,397
Indiana.....	30	1,438	5,099	1,142	2,229	3,468	9,594	(D)	(D)	(D)
Illinois.....	134	7,059	28,060	5,498	11,128	18,361	45,516	2,710	8,779	40,940
Michigan.....	50	8,511	36,858	7,025	14,311	28,450	67,586	3,501	(D)	(D)
Wisconsin.....	54	7,223	30,577	6,067	12,973	24,092	69,347	3,283	4,435	28,079
West North Central.....	67	4,431	14,852	3,691	7,412	10,950	34,771	(D)	3,367	14,740
Iowa.....	6	207	700	175	359	541	2,575	( <sup>2</sup> )	(D)	(D)
Missouri.....	33	2,707	8,848	2,238	4,454	6,392	21,620	(D)	2,074	7,262
South.....	108	8,026	29,205	6,666	14,224	21,892	74,597	5,353	4,275	22,669
Maryland.....	14	1,167	3,777	934	1,866	2,653	8,304	1,232	231	627
Virginia.....	7	790	2,562	699	1,403	2,083	5,010	( <sup>2</sup> )	1,299	5,513
North Carolina.....	9	244	898	197	460	610	1,989	( <sup>2</sup> )	(D)	(D)
Georgia.....	10	1,234	4,522	1,004	2,171	2,960	12,333	899	(D)	(D)
Florida.....	12	311	1,020	248	513	721	1,649	( <sup>2</sup> )	(D)	(D)
Tennessee.....	8	1,447	5,692	1,268	2,656	4,636	9,990	(D)	(D)	(D)
Louisiana.....	6	306	1,180	247	530	813	2,963	( <sup>2</sup> )	(D)	(D)
Mountain.....	8	77	305	56	100	164	521	(D)	(D)	(D)
Pacific.....	143	7,069	28,158	5,845	11,595	22,168	58,657	10,891	(D)	(D)
Washington.....	13	1,485	5,986	1,312	2,600	4,977	10,962	(D)	(D)	(D)
Oregon.....	13	730	2,986	633	1,284	2,481	5,873	( <sup>2</sup> )	(D)	(D)
California.....	117	4,853	19,185	3,898	7,711	14,708	41,821	(D)	2,108	13,335

NOTE: Detailed figures may not add to the totals because of independent rounding.

<sup>1</sup> Withheld to avoid disclosing figures for individual companies.<sup>2</sup> Each producing state not shown separately has been withheld either (a) to avoid disclosing figures for individual companies; or (b) because the state had less than 100 employees in the industry group. Such state figures are included, however, in the appropriate regional and United States totals.<sup>3</sup> Less than \$500 thousand.<sup>4</sup> This industry sub-group consists of a single four-digit industry. Detailed data by state are included in the four-digit industry tables.

## PULP, PAPER AND PRODUCTS

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Table 3.--DETAILED STATISTICS FOR THE INDUSTRY GROUP: 1954

(For explanation of line captions see Introduction)

Item	Major industry group 26	Item	Major industry group 26
Number of establishments, total.....	5,004	Cost and quantity of purchased fuel and electricity--Con.	
With 1-19 employees.....	1,827	Electric energy:	
With 20-99 employees.....	1,761	Purchased:	
With 100 employees and over.....	1,416	Quantity.....million kwh..	10,852
All employees:		Cost.....\$1,000..	91,452
Number (average for year).....	530,210	Generated.....million kwh..	14,183
Payroll.....\$1,000..	2,217,420	Sold:	
Production workers:		Quantity.....do....	1,496
Number (average for year).....	435,727	Value.....\$1,000..	13,836
Man-hours.....1,000..	919,940	Manufacturers' inventories:	
Wages.....\$1,000..	1,656,720	Beginning of year, total.....do....	1,089,375
Value added by manufacture.....do....	4,580,944	Finished products.....do....	277,624
Value added by resales.....do....	24,847	Work-in-process.....do....	100,628
Number of employees for selected months:		Materials, supplies, fuel, etc.....do....	711,118
March.....	526,175	End of year, total.....do....	1,090,879
May.....	525,757	Finished products.....do....	298,742
August.....	530,332	Work-in-process.....do....	103,872
November.....	538,555	Materials, supplies, fuel, etc.....do....	688,263
Cost and quantity of purchased fuel and electricity:		Expenditures for plant and equipment:	
Fuels consumed, total cost.....\$1,000..	220,036	Capital expenditures, new.....do....	532,723
Bituminous coal and anthracite:		New structures and additions to plant.....do....	129,799
Quantity.....1,000 short tons..	12,572	New machinery and equipment.....do....	402,924
Value.....\$1,000..	104,088	Expenditures for used plant and equipment.....do....	11,429
Coke:		Horsepower rating of power equipment at end of 1954:	
Quantity.....1,000 short tons..	12	Total horsepower of prime movers and electric	
Value.....\$1,000..	223	motors driven by purchased energy.....1,000 hp..	8,256
Fuel oil:		Engines, etc., driving electric generators.....do....	3,529
Quantity.....1,000 barrels..	22,472	Engines, etc., not driving electric	
Value.....\$1,000..	57,489	generators.....do....	710
Gas:		Electric motors driven by purchased energy.....do....	4,017
Quantity.....million cubic feet..	116,604	Electric motors driven by energy generated at the	
Value.....\$1,000..	24,839	establishment.....do....	3,842
Other fuels:			
Value.....do....	33,397		

Note: Detailed figures may not add to totals because of independent rounding.





# Pulp, Paper, and Paperboard

This report shows 1954 Census of Manufactures statistics for establishments classified into each of the following industries:

Code	Title
2611--	Pulp Mills
2612--	Paper and Paperboard Mills
2613--	Building Paper and Board Mills

There is a high degree of integration between the Pulp Industry, the Paper and Paperboard Industry, and the Building Paper and Building Board Industry. Pulp produced in the pulp mill becomes the material consumed at the Paper and Paperboard or Building Paper and Building Board Industries. However, there is no duplication occasioned by movement of products within the same industry.

In the three industries included in this report, there is a high degree of specialization in the production of the products of the particular industry with only a negligible amount of the products of these industries produced in other industries. This results from obtaining separate establishment reports for (1) pulp, (2) paper and paperboard, and (3) converted paper and board products activities in integrated operations in the 1954 Census of Manufactures. Hence, an integrated pulp, paper, or board and converting operation carried on at the same location is reported on three separate establishment reports, and included with the data in all general statistics tables for the appropriate industry.

In an effort to develop meaningful statistics, conferences were held with representatives of these industries to establish general guides for adjusting company data where separate departmental records in an integrated operation were not maintained.

Alternative methods of assigning values of interplant transfers were suggested in special instructions to the companies as follows:

"For the value of pulp, paper or board transferred to other establishments of your company, at this site or any other location, report an estimated value based upon market value minus costs of services not performed, such as transportation, drying, wrapping, etc., or if representative market values are not available, upon 'costs.' If 'costs' are used, the value should cover the cost of pulpwood, woodpulp, waste-paper, chemicals, other mill supplies, fuel, electric energy, and direct labor applicable to the operation, together with a reasonable proportion of the indirect labor costs, overhead costs and company profits or losses reasonably assignable to the producing establishment."

The 1954 Census experience indicates that company records often do not reflect detailed departmental operating data, and the assignment of "transfer" values on a uniform basis throughout industry was virtually impossible. Hence, it was necessary for a significant amount of the operating data to be prorated, more particularly in the transfer values assigned which affects both the value of shipments of the establishment transferring the products to the establishment further processing it within the company and the "Cost of Materials" data in the latter establishment. These adjustments were made after it was apparent by examining relationships on the basis of market values or costs of production, that the value added by manufacture would be credited disproportionately to the several departments involved. Where possible, assistance from the companies was obtained in making these adjustments, but to a significant degree, adjustments were made by Census based on average relationships for the industries affected. To the extent that such adjustments did not reflect actual relationships for such establishments the validity of the data would be affected.

Reconciliation of Census of Manufactures data cannot be made on an exact basis with other Government agencies, such as the Bureau of Labor Statistics and Bureau of Old Age Survivors Insurance, because of complete departmental reporting only to

Census on the pulp, paper, and board, and converting operations at integrated single locations.

Data on the consumption of the basic raw materials permit tracing the flow of materials through the several levels of operations. For the Pulp Mills (2611), Table 7A shows the consumption of the important species of pulpwood, and of chemicals; Table 7B shows pulpwood consumption by species of wood on a geographic basis, and Table 7C shows pulpwood consumption by pulping process. For the Paper and Paperboard (2612) and Building Paper and Board (2613) Industries, Table 7A shows the consumption of wood pulp as between own company produced and market (purchased); Table 7D shows the consumption of wood pulp, waste paper and other fibrous materials on a geographic basis; and Table 7E shows consumption of these materials by grade of wood pulp in the production of each major grade of paper and board.

## 2611--Pulp Mills

Industry 2611, Pulp Mills, comprises establishments primarily engaged in the manufacture of pulp made from pulpwood (including slabs, chips and mill wastes), and other fibrous materials such as linters, waste paper, straw, and rags.

All wood pulping operations are included in Industry 2611, Pulp Mills. However, pulp operations of establishments primarily making paper or board in a continuous process from waste paper, rags, straw, and other fibrous materials except pulpwood are not included in Industry 2611 but are included in the industry in which the paper or paperboard produced is classified (Industries 2612 or 2613).

Logging operations conducted as part of the pulp mill activity and not separately reported are included in this industry. Separately reported establishments, primarily engaged in cutting pulpwood, are classified in Industry 2411, Logging Camps and Logging Contractors. Operating data for pulpwood cutting by farmers or others as a part time activity are generally not included in any manufacturing industry. For a detailed list of primary products of Industry 2611 refer to Table 6A, product codes 2611111 to 2611971.

The value of shipments of Industry 2611, Pulp Mills, in 1954 totaled \$1,577 million. This included shipments of primary products (pulp and byproducts), valued at \$1,564 million, shipments of secondary products valued at \$12 million, and a negligible amount of miscellaneous receipts.

Industry 2611 shipments of primary products in 1954 represented 99 percent of its total product shipments (primary and secondary). In 1947, this primary product specialization ratio was also 99 percent. Secondary products shipped by this industry in 1954 consisted mainly of inorganic chemicals, \$7 million.

Industry 2611 shipments of primary products in 1954 represented virtually all of these products valued at \$1,565 million shipped by all industries. This coverage ratio was also 100 percent in 1947.

2612--Paper and Paperboard Mills (Full Standard Industrial Classification Title: Paper and Paperboard Mills, Except Building-Paper and Building-Board Mills)

Industry 2612, Paper and Paperboard Mills, comprises establishments primarily engaged in manufacturing paper and paperboard, except building board and building paper, from woodpulp and other fibers. It also includes establishments reducing waste paper, linters, straw, and other non-wood fibers to pulp as part of a continuous process producing paper and paperboard. For a detailed list of products of Industry 2612 refer to Table 6A, product codes 2612111 to 2612971.

The value of shipments of Industry 2612, Paper and Paperboard Mills, in 1954 totaled \$3,793 million. This included shipments of primary products (paper and paperboard), valued at

\$3,758 million, shipments of secondary products valued at \$26 million, and miscellaneous receipts (mainly contract work on materials owned by others) of \$9 million.

Industry 2612 shipments of primary products in 1954 represented 99 percent of its total product shipments (primary and secondary). Secondary products shipped in this industry in 1954 consisted mainly of building paper and building board at \$8 million.

Industry 2612 shipments of primary products in 1954 represented virtually all of these products valued at \$3,770 million shipped by all industries. Other industries shipping paper and paperboard, consisted mainly of Industry 2613, building paper and building board mills.

For 1947, data for Industry 2612, Paper and Paperboard Mills, and Industry 2613, Building Paper and Board Mills, were combined and shown under the title "Paper and Board Mills." All data for 1947, except the primary product specialization ratio and the coverage ratio data have been retabulated on a comparable basis with 1954. It is believed that the 1947 ratios approximate those shown for these industries in 1954 and which appear in Table 5B.

2613--Building Paper and Board Mills (Full Standard Industrial Classification Title: Building-Paper and Building-Board Mills)

Industry 2613, Building Paper and Board Mills, comprises establishments primarily engaged in manufacturing building paper and building board, from woodpulp and other fibrous materials. It also includes establishments reducing waste paper, linters, straw, and other non-wood fibers to pulp as part of a continuous process producing building paper and building board. For a detailed list of products of this industry refer to Table 6A, product codes 2613111 to 2613265.

The value of shipments of Industry 2613, Building Paper and Board Mills, in 1954 totaled \$305 million. This included shipments of primary products (building paper and board), valued at \$298 million, shipments of secondary products valued at \$7 million, and a negligible amount of miscellaneous receipts.

Industry 2613 shipments of primary products in 1954 represented 98 percent of its total product shipments (primary and secondary). Secondary products shipped by this industry in 1954 consisted mainly of paper and paperboard.

Industry 2613 shipments of primary products in 1954 represented 97 percent of these products valued at \$308 million shipped by all industries.

The general statistics (employment, payrolls, value of shipments, cost of materials, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products, and, for that matter, their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (Tables 1-4) with product statistics (Table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in Table 5A which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry made as secondary products by establishments classified in other industries.



Table 1.—GENERAL STATISTICS FOR THE UNITED STATES: 1954 AND EARLIER YEARS  
(For explanation of column captions see Introduction)

Industry and census year	Establish- ments, number	All employees		Production workers		Value added by manufacture <sup>2</sup>	Cost of materials, etc.	Value of shipments <sup>3</sup>
		Number <sup>1</sup>	Payroll (\$1,000)	Number <sup>1</sup>	Wages (\$1,000)			
Pulp mills (S.I.C. 2611):								
1954.....	252	57,672	256,622	48,896	207,188	704,274	873,017	1,577,291
1953 <sup>4</sup> .....	(NA)	55,073	236,456	47,154	193,072	617,985	852,878	1,470,863
1952 <sup>4</sup> .....	(NA)	54,543	227,448	46,461	185,439	564,985	799,746	1,364,731
1951 <sup>4</sup> .....	(NA)	54,144	208,179	46,750	170,545	564,642	807,014	1,371,656
1950 <sup>4</sup> .....	(NA)	48,017	170,727	41,734	141,392	444,305	576,430	1,020,735
1949 <sup>4</sup> .....	(NA)	46,408	152,315	40,663	127,876	336,424	493,574	829,998
1947.....	226	50,290	148,125	45,412	127,452	415,938	523,666	939,604
1939.....	194	30,613	40,866	26,870	33,088	82,115	144,737	226,852
1937.....	194	29,147	38,721	26,994	33,570	93,540	153,652	247,192
1935.....	188	25,698	28,227	23,627	23,401	71,030	96,178	167,208
1933.....	181	21,647	21,396	20,074	18,103	52,796	81,896	134,692
1931.....	198	(NA)	(NA)	20,219	22,844	55,891	110,668	166,559
1929.....	198	26,614	38,524	24,729	32,679	90,175	148,753	238,928
1927 <sup>5</sup> .....	219	26,889	37,491	24,794	31,527	66,873	151,325	218,198
Paper and paperboard mills (S.I.C. 2612):								
1954.....	589	142,191	648,972	119,859	513,108	1,429,659	2,363,150	3,792,810
1947 <sup>6</sup> <sup>7</sup> .....	593	134,202	420,994	116,675	348,138	947,868	1,641,246	2,589,114
Building paper and board mills (S.I.C. 2613):								
1954.....	91	16,391	69,271	14,284	57,536	155,415	149,884	305,302
1947 <sup>6</sup> <sup>7</sup> .....	71	13,401	38,467	11,793	32,590	99,007	116,342	215,349
Total for paper and paperboard mills and building paper and board mills) <sup>6</sup>								
1954.....	680	158,582	718,243	134,143	570,644	1,585,074	2,513,034	4,098,112
1953 <sup>4</sup> .....	(NA)	161,988	717,265	137,466	575,065	1,556,905	2,511,878	4,068,783
1952 <sup>4</sup> .....	(NA)	149,041	621,202	127,361	500,493	1,423,449	2,268,067	3,691,516
1951 <sup>4</sup> .....	(NA)	152,520	619,147	130,808	499,684	1,558,889	2,498,698	4,057,587
1950 <sup>4</sup> .....	(NA)	150,041	554,198	129,855	449,879	1,307,071	1,903,329	3,210,400
1949 <sup>4</sup> .....	(NA)	145,441	491,770	124,954	396,610	1,041,681	1,590,567	2,632,248
1947 <sup>7</sup> .....	664	147,603	459,461	128,468	380,728	1,046,875	1,757,588	2,804,463

NA Not Available.

<sup>1</sup>The number of "All employees" and the number of "production and related workers" were obtained as follows: For the period 1949-1954, figures are based on employment for the payroll periods ended nearest the 15th of March, May, August and November. For 1947, they represent the average of 12 monthly figures. For earlier years, the production worker average was calculated as in 1947, but the figure for all employees represents the sum of the annual average number of production workers and the number of nonproduction workers reported for one payroll period (usually in October).

<sup>2</sup>Value of products less cost of materials, supplies, fuel, electric energy and contract work. See Introduction, "Value Added by Manufacture."

<sup>3</sup>For 1947-1954, value of shipments; for all other years, value of production. See Introduction, "Value of Shipments."

<sup>4</sup>The figures for 1949-1953 represent estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period. Estimates with a standard error in excess of 15 percent generally have been omitted from this table.

<sup>5</sup>"Pulp mills" and "Paper and board mills" formerly constituted a single classification, "Paper and wood pulp." Separate figures are, therefore, not available for years prior to 1927.

<sup>6</sup>Industries 2612 and 2613 were treated as one industry in the 1947 Census. The 1947 data shown in this table for each of these industries were obtained by retabulating the 1947 returns. Similar retabulations were not made for the period 1949-1953. In order to show statistics for the entire period 1947-1954, industries 2612 and 2613 are also shown in combination.

<sup>7</sup>Data for earlier years not shown due to a lack of comparability caused by a change in method of reporting converting operations of these mills.

## MANUFACTURES—INDUSTRY STATISTICS

Table 2.—GENERAL STATISTICS BY REGIONS AND STATES: 1954 AND 1947  
(For explanation of column captions see Introduction)

Industry, region, and State <sup>1</sup>	1954										1947		
	Establishments, number		All employees		Production workers			Value added by manufacture	Cost of materials, etc.	Value of shipments	Capital expenditures, new	All employees, number	Value added by manufacture
	Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)		(\$1,000)
Pulp mills (S.I.C. 2611), total.....	252	212	57,672	256,622	48,896	105,252	207,188	704,274	873,017	1,577,291	148,475	50,290	415,938
New England.....	30	28	6,258	26,026	5,377	12,200	21,553	49,791	91,869	141,661	20,204	6,588	36,829
Middle Atlantic.....	45	27	4,771	19,996	4,214	9,252	16,806	32,581	58,539	91,121	9,126	5,434	28,174
New York.....	29	17	2,440	10,020	2,214	5,005	8,764	15,810	32,084	47,894	2,419	3,061	17,081
New Jersey.....	6	2	107	461	96	187	401	1,480	1,681	3,161	59	106	1,178
Pennsylvania.....	10	8	2,224	9,515	1,904	4,060	7,641	15,291	24,774	40,066	6,647	2,267	9,915
East North Central.....	48	39	6,400	27,251	5,568	11,636	22,670	49,015	92,011	141,027	3,961	6,575	37,617
Ohio.....	4	3	249	1,027	224	498	875	3,859	3,799	7,658	(D)	368	2,529
Wisconsin.....	28	26	5,184	21,809	4,537	9,359	18,413	36,640	72,391	109,032	3,171	4,852	27,328
West North Central.....	10	10	1,413	6,565	1,195	2,783	5,208	15,726	23,066	38,793	1,519	1,354	11,561
South Atlantic.....	42	39	16,202	72,101	13,300	28,573	56,513	220,846	263,228	484,074	62,217	12,847	92,369
East South Central.....	21	20	7,051	31,220	5,955	12,975	24,906	89,446	92,227	181,673	18,099	4,283	47,689
Tennessee.....	7	7	1,679	7,385	1,294	2,889	5,089	18,344	21,203	39,547	12,339	1,142	15,805
Alabama.....	8	7	2,609	12,034	2,162	4,739	9,558	30,806	30,779	61,586	2,822	1,307	12,690
Mississippi.....	6	6	2,763	11,801	2,499	5,347	10,259	40,296	40,244	80,540	2,938	1,834	19,194
West South Central.....	15	13	6,272	27,482	5,321	11,602	21,926	81,524	88,584	170,108	9,089	5,570	49,558
West.....	41	36	9,304	45,979	7,965	16,228	37,604	165,343	163,489	328,832	24,258	7,639	112,141
Washington.....	23	22	7,099	35,399	6,056	12,308	28,776	131,251	125,009	256,260	18,604	6,288	95,169
Oregon.....	11	11	1,630	7,845	1,405	2,878	6,504	21,908	24,362	46,270	4,378	1,310	16,585
Paper and paperboard mills (S.I.C. 2612), total.....	589	574	142,191	648,972	119,859	265,871	513,108	1,429,659	2,363,150	3,792,810	213,050	134,202	947,868
Northeast.....	294	286	57,963	261,031	48,886	110,038	205,373	497,702	751,834	1,249,537	61,608	57,288	383,693
Maine.....	19	19	11,122	47,066	9,570	21,253	38,259	97,183	157,417	254,600	22,497	9,232	60,219
Massachusetts.....	59	58	11,753	51,667	9,776	21,905	39,180	89,107	106,573	195,680	8,064	12,973	72,390
New York.....	87	83	13,514	60,884	11,569	26,674	49,619	112,291	186,180	298,472	11,704	13,862	86,652
Pennsylvania.....	46	43	10,459	49,648	8,548	19,095	37,567	99,181	162,768	261,949	10,025	10,225	73,910
East North Central.....	157	153	39,643	185,865	33,499	75,342	147,912	410,054	561,317	971,372	40,460	40,570	290,723
Ohio.....	43	43	11,244	54,157	9,386	21,546	42,220	116,040	124,951	240,992	8,825	11,515	78,387
Illinois.....	14	14	3,084	14,203	2,607	5,592	10,828	30,844	33,916	64,760	1,543	2,857	19,821
Wisconsin.....	45	45	13,617	61,770	11,537	25,429	49,187	154,956	225,482	380,438	12,466	13,126	96,192
West North Central.....	12	12	3,665	17,485	2,986	6,870	13,468	39,204	52,773	91,977	3,399	3,528	27,870
Minnesota.....	7	7	3,010	14,554	2,413	5,595	11,066	31,045	45,625	76,671	3,054	2,812	20,423
South Atlantic.....	57	55	17,306	74,968	14,270	30,449	57,520	215,222	451,642	666,864	52,213	14,696	119,901
Delaware.....	6	6	451	1,834	398	923	1,555	3,772	6,511	10,284	309	464	4,672
Virginia.....	13	13	3,491	14,582	2,883	6,263	11,000	36,456	80,334	116,791	7,666	2,888	30,474
West Virginia.....	4	4	256	885	227	498	731	1,216	2,209	3,425	62	(D)	(D)
North Carolina.....	8	8	4,207	18,432	3,421	6,995	13,809	46,111	58,759	104,870	1,466	4,320	26,833
Georgia.....	9	8	2,422	10,283	1,932	4,021	7,340	42,923	94,256	137,179	(D)	1,259	(D)
Florida.....	8	8	2,780	12,789	2,296	5,051	10,422	44,541	120,514	165,056	6,171	1,710	23,100
East South Central.....	14	14	5,438	24,817	4,599	10,100	19,633	56,404	108,927	165,331	15,666	3,763	23,416
West South Central.....	17	17	8,231	37,807	7,131	15,635	30,631	90,504	202,895	293,399	7,662	6,601	45,642
Louisiana.....	8	8	4,842	21,656	4,275	9,495	17,984	49,302	131,804	181,106	3,733	4,134	26,871
Texas.....	5	5	2,156	10,612	1,766	3,968	8,024	21,254	34,632	55,886	2,369	1,414	10,462
West.....	38	37	9,944	46,998	8,487	17,436	38,570	120,567	233,761	354,328	32,041	7,756	56,623
Oregon.....	6	6	2,287	10,810	1,964	3,995	8,937	26,352	50,138	76,491	2,008	2,010	9,587
California.....	13	12	2,358	11,234	1,891	4,022	8,815	29,523	42,885	72,408	1,161	(D)	(D)
Building paper and board mills (S.I.C. 2613), total.....	91	84	16,391	69,271	14,284	30,374	57,536	155,415	149,884	305,302	9,013	13,401	99,007
Northeast.....	20	19	2,688	12,191	2,250	4,853	9,755	22,475	27,371	49,847	1,944	2,820	20,448
New York.....	5	5	749	3,292	604	1,275	2,546	6,468	6,290	12,758	506	937	7,349
Pennsylvania.....	4	4	426	1,729	370	770	1,469	3,317	4,232	7,550	154	280	2,710

See footnotes at end of table.

## PULP, PAPER, AND PAPERBOARD

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Table 2.--GENERAL STATISTICS BY REGIONS AND STATES: 1954 and 1947--Continued  
(For explanation of column captions see Introduction)

Industry, region, and State <sup>1</sup>	1954										1947		
	Establishments, number		All employees		Production workers			Value added by manufacture  (\$1,000)	Cost of materials, etc.  (\$1,000)	Value of shipments  (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture  (\$1,000)
	Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
Building paper and board mills—Con.													
East North Central.....	16	16	1,339	5,984	1,160	2,488	4,908	12,761	17,562	30,323	682	1,594	12,931
Ohio.....	5	5	505	2,294	429	996	1,799	5,073	6,779	11,853	(D)	387	6,163
West North Central.....	9	8	2,199	10,176	1,996	4,720	8,632	23,932	27,186	51,118	1,521	1,468	13,546
South Atlantic.....	8	8	1,298	5,264	1,103	2,259	4,215	13,584	17,188	30,774	1,070	921	6,650
East South Central.....	8	8	4,124	15,200	3,608	7,437	12,596	36,377	30,994	67,371	1,228	2,706	18,500
West South Central.....	13	11	3,105	13,324	2,771	5,881	11,533	32,430	12,830	45,261	1,546	3,081	21,877
Pacific.....	17	14	1,637	7,131	1,395	2,735	5,896	13,853	16,752	30,606	1,020	805	5,039
Oregon.....	6	6	593	2,443	488	951	1,945	4,602	5,277	9,880	674	238	1,629

Note: Detailed figures may not add to the totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>General statistics for some producing States are not shown separately in the table (See INTRODUCTION Confidentiality of Data for Individual Companies"). Such States are shown below with the number of establishments in each State for 1954 and, in parentheses, the number of employees or the employment-size range for that State for 1954:

S.I.C. 2611, Pulp Mills: New England--Maine, 20 (2,500-4,999); New Hampshire, 3 (1,420); Vermont, 2 (20-99); Massachusetts, 3 (100-249); Rhode Island, 1 (1-19); Connecticut, 1 (1-19); East North Central--Illinois, 6 (100-249); Michigan, 10 (500-999); West North Central--Minnesota, 9 (1,000-2,499); Iowa, 1 (20-99); South Atlantic--Maryland, 2 (250-499); Virginia, 9 (2,500-4,999); North Carolina, 6 (2,500-4,999); South Carolina, 4 (1,749); Georgia, 10 (2,500-4,999); Florida, 11 (4,341); West South Central--Arkansas, 2 (500-999); Louisiana, 9 (4,376); Texas, 4 (500-999); West--Idaho, 1 (100-249); California, 6 (500-999).

S.I.C. 2612, Paper and Paperboard Mills: Northeast--New Hampshire, 21 (2,415); Vermont, 9 (500-999); Connecticut, 20 (1,000-2,499); New Jersey, 33 (5,468); East North Central--Indiana, 13 (1,000-2,499); Michigan, 42 (5,000-9,999); West North Central--Iowa, 2 (250-499); Missouri, 1 (100-249); Kansas, 2 (250-499); South Atlantic--Maryland, 6 (1,860); South Carolina, 3 (1,837); East South Central--Tennessee, 8 (1,000-2,499); Alabama, 5 (1,000-2,499); Mississippi, 1 (1,000-2,499); West South Central--Arkansas, 2 (1,000-2,499); Oklahoma, 2 (100-249); West--Idaho, 1 (500-999); Colorado, 1 (20-99); Washington, 17 (2,500-4,999).

S.I.C. 2613, Building Paper and Board Mills: Northeast--Maine, 1 (100-249); Rhode Island, 1 (100-249); Connecticut, 1 (20-99); New Jersey, 8 (1,120); East North Central--Indiana, 2 (20-99); Illinois, 9 (500-999); West North Central--Minnesota, 4 (1,000-2,499); Iowa, 1 (100-249); Missouri, 4 (100-249); South Atlantic--Maryland, 1 (100-249); Virginia, 1 (250-499); North Carolina, 1 (20-99); Georgia, 2 (250-499); Florida, 3 (250-499); East South Central--Tennessee, 2 (20-99); Alabama, 2 (500-999); Mississippi, 4 (2,500-4,999); West South Central--Arkansas, 2 (20-99); Louisiana, 3 (2,752); Texas, 8 (250-499); Pacific--Washington, 3 (100-249); California, 8 (500-999).



## MANUFACTURES—INDUSTRY STATISTICS

Table 3.—DETAILED STATISTICS FOR THE UNITED STATES: 1954

(For explanation of line captions see Introduction)

	Pulp mills (S.I.C. 2611)	Paper and paperboard mills (S.I.C. 2612)	Building paper and board mills (S.I.C. 2613)
Primary product specialization ratio <sup>1</sup> .....	99	99	98
Coverage ratio <sup>2</sup> .....	100	100	97
Number of establishments, total.....	252	589	91
With 1-19 employees.....	40	15	7
With 20-99 employees.....	74	202	50
With 100 employees and over.....	138	372	34
All employees:			
Number (average for year).....	57,672	142,191	16,391
Payroll.....\$1,000..	256,622	648,972	69,271
Production workers:			
Number (average for year).....	48,896	119,859	14,284
Man-hours.....1,000..	105,252	265,871	30,374
Wages.....\$1,000..	207,188	513,108	57,536
Value added by manufacture.....do...	704,274	1,429,659	155,415
Cost of materials, etc.....do...	873,017	2,363,150	149,884
Value of shipments.....do...	1,577,291	3,792,810	305,302
Value added by resales.....do...	118	567	3,082
Cost of products bought and resold.....do...	868	6,474	12,281
Sales of products bought and resold.....do...	987	7,041	15,364
Total inventories, beginning of year.....do...	171,687	303,679	19,606
Total inventories, end of year.....do...	161,526	311,136	19,337
Capital expenditures, new.....do...	148,475	213,050	9,013
Number of employees for selected months:			
March.....	56,737	142,238	15,865
May.....	57,357	141,592	16,200
August.....	58,274	141,961	16,502
November.....	58,321	142,973	16,997
Cost of materials, fuel, electricity and contract work, total.....\$1,000..	873,017	2,363,150	149,884
Materials, parts, containers, and supplies consumed.....do...	794,166	2,183,075	134,167
Fuels consumed, total.....do...	192,045		9,536
Bituminous coal and anthracite:			
Quantity.....1,000 short tons..	11,383		514
Value.....\$1,000..	93,764		4,346
Coke:			
Quantity.....1,000 short tons..	10		...
Value.....\$1,000..	164		...
Fuel oil:			
Quantity.....1,000 barrels..	19,271		743
Value.....\$1,000..	47,504		1,962
Gas:			
Quantity.....million cubic feet..	93,096		15,341
Value.....\$1,000..	18,863		2,885
Other fuels:			
Value.....do...	31,750		343
Electric energy:			
Purchased:			
Quantity.....million kwh..	8,621		731
Cost.....\$1,000..	64,185		6,154
Generated.....million kwh..	13,742		220
Sold:			
Quantity.....do...	1,474		17
Value.....\$1,000..	13,549		213
Cost of contract work.....do...	1,286	1,410	27
Manufacturers' inventories:			
Beginning of year, total.....do...	171,687	303,679	19,606
Finished products.....do...	17,218	65,154	5,946
Work-in-process.....do...	3,441	18,998	973
Materials, supplies, fuel, etc.....do...	151,026	219,526	12,686
End of year, total.....do...	161,526	311,136	19,337
Finished products.....do...	18,878	72,338	6,075
Work-in-process.....do...	4,455	20,707	946
Materials, supplies, fuel, etc.....do...	138,193	218,090	12,315
Expenditures for plant and equipment, total.....do...	149,164	215,323	9,769
Capital expenditures, new.....do...	148,475	213,050	9,013
New structures and additions to plant.....do...	33,072	49,139	1,503
New machinery and equipment.....do...	115,403	163,911	7,510
Expenditures for used plant and equipment.....do...	( <sup>4</sup> )	2,273	756
Horsepower rating of power equipment at end of 1954:			
Horsepower of prime movers and electric motors driven by purchased energy, total.....1,000 hp..	7,009		350
Engines, etc., driving electric generators.....do...	3,339		82
Engines, etc., not driving electric generators.....do...	676		12
Electric motors driven by purchased energy.....do...	2,994		256
Electric motors driven by energy generated at the establishment.....do...	3,696		64

Note: Detailed figures may not add to the totals because of independent rounding. xxx Not applicable. NA Not available. <sup>1</sup>The specialization ratio compares the given industry's shipments of its primary products to its total shipments of all products. (The primary products are listed in Tables 5B and 6A; the first 4-digits of the product code represent the industry code to which the product is primary.) <sup>2</sup>The coverage ratio measures the extent to which the total shipments of products primary to the given industry are shipped by establishments classified in that industry.

<sup>3</sup>Less than \$500 thousand.

## PULP, PAPER, AND PAPERBOARD

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Table 4.—SELECTED STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR THE UNITED STATES: 1954

(Value figures in thousands of dollars. For explanation of line captions see Introduction. Data which cannot be shown without disclosing information for individual companies have been combined with figures for other size classes. A (D) appears in the column where the figure has been omitted and the combined figure is underlined and shown in the size-class to the left)

Ind. code	Industry and item	Total, all establishments	Establishments with an average of—									
			1-4 em- employees	5-9 em- employees	10-19 em- employees	20-49 em- employees	50-99 em- employees	100-249 employees	250-499 employees	500-999 employees	1,000-2,499 employees	2,500 employees and over
2611	Pulp mills:											
	Number of establishments...	252	3	12	25	29	45	49	52	32	5	..
	Number of employees.....	57,672	7	98	342	1,028	3,237	8,116	18,013	20,855	5,974	..
	Value added by manufacture.	704,274	44	1,236	4,660	9,054	32,939	77,754	226,387	269,497	82,700	..
2612	Paper and paperboard mills:											
	Number of establishments...	589	2	3	10	95	107	194	115	43	18	..
	Number of employees.....	142,191	25	(D)	158	3,409	7,976	31,325	39,726	30,576	28,994	(D)
	Value added by manufacture.	1,429,659	158	(D)	903	27,705	91,470	311,032	394,989	333,003	270,396	(D)
2613	Building paper & board mills:											
	Number of establishments...	91	2	...	5	26	24	20	10	2	1	..
	Number of employees.....	16,391	86	...	(D)	906	1,646	3,268	3,714	6,769	(D)	(D)
	Value added by manufacture.	155,415	628	...	(D)	8,208	14,170	29,038	37,613	65,756	(D)	(D)

Note: Detailed figures may not add to the totals because of independent rounding.

Table 5A.—INDUSTRY-PRODUCT ANALYSIS—SUMMARY OF INDUSTRY AND PRIMARY PRODUCT SHIPMENTS, SPECIALIZATION RATIOS AND COVERAGE RATIOS FOR THE UNITED STATES: 1954 AND 1947

Industry code	Industry and census year	Value of shipments					Value of primary products shipped			
		Total	Primary products	Secondary products	Miscel- laneous receipts	Primary product speciali- zation ratio <sup>1</sup>  Col. B Col. B+C (Percent)	Total (made in all industries)	Made in this industry	Made in other industries	Coverage ratio <sup>2</sup>  Col. G Col. F (Percent)
(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(E)	(\$1,000)	(\$1,000)	(\$1,000)	(I)		
(A)	(B)	(C)	(D)		(F)	(G)	(H)			
2611	Pulp mills.....1954..	1,577,291	1,563,760	11,879	1,652	99	1,565,454	1,563,760	1,694	100
	1947..	939,604	930,254	8,543	807	99	930,254	930,254	...	100
2612	Paper and paperboard mills...1954..	3,792,810	3,758,004	26,000	8,806	99	3,769,700	3,757,413	12,287	100
	1947 <sup>3</sup> .	2,589,114	(NA)	(NA)	(NA)	( <sup>3</sup> )	2,574,656	(NA)	(NA)	( <sup>3</sup> )
2613	Building paper and board mills.....1954..	305,302	298,043	6,501	758	98	308,190	298,043	10,147	97
	1947 <sup>3</sup> .	215,349	(NA)	(NA)	(NA)	( <sup>3</sup> )	229,987	(NA)	(NA)	( <sup>3</sup> )

NA Not available.

<sup>1</sup>The specialization ratio compares the given industry's shipments of its primary products to its total shipments of all products. (The primary products are listed in Tables 5B and 6A; the first 4-digits of the product code represent the industry code to which the product is primary.)

<sup>2</sup>The coverage ratio measures the extent to which the total shipments of products primary to the given industry are shipped by establishments classified in that industry.

<sup>3</sup>Industry 2612 and Industry 2613 were treated as one industry in the 1947 Census. The combined industry's primary product specialization ratio and coverage ratio were both 100 percent.

## MANUFACTURES—INDUSTRY STATISTICS

Table 5B.--INDUSTRY-PRODUCT ANALYSIS--SHIPMENTS BY PRODUCT CLASS AND INDUSTRY, FOR THE UNITED STATES: 1954

(In thousands of dollars. The first column shows the total value of shipments of the specified industry divided among: (a) products classified in the industry (primary products), (b) products classified in other industries (secondary products) and (c) miscellaneous receipts. The value of shipments of the primary products of the specified industry reported by establishments not classified in that industry is shown under the caption "Other Industries." Industries accounting for significant amounts of the primary products listed are shown in separate columns provided that the figures for individual companies are not thereby disclosed. The last column shows the total value of shipments of the primary products of the industry by all manufacturing industries)

Prod. class code		Pulp mills (S.I.C. 2611)	Other industries	All industries
	Total shipments and receipts of the industry.....	1,577,291	xxx	xxx
	Primary products.....	1,563,760	1,694	1,565,454
26111	Special alpha and dissolving wood pulp.....	127,826	...	127,826
26112	Bleached sulfite wood pulp.....	216,813	...	216,813
26113	Unbleached sulfite wood pulp.....	60,758	...	60,758
26114	Bleached and semi-bleached sulfate wood pulp.....	313,768	...	313,768
26115	Unbleached sulfate wood pulp.....	479,613	...	479,613
26116	Soda wood pulp.....	50,072	...	50,072
26117	Ground wood pulp.....	139,108	...	139,108
26118	Semi-chemical, defibrated, and other wood pulp.....	111,286	...	111,286
26119	Other miscellaneous pulp mill products.....	64,516	1,694	66,210
	Secondary products.....	11,879	xxx	xxx
28123	Sodium hydroxide (caustic soda).....	2,204	xxx	xxx
28197	Other inorganic chemicals.....	4,667	xxx	xxx
	Other secondary products.....	5,008	xxx	xxx
	Miscellaneous receipts.....	1,652	xxx	xxx
	Scrap and salable refuse.....	1,035	xxx	xxx
	Other.....	617	xxx	xxx
		Paper and paperboard mills (S.I.C. 2612)	Other industries	All industries
	Total shipments and receipts of the industry.....	3,792,810	xxx	xxx
	Primary products.....	3,758,004	11,696	3,769,700
26121	Newsprint and uncoated groundwood paper.....	266,186	...	266,186
26122	Paper-machine, coated printing and converting paper.....	252,573	( <sup>1</sup> )	252,617
26123	Book and fine paper, uncoated.....	776,850	5,955	782,805
26124	Coarse, special industrial paper, including absorbent.....	737,525	2,550	740,075
26125	Sanitary tissue stock.....	352,262	4,030	352,665
26126	Container board.....	657,587	242	657,829
26127	Bending board, including special food board.....	483,756	711	484,467
26128	Nonbending board.....	77,672	584	78,256
26129	Special paperboard, cardboard and wet machine board.....	153,593	1,207	154,800
	Secondary products.....	26,000	xxx	xxx
	Miscellaneous receipts.....	8,806	xxx	xxx
	Contract and commission work.....	5,622	xxx	xxx
	Scrap and salable refuse.....	3,086	xxx	xxx
	Other.....	( <sup>1</sup> )	xxx	xxx
		Building paper and board mills (S.I.C. 2613)	Other industries	All industries
	Total shipments and receipts of the industry.....	305,302	xxx	xxx
	Primary products.....	298,043	<sup>2</sup> 10,147	308,190
26131	Construction paper, unsaturated.....	112,344	<sup>2</sup> 8,787	121,131
26132	Insulating board and hard pressed wood fiber board.....	185,699	<sup>2</sup> 1,360	187,059
	Secondary products.....	6,501	xxx	xxx
	Miscellaneous receipts.....	758	xxx	xxx

xxx Not applicable.

<sup>1</sup>Less than \$100 thousand.<sup>2</sup>Made predominately in Industry 2612, Paper and Paperboard Mills.



Table 6A—QUANTITY AND VALUE OF PRODUCTS SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, FOR THE UNITED STATES: 1954 AND 1947

Product code	Product	1954						1947					
		Total shipments including interplant transfers			Commercial (market) shipments			Total shipments including interplant transfers			Interplant transfers		
		Production (tons of 2,000 lbs. air-dry)		Interplant transfers		Quantity (tons of 2,000 lbs. air-dry)		Production (tons of 2,000 lbs. air-dry)		Total shipments <sup>2</sup>		Interplant transfers	
		Quantity (tons of 2,000 lbs. air-dry)	Value (\$1,000)	Quantity (tons of 2,000 lbs. air-dry)	Value (\$1,000)	Quantity (tons of 2,000 lbs. air-dry)	Value (\$1,000)	Quantity (tons of 2,000 lbs. air-dry)	Value (\$1,000)	Quantity (tons of 2,000 lbs. air-dry)	Value (\$1,000)	Quantity (tons of 2,000 lbs. air-dry)	Value (\$1,000)
2611--	Products of pulp mills, total.....	xxx	1,565,454	xxx	xxx	xxx	xxx	xxx	xxx	xxx	930,254	xxx	xxx
261111	Special alpha and dissolving wood pulp <sup>3</sup> ....	760,114	127,826	(4)	(4)	4,750,277	4,127,819	329,161	427,819	327,118	43,176	504	62
26112	Bleached sulfite wood pulp.....	1,795,024	216,813	1,307,938	155,673	433,643	61,096	1,572,784	176,005	1,558,637	176,005	1,010,492	111,234
261121	Mitscherlich.....	197,396	26,555	(D)	(D)	(D)	(D)	96,986	96,793	96,793	11,418	86,751	10,175
2611231	Other softwood.....	1,425,723	171,748	953,440	112,610	468,568	59,105	1,353,771	134,271	1,342,519	152,519	846,793	94,460
2611251	Other hardwood.....	171,875	18,510	(D)	(D)	(D)	(D)	122,027	119,103	122,027	12,068	76,943	6,599
26113	Unbleached sulfite wood pulp.....	587,675	60,758	522,864	54,174	70,134	6,557	874,017	87,483	886,965	87,483	684,238	63,945
261131	Mitscherlich.....	56,608	6,476	456,507	46,472	(D)	(D)	94,952	94,402	94,402	11,330	46,483	5,405
2611351	Other.....	531,067	54,282	466,357	47,702	70,134	6,557	799,065	76,153	792,563	76,153	637,755	58,540
26114	Bleached and semi-bleached sulfate wood pulp.....	3,011,688	313,768	2,462,256	243,666	538,205	70,049	1,102,067	110,914	1,103,455	90,914	1,055,324	83,921
261141	Bleached:												
2611431	Softwood.....	2,124,326	215,836	1,711,513	163,120	415,334	52,689	733,608	734,790	734,790	60,690	693,337	54,482
2611431	Hardwood.....	558,695	60,450	467,401	48,236	94,300	12,202	175,303	175,751	175,751	14,694	171,667	14,211
2611451	Semi-bleached.....	328,667	331,914	283,342	32,310	48,571	5,158	193,156	192,914	192,914	15,530	190,320	15,228
26115	Unbleached sulfate wood pulp.....	6,800,366	6,782,513	6,598,835	463,662	183,609	15,908	4,254,643	4,251,321	4,251,321	270,947	4,078,248	252,276
261151	Paper grades.....	2,954,328	2,937,572	2,825,821	207,305	111,857	9,398	2,273,691	2,273,500	2,273,500	157,334	2,165,396	145,401
2611551	Board grades.....	3,846,038	3,844,941	3,773,014	256,357	71,752	6,510	1,980,952	1,977,821	1,977,821	113,613	1,912,852	106,875
261161	Soda wood pulp.....	429,596	50,072	354,331	40,458	74,298	9,602	491,580	490,589	490,589	44,089	417,447	35,784
26117	Groundwood pulp.....	2,484,963	139,108	2,454,584	136,394	37,685	2,658	2,049,814	2,050,403	2,050,403	95,879	1,989,865	91,846
261171	Bleached.....	490,268	491,517	483,421	33,698	8,072	554	108,989	108,949	108,949	6,728	108,949	6,728
2611751	Unbleached.....	1,994,695	104,838	1,971,163	102,696	29,613	2,104	1,940,825	1,941,454	1,941,454	89,151	1,880,916	85,118
26118	Miscellaneous wood pulp.....	2,386,713	111,286	2,236,269	108,456	41,586	2,765	1,251,798	1,248,387	1,248,387	54,833	1,187,529	53,250
261181	Semi-chemical (including chemi-pulp):												
2611811	Bleached.....	147,795	13,717	146,036	4,13,712	(4)	(4)	444,033	443,931	443,931	16,742	443,931	16,742
2611831	Unbleached.....	1,050,189	58,642	1,041,273	458,624	(4)	(4)	693,282	693,284	693,284	33,149	657,071	32,558
2611851	Defibrated or exploded.....	1,027,525	938,970	938,959	4,31,412	(4)	(4)	114,483	111,172	111,172	4,942	86,527	3,950
2611871	Screenings, off-quality, damaged, etc.	161,204	7,496	110,001	4,708	41,586	2,765	(NA)	(NA)	(NA)	64,928	(NA)	4,866
26119	Pulp other than wood, and miscellaneous pulp mill products, n.e.c.....	(NA)	66,210	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
2611911	Other pulp manufactured for sale (or for own use in making products other than paper and board).....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
2611915	Turpentine, sulfate.....	207,358	43,581	(D)	(D)	(D)	(D)	155,749	147,200	147,200	647,920	9,769	63,675
2611921	Tall oil.....	(NA)	2,682	(NA)	(D)	(NA)	2,663	(NA)	(NA)	(NA)	1,558	(NA)	...
2611931	Crude (processed from black liquor soap, crude sulfate soap, or skimmings).....	(NA)	(NA)	(NA)	(D)	(NA)	(NA)	(NA)	(NA)	(NA)	10,040	(NA)	1,191
2611935	Refined (including distilled).....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
2611941	Other cooking liquor by-products:												
2611951	Binders.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	3,647	(NA)	1,191
2611951	Fuel.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	6,393	(NA)	...
2611971	Other.....	(NA)	19,947	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	75,410	(NA)	...

See footnotes at end of table.

Table 2A—QUANTITY AND VALUE OF PRODUCTS SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, FOR THE UNITED STATES: 1954 AND 1947—Continued

Product code	Product	1954						1947											
		Total shipments including interplant transfers						Total shipments including interplant transfers											
		Production (tons of 2,000 lbs. air-dry)			Interplant transfers			Commercial (market) shipments			Production (tons of 2,000 lbs. air-dry)			Total shipments <sup>2</sup>			Interplant transfers		
		Quantity (tons of 2,000 lbs. air-dry)	Value (\$1,000)	Quantity (tons of 2,000 lbs. air-dry)	Value (\$1,000)	Quantity (tons of 2,000 lbs. air-dry)	Value (\$1,000)	Quantity (tons of 2,000 lbs. air-dry)	Value (\$1,000)	Quantity (tons of 2,000 lbs. air-dry)	Value (\$1,000)	Quantity (tons of 2,000 lbs. air-dry)	Value (\$1,000)	Quantity (tons of 2,000 lbs. air-dry)	Value (\$1,000)	Quantity (tons of 2,000 lbs. air-dry)	Value (\$1,000)		
2612---	Paper and paperboard mills, total.....	23,973,372	23,803,540	3,769,700	7,933,778	1,091,906	15,870,494	2,676,539	18,752,519	18,691,304	2,574,656	5,748,416	665,983						
26121	Newsprint and groundwood paper.....	1,990,631	1,990,972	266,186	13,426	2,126	1,977,546	264,057	1,654,356	1,664,343	174,166	xxx	xxx						
2612111	Newsprint.....	1,202,413	1,208,411	137,443	(4)	(4)	41,208,411	4,137,443	833,038	847,182	68,457	xxx	xxx						
	Groundwood publication and printing paper:																		
2612121	A grade.....	338,173	337,640	57,783	(4)	(4)	4337,640	457,783	426,742	419,094	54,212	xxx	xxx						
2612125	B grade.....	274,428	274,624	42,285	...	...	274,624	42,285	119,266	123,610	15,089	xxx	xxx						
	Groundwood converting paper:																		
2612131	Hanging.....	50,823	53,631	8,556	(D)	(D)	(D)	(D)	128,182	127,596	15,462	xxx	xxx						
2612133	Box lining and covering.....	3,473	3,616	698	...	...	3,616	698	16,639	16,618	2,186	xxx	xxx						
2612135	Body stock for coating and carbonizing.....	21,196	13,508	2,108	(D)	(D)	(D)	(D)	841,630	841,333	85,364	xxx	xxx						
2612136	Other groundwood converting paper, including drawing, tablet, album, etc.....	70,636	69,705	11,901	(4)	(4)	469,705	411,901	954,473	954,493	98,591	xxx	xxx						
	Miscellaneous groundwood paper:																		
2612151	Writing and mimeograph.....	6,009	6,227	1,342	...	...	6,227	1,342	5,769	5,694	794	xxx	xxx						
2612153	Railroad manila.....	5,041	5,172	795	...	...	5,172	795	4,143	4,157	522	xxx	xxx						
2612155	Poster.....	9,578	9,221	1,590	(4)	(4)	9,221	1,590	6,638	6,662	908	xxx	xxx						
2612157	Other miscellaneous groundwood paper.....	8,861	9,217	1,685	(4)	(4)	9,217	1,685	17,836	17,904	2,581	xxx	xxx						
26122	Paper-machine coated paper for printing and converting.....	1,221,700	1,222,873	252,617	19,563	5,592	1,203,309	247,011	626,999	623,724	100,609	2,035	438						
2612211	Coated, one side.....	121,187	121,502	33,023	(D)	(D)	(D)	(D)	35,875	35,236	7,928	xxx	xxx						
2612251	Coated, two sides.....	1,100,513	1,101,371	219,594	(D)	(D)	(D)	(D)	591,124	588,488	92,681	2,035	438						
26123	Book and fine paper.....	2,861,968	2,825,261	782,805	209,964	42,366	2,615,259	740,349	2,752,463	2,728,206	625,093	246,953	41,809						
	Book paper, uncoated:																		
2612311	Book publication and printing paper: Plain, including M.F., E.F., antique, bulking and eggshell.....	295,075	293,207	66,559	(4)	(4)	4293,207	466,559	335,532	337,847	63,807	2,783	431						
2612313	Supercalendered.....	319,681	324,159	61,158	(4)	(4)	4324,159	61,158	480,074	478,230	76,037	xxx	xxx						
2612315	Offset.....	328,798	325,655	82,325	(4)	(4)	4325,655	82,325	215,443	212,505	46,142	2,534	459						
2612317	Other book printing paper (music, poster, etc.).....	20,422	20,447	4,877	(4)	(4)	420,447	44,877	38,522	38,552	6,935	xxx	xxx						
	Book converting paper:																		
2612321	Body stock for coating.....	260,845	243,748	48,008	185,008	35,431	58,740	12,561	283,264	283,189	48,375	217,626	36,239						
2612323	Envelope.....	174,131	173,783	40,349	(4)	(4)	4173,783	40,349	123,453	121,599	21,014	14,589	2,794						
2612325	Tablet.....	118,937	119,505	26,415	(4)	(4)	4119,505	426,415	61,689	62,685	10,631	xxx	xxx						
2612327	Other book converting paper (business-machine paper, box lining and covering, etc.).....	48,509	48,837	11,583	1,161	288	47,682	11,265	29,962	28,960	6,098	xxx	xxx						
	Miscellaneous book paper:																		
2612328	Government post card and other miscellaneous book paper.....	11,044	10,703	2,102	(4)	(4)	410,703	42,102	12,985	13,078	2,134	xxx	xxx						

See footnotes at end of table.

Table 6A—QUANTITY AND VALUE OF PRODUCTS SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, FOR THE UNITED STATES: 1954 AND 1947—Continued

Product code	Product	1954						1947					
		Total shipments including interplant transfers						Total shipments including interplant transfers					
		Total shipments <sup>1</sup>		Interplant transfers		Commercial (market) shipments		Production (tons of 2,000 lbs. air-dry)		Total shipments <sup>2</sup>		Interplant transfers	
		Quantity (tons of 2,000 lbs. air-dry)	Value (\$1,000)	Quantity (tons of 2,000 lbs. air-dry)	Value (\$1,000)	Quantity (tons of 2,000 lbs. air-dry)	Value (\$1,000)	Quantity (tons of 2,000 lbs. air-dry)	Value (\$1,000)	Quantity (tons of 2,000 lbs. air-dry)	Value (\$1,000)	Quantity (tons of 2,000 lbs. air-dry)	Value (\$1,000)
2612--- 26123	Paper and paperboard mills—Continued Book and fine paper—Continued Fine paper:												
	Writing, rag (containing rags, etc.):												
	protective and check.....	62,037	33,678	(4)	(4)	46,083	433,678	93,061		91,129	39,304	xxx	xxx
2612331	Leder.....	13,363	7,592	...	...	13,363	7,592	19,754		13,973	8,719	xxx	xxx
2612333	Manifold.....	7,988	7,262	(D)	(D)	7,988	7,262	6,314		5,986	4,039	xxx	xxx
2612337	Paperie and wedding.....	3,281	2,199	(D)	(D)	3,281	2,199	11,465		11,465	4,946	xxx	xxx
2612341	Map and chart.....	1,168	574	...	...	1,168	574	2,253		2,166	920	xxx	xxx
2612343	Reproduction.....	18,651	10,764	...	...	18,336	10,764	21,479		21,465	8,946	xxx	xxx
2612345	Index.....	7,275	3,910	...	...	7,165	3,910	9,053		8,837	3,960	xxx	xxx
2612349	Other rag writing paper.....	6,957	4,046	(D)	(D)	6,957	4,046	10,461		10,588	4,566	xxx	xxx
	Writing, chemical wood pulp:												
	Bond and writing (including protective and check).....	555,798	150,032	10,995	2,919	543,592	147,113	468,947		469,259	107,029	9,421	1,836
2612351	Leder.....	37,350	11,145	(4)	(4)	36,520	11,145	32,558		32,351	8,001	xxx	xxx
2612353	Manifold.....	16,951	6,289	(4)	(4)	16,246	6,289	21,163		21,058	6,381	xxx	xxx
2612357	Mimeograph.....	86,406	23,454	...	...	83,912	23,454	71,000		69,698	16,080	xxx	xxx
2612359	Gelatin and spirit process duplicating	53,940	15,579	...	...	52,694	15,579	28,794		28,485	6,780	xxx	xxx
2612361	Paperie and wedding.....	45,644	14,182	...	...	46,010	14,182	82,166		81,853	21,333	xxx	xxx
2612363	Map and chart.....	8,871	9,273	(D)	(D)	8,871	9,273	3,568		3,644	936	xxx	xxx
2612365	Blueprint and similar base stock	29,871	9,273	...	...	30,197	9,273	17,757		17,757	5,038	xxx	xxx
2612366	Photographic and other sensitizing stock	517,657	16,196	(4)	(4)	516,196	16,196	8,919		8,943	2,108	xxx	xxx
2612367	Opaque circular.....	16,461	4,649	(D)	(D)	16,461	4,649	9,440		9,314	2,057	xxx	xxx
2612369	Other chemical wood writing.....	16,952	4,649	(D)	(D)	16,952	4,649	9,440		9,314	2,057	xxx	xxx
	Index bristol (chemical wood pulp).....	77,479	20,111	(4)	(4)	78,489	20,111	106,495		106,495	10,544	xxx	xxx
2612371	Printing bristol.....	22,753	5,073	(4)	(4)	22,753	5,073	17,683		16,795	4,931	xxx	xxx
2612373	Uncoated post card bristol.....	3,459	1,502	(4)	(4)	3,459	1,502	4,193		4,193	1,068	xxx	xxx
2612375	Cover paper.....	32,855	10,716	(4)	(4)	32,775	10,716	65,257		64,848	16,130	xxx	xxx
2612377	Text paper.....	45,889	15,463	(4)	(4)	45,287	15,463	27,321		27,853	8,601	xxx	xxx
2612379	Colored school paper (construction paper containing not more than 2% groundwood pulp).....	3,840	1,136	...	...	3,439	1,136	(9)		(9)	(9)	xxx	xxx
2612381	Thin paper:												
	Carbonizing, free from groundwood pulp	39,364	17,660	5,268	1,470	36,341	16,190	26,135		25,056	9,714	xxx	xxx
2612383	Condenser.....	37,333	36,994	...	...	37,144	36,994	6,570		5,980	6,537	xxx	xxx
2612385	Cigarette.....	12,640	10,063	(4)	(4)	12,640	10,063	31,781		31,781	26,202	xxx	xxx
2612387	Other thin paper, stencil, lens, etc.	3,962,136	740,075	1,390,368	228,250	2,513,440	511,268	3,293,435		3,280,367	551,304	1,088,582	151,710
26124	Coarse and special industrial paper, including absorbent paper.....	3,962,136	740,075	1,390,368	228,250	2,513,440	511,268	3,293,435		3,280,367	551,304	1,088,582	151,710
	Coarse paper:												
	Unbleached kraft paper, containing more than 50% unbleached sulfate wood pulp:												
	Wrapping paper:												
	M.P. and M.G. wrapping paper (colored and natural).....	341,410	53,399	22,737	4,979	309,002	48,420	297,271		302,033	39,685	35,960	3,437
2612411	Butchers.....	35,769	6,170	(D)	(D)	35,769	6,170	48,755		49,240	6,116	xxx	xxx
2612412	Miscellaneous, including screen-ings, core stock, bogus, mill												
2612413	wrappers, car liners and side rolls.....	25,292	2,564	14,284	1,643	10,013	1,050	11,102,897		11,90,407	11,10,407	13,385	13,385

See footnotes at end of table.



## MANUFACTURES—INDUSTRY STATISTICS

Table 6A—QUANTITY AND VALUE OF PRODUCTS SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, FOR THE UNITED STATES: 1954 AND 1947—Continued

Product code	Product	1954						1947			
		Total shipments including interplant transfers						Total shipments including interplant transfers			
		Production (tons of 2,000 lbs. air-dry)		Interplant transfers		Commercial (market) shipments		Production (tons of 2,000 lbs. air-dry)		Total shipments <sup>2</sup>	
		Quantity (tons of 2,000 lbs. air-dry)	Value (\$1,000)	Quantity (tons of 2,000 lbs. air-dry)	Value (\$1,000)	Quantity (tons of 2,000 lbs. air-dry)	Value (\$1,000)	Quantity (tons of 2,000 lbs. air-dry)	Value (\$1,000)	Quantity (tons of 2,000 lbs. air-dry)	Value (\$1,000)
2612444 2612445	Paper and paperboard mills—Continued Coarse and special industrial paper, including absorbent paper—Continued Coarse paper—Continued Unbleached kraft paper, containing more than 50% unbleached sulfate wood pulp—Continued Shipping sack paper: Shipping sack paper meeting minimum standards Federal Spec. UU-S-43..... Other unbleached kraft shipping sack paper.....	721,543 27,532	107,467 4,115	376,175 5,613	57,560 1,174	338,083 21,776	49,884 2,934	466,046 180,607	63,959 27,361	204,770 124,055	28,163 16,979
2612415	Bag paper: Grocers and variety bag paper... Other unbleached kraft bag paper.....	797,061 65,512	796,509 9,964	548,526 46,152	73,969 7,822	247,983 18,786	31,192 2,132	475,555 20,110	52,834 3,390	378,796 ...	42,146 ...
2612421	Converting paper: Asphalting paper including creped or creping stock for asphalt..... Other creping..... Envelope stock..... Gumming stock..... Twisting and spinning stock (18 lb. and up)..... Waxing stock (18 lb. and up)..... Other converting paper.....	162,784 20,542 22,153 95,206 24,879 19,695 164,960	27,821 4,214 10,576 14,699 5,530 3,448 28,586	81,965 6,075 2,540 31,154 7,478 8,489 16,004	13,684 1,288 410 5,095 1,557 1,430 2,926	80,503 14,610 49,605 61,205 15,936 10,470 144,391	14,117 2,917 10,156 9,591 3,964 1,905 25,638	188,018 21,904 63,161 80,411 23,651 93,705 127,379	27,429 3,148 64,126 12,747 5,208 21,092 107,468	64,685 718 xxx 29,117 ...	8,154 91 xxx 5,748 ...
2612428 2612429 2612431	Rope and combination kraft and rope shipping sack paper..... Glassine, greaseproof and vegetable parchment: Wrapping paper..... Bag stock..... Converting stock..... Other coarse paper, including bleached and semi-bleached kraft paper, sulfate and any mixed furnishes containing not more than 50% unbleached sulfate wood pulp: Wrapping paper: N.C. and M.G. wrapping paper (colored or natural)..... Butchers and grocers wrap..... Miscellaneous, including screenings, core stock, bogus, mill wrappers, car liners and side rolls..... Shipping sack paper.....	75,732 28,357 49,911 68,134 144,963 49,208 33,508	74,392 28,622 40,029 68,183 146,429 44,088 31,778	19,301 1,452 14,786 8,825 2,654 23,908 11,491	7,383 541 3,730 2,328 695 2,367 2,646	55,091 27,170 34,243 59,368 143,573 20,180 20,287	24,555 11,414 13,635 15,133 27,949 2,479 4,592	91,711 12,936 51,663 74,841 145,334 ...	28,311 4,129 18,949 14,271 20,557 ...	16,811 xxx xxx 7,248 xxx ...	4,681 xxx xxx 1,279 xxx ...
2612453 2612455	Bag paper: Grocers and variety bag paper... Other bag paper.....	47,246 17,560	9,353 3,953	15,184 5,596	3,019 1,222	30,188 12,573	6,323 2,721	44,199	7,242	18,790	2,640
2612461 2612462	Converting paper: Asphalting paper, including creped or creping stock for asphalt..... Other creping.....	9,715	1,531	2,602	353	6,791	1,172	...	...	...	...

See footnotes at end of table.

Table 6A—QUANTITY AND VALUE OF PRODUCTS SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, FOR THE UNITED STATES: 1954 AND 1947—Continued

Product code	Product	1954						1947					
		Total shipments including interplant transfers			Commercial (market) shipments			Production (tons of 2,000 lbs. air-dry)			Total shipments <sup>2</sup> interplant transfers		
		Total shipments <sup>1</sup>		Interplant transfers		Commercial (market) shipments		Production (tons of 2,000 lbs. air-dry)			Total shipments <sup>2</sup>		
		Quantity (tons of 2,000 lbs. air-dry)	Value (\$1,000)	Quantity (tons of 2,000 lbs. air-dry)	Value (\$1,000)	Quantity (tons of 2,000 lbs. air-dry)	Value (\$1,000)	Quantity (tons of 2,000 lbs. air-dry)	Value (\$1,000)	Quantity (tons of 2,000 lbs. air-dry)	Value (\$1,000)	Quantity (tons of 2,000 lbs. air-dry)	Value (\$1,000)
2612— 26124	Paper and paperboard mills—Continued Coarse and special industrial paper, including absorbent paper—Continued Coarse paper—Continued Other coarse paper, including bleached and semi-bleached kraft paper, sulfite and any mixed furnish containing not more than 5% unbleached sulfate wood pulp—Cont'd												
2612463	Envelope stock.....	58,764	12,454	(4)		4,58,550	412,454	24,099	4,351	xxx	xxx	xxx	xxx
2612464	Gumming stock.....	6,953	1,590	1,580	303	5,118	1,241	7,493	1,511	xxx	xxx	xxx	xxx
2612465	Twisting and spinning stock (18 lb. and up).....	11,406	2,827	(4)		411,488	42,827	(12)	(12)	(12)	(12)	(12)	(12)
2612466	Waxing stock (18 lb. and up).....	172,094	42,852	51,591	11,180	121,902	31,645	152,426	28,547	61,090	11,312	11,312	11,312
2612467	Cup stock (under 90 lb.).....	43,334	8,390	9,304	2,624	31,866	5,767	25,712	4,775	xxx	xxx	xxx	xxx
2612469	Other converting paper.....	84,943	16,385	10,964	2,361	66,432	14,199	12,614,000	12,577,667	12,14,817	12,3,179	12,3,179	12,3,179
	Special industrial paper (all weights and calipers):												
2612471	Abrasive paper.....	6,598	3,175	(4)		6,655	3,175	10,355	3,960	xxx	xxx	xxx	xxx
2612472	Cable paper.....	17,539	7,582	(4)		416,532	47,582	15,181	14,770	xxx	xxx	xxx	xxx
2612473	Electrical insulation and armature paper and paperboard.....	15,101	7,480	(D)		(D)	(D)	13,776	5,876	xxx	xxx	xxx	xxx
2612474	Gasket paper and paperboard.....	4,821	1,344	(D)		(D)	(D)	5,454	1,121	xxx	xxx	xxx	xxx
2612475	Stencil backing paper and stencil board.....	3,389	751	(4)		43,327	4751	3,883	786	xxx	xxx	xxx	xxx
2612476	Tabulating card stock.....	129,511	25,667	(4)		4129,511	425,667	56,002	9,360	xxx	xxx	xxx	xxx
2612477	File folder stock.....	26,594	4,648	153	26	26,360	4,616	19,248	5,421	xxx	xxx	xxx	xxx
2612478	Tag stock.....	93,454	19,443	948	170	93,656	19,257	13,891,373	13,887,737	xxx	xxx	xxx	xxx
2612479	Wallet and patch stock.....	3,967	1,153	...	...	3,876	1,149	5,109	1,233	xxx	xxx	xxx	xxx
2612481	Pressboard, including imitation pressboard.....	15,151	5,038	821	104	13,870	4,950	12,704	3,230	xxx	xxx	xxx	xxx
2612482	Tyman.....	3,265	(D)	(D)		(D)	(D)	(12)	(12)	xxx	xxx	xxx	xxx
2612483	Blotting paper.....	10,018	3,559	(4)		49,545	43,559	13,078	3,955	xxx	xxx	xxx	xxx
2612484	Filter paper.....	511,447	5,412	(4)		410,758	4,412	4,747	2,840	xxx	xxx	xxx	xxx
2612485	Matrix paper and board.....	10,524	4,477	...	...	10,130	4,477	9,035	4,301	xxx	xxx	xxx	xxx
2612486	Vulcanizing fiber stock.....	524,605	(D)	(D)		(D)	(D)	32,800	8,866	23,516	6,480	6,480	6,480
2612487	Resin impregnating stock.....	33,684	11,440	2,901	1,215	28,880	10,210	28,792	10,458	xxx	xxx	xxx	xxx
2612488	Die wiping stock.....	3,637	833	...	...	4,045	833	3,462	733	xxx	xxx	xxx	xxx
2612489	Other special industrial or absorbent paper.....	586,839	26,625	12,582	3,242	73,092	23,336	66,762	17,638	6,061	760	760	760
26125	Sanitary stock, tissue paper.....	1,612,237	392,665	1,248,287	262,814	346,673	89,826	1,088,656	209,164	752,465	132,128	132,128	132,128
2612511	Sanitary tissue stock: Sanitary napkin stock, wadding.....	33,736	(D)	(D)		(D)	(D)	34,069	8,123	30,462	7,053	7,053	7,053
2612521	Toweling stock: Industrial (bulk and dispenser types).....	218,158	37,405	180,415	30,545	37,300	6,839	143,529	22,837	116,759	18,358	18,358	18,358
2612525	Household (retail packages).....	100,812	19,013	99,073	18,622	2,214	376	62,321	9,951	46,765	6,751	6,751	6,751
2612531	Toilet tissue stock: Regular type-single ply.....	482,983	94,943	422,693	80,978	58,991	13,945	368,514	61,921	305,465	48,110	48,110	48,110
2612535	Facial tissue type - 2 or more ply: Napkin stock: Industrial (bulk and dispenser types): Regular type - single ply.....	176,476	41,810	137,171	31,812	39,557	9,980	48,096	10,449	31,579	6,428	6,428	6,428
2612541	Facial tissue type - 2 or more ply:	567,383	13,159	37,476	7,054	26,922	6,090	62,504	12,192	35,117	6,237	6,237	6,237
2612543	Regular type - single ply.....	8,889	2,549	3,342	750	5,542	1,794						

See footnotes at end of table.

## MANUFACTURES—INDUSTRY STATISTICS

Table 6A—QUANTITY AND VALUE OF PRODUCTS SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, FOR THE UNITED STATES: 1954 AND 1947—Continued

Product code	Product	1954						1947			
		Total shipments including interplant transfers						Total shipments including interplant transfers			
		Production (tons of 2,000 lbs. air-dry)		Interplant transfers		Commercial (market) shipments		Production (tons of 2,000 lbs. air-dry)		Total shipments <sup>2</sup>	
		Quantity (tons of 2,000 lbs. air-dry)	Value (\$1,000)	Quantity (tons of 2,000 lbs. air-dry)	Value (\$1,000)	Quantity (tons of 2,000 lbs. air-dry)	Value (\$1,000)	Quantity (tons of 2,000 lbs. air-dry)	Value (\$1,000)	Quantity (tons of 2,000 lbs. air-dry)	Value (\$1,000)
2612--- 26125	Paper and paperboard mills—Continued Sanitary stock, tissue paper—Continued Sanitary tissue stock—Continued Narkin stock—Continued										
2612645	Resale (retail packages):	72,608	15,063	65,557	13,480	7,108	1,572	41,309	8,136	32,759	6,386
2612647	Regular type—single ply.....										
2612647	Facial tissue type—2 or more ply.....	22,399	5,669	21,366	5,491	572	171				
2612651	Facial tissue stock (other than napkin and toilet stock).....	194,671	49,981	164,752	44,500	19,767	5,465	127,564	23,033	122,161	27,309
2612661	Other sanitary tissue.....	7,780	(D)	(D)	(D)	(D)	(D)	6,126	1,497	2,823	650
2612671	Tissue paper, except sanitary and thin paper:										
2612671	Wrapping tissue.....	44,099	12,252	11,331	3,011	32,404	9,400	57,644	14,774	8,222	1,144
2612672	Waxing tissue stock.....	102,008	23,326	58,328	13,600	43,798	9,773	41,065	8,236	12,269	2,292
2612673	Twisting tissue stock.....	8,982	2,666	(D)	(D)	(D)	(D)	26,136	7,235	xxx	xxx
2612674	Fruit and vegetable wraps.....	27,210	6,923	5,722	1,254	21,670	5,662	41,058	8,455	xxx	xxx
2612675	Pattern tissue stock.....	6,699	1,643	(D)	(D)	(D)	(D)	7,055	1,996	xxx	xxx
2612676	Sales—book tissue stock.....	1,002	306	...	...	994	304	1,442	363	xxx	xxx
2612677	Crepe wadding for packing.....	21,819	8,431	...	...	21,321	8,428	8,938	1,973	7,024	1,410
2612677	Other.....	14,523	4,196	4,375	1,005	9,625	3,182	8,478	2,293	xxx	xxx
26126	Container board.....	6,487,984	657,829	2,603,150	261,737	3,884,209	395,768	4,943,694	456,209	2,092,740	186,071
2612611	Liners:										
2612611	Kraft.....	3,565,265	363,496	1,181,227	121,932	2,366,118	241,528	1,927,844	183,512	528,617	49,891
2612615	June.....	822,120	75,001	594,275	54,434	218,483	20,531	1,348,706	126,642	804,064	72,536
2612617	Other liners.....	7,004	620	5,112	440	2,023	177	16,684	1,967	xxx	xxx
2612631	Corrugating material:										
2612631	Kraft.....	139,090	15,019	42,507	4,480	95,330	10,436	171,576	18,639	115,719	11,140
2612633	Straw.....	251,844	27,806	180,499	19,917	71,243	7,883	409,871	36,645	234,970	19,536
2612635	Semichemical.....	1,101,194	120,368	291,799	31,385	809,118	82,990	465,686	37,924	171,402	13,712
2612637	Other corrugating material (including bogs).....	380,197	35,993	189,656	18,787	185,519	17,175	323,359	29,387	96,040	8,817
2612651	Container chipboard										
2612651	Solid fiber board, for filler board.....	106,861	106,618	73,586	6,289	31,966	3,090	154,746	153,172	111,981	8,298
2612655	Other container chipboard.....	114,409	112,898	44,489	4,073	68,409	5,958	125,222	125,042	91,905	2,141
26127	Bending board, including special food board	3,579,867	484,467	1,623,545	216,575	1,939,039	267,594	2,757,889	294,439	1,165,196	118,261
2612711	Folding boxboard stock:										
2612711	Unlined chipboard.....	336,560	32,805	91,900	7,891	240,904	22,573	261,134	260,108	112,208	8,506
2612713	Single and double manila lined chipboard.....	691,992	80,791	351,300	41,792	334,081	38,922	601,168	597,761	285,380	25,229
2612715	Single and double lined chipboard, except manila.....	317,006	34,881	160,599	18,297	159,130	16,521	426,211	428,762	191,220	15,261
2612721	Patent coated, all types.....	673,823	92,394	378,211	49,576	298,434	42,598	1,568,754	1,462,771	1,274,919	14,295,591
2612723	Clay coated.....	187,493	27,916	120,542	16,479	67,157	11,424	1,113,517	1,112,261	1,456,598	1,475,573
2612725	Other machine coated.....	71,833	(D)	(D)	(D)	(D)	(D)	14,487,882	145,801	1,428,124	1,431,148
2612731	Other folding boxboard stock.....	161,550	22,464	30,542	3,853	126,805	18,586	113,287	11,163	37,755	3,221
2612741	Other bending board:										
2612741	Unlined chipboard.....	21,031	(D)	(D)	(D)	(D)	(D)	18,214	1,682	xxx	xxx
2612742	Single and double manila lined chipboard.....	24,492	3,229	7,782	1,179	16,621	2,045	109,721	110,572	xxx	xxx
2612745	Single and double lined chipboard, except manila.....	(15)	(15)	(15)	(15)	(15)	(15)	4,602	460	xxx	xxx
2612747	Coated board:										
2612747	Patent coated, all types.....	9,348	1,762	6,976	1,410	2,396	347	(14)	(14)	(14)	(14)

See footnotes at end of table.



Table 6A—QUANTITY AND VALUE OF PRODUCTS SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, FOR THE UNITED STATES: 1954 AND 1947—Continued

Product code	Product	1954						1947					
		Total shipments including interplant transfers						Total shipments including interplant transfers					
		Production (tons of 2,000 lbs. air-dry)		Interplant transfers		Commercial (market) shipments		Production (tons of 2,000 lbs. air-dry)		Total shipments <sup>2</sup>		Interplant transfers	
		Quantity (tons of 2,000 lbs. air-dry)	Value (\$1,000)	Quantity (tons of 2,000 lbs. air-dry)	Value (\$1,000)	Quantity (tons of 2,000 lbs. air-dry)	Value (\$1,000)	Quantity (tons of 2,000 lbs. air-dry)	Value (\$1,000)	Quantity (tons of 2,000 lbs. air-dry)	Value (\$1,000)	Quantity (tons of 2,000 lbs. air-dry)	Value (\$1,000)
2612--- 26127	Paper and paperboard mills—Continued Bending board, including special food board—Continued												
	Special food board (including solid chemical pulp and lined manila board):												
2612751	Milk bottle stock.....	377,602	58,565	170,604	26,238	199,242	32,316	115,188	15,649	112,601	15,649	56,256	7,966
2612753	Milk bottle hood and lip cover stock.....	16,029	2,929	...	...	16,029	2,929	16,074	2,978	16,143	2,978	xxx	xxx
2612755	Liquid tight container stock.....	38,538	6,530	23,104	3,998	16,020	2,824	38,428	5,643	38,511	5,643	15,990	2,559
2612757	Cup lid stock.....	22,548	4,034	22	41	22,669	4,008	10,789	1,541	9,563	1,541	xxx	xxx
2612761	Cup and round nested food container stock (90 lb. and up).....	173,019	174,026	12,412	2,234	161,614	27,523	78,034	11,799	79,483	11,799	xxx	xxx
2612763	Milk bottle plug stock.....	18,965	3,466	8,252	1,338	10,713	808	19,937	2,784	19,809	2,784	xxx	xxx
2612765	Ice cream and food pail stock.....	12,177	2,146	8,252	1,338	4,013	808	35,555	5,497	36,874	5,497	20,226	3,046
2612767	Plate, dish, and tray stock.....	65,201	64,876	31,559	4,923	33,337	5,652	18,674	2,712	18,622	2,712	xxx	xxx
2612771	Frozen food container stock.....	70,989	12,911	39,434	7,179	31,265	5,802	16,118	2,462	16,224	2,462	6,106	866
2612773	Butter, oleo, shortening, and ice cream carton stock.....	181,051	181,148	118,695	21,086	62,453	11,386	108,591	15,271	108,657	15,271	80,470	11,495
2612775	Other special food board container stock for liquid, moist or oily foods.....	24,491	4,009	11,607	1,736	12,452	2,273	2,787	364	2,767	364	xxx	xxx
2612781	Solid chemical pulp and lined manila board (except special food board).....	61,911	6,960	30,720	3,203	30,740	3,752	28,771	3,746	28,826	3,746	xxx	xxx
2612798	Other bending board <sup>15</sup> .....	22,218	2,515	5,792	763	16,329	1,743	4,424	348	4,155	348	xxx	xxx
26128	Nonbending board.....	922,569	78,256	138,213	10,722	785,364	67,461	705,424	60,930	701,003	60,930	51,768	3,709
2612811	Setup boxboard, unpasted:												
2612811	News-lined chipboard.....	404,369	405,122	43,947	3,042	361,175	28,288	282,183	23,215	276,730	23,215	20,477	1,205
2612812	Other lined and unlined chipboard.....	276,298	275,255	69,597	5,353	205,656	18,809	268,719	23,889	269,666	23,889	19,273	1,296
2612831	Solid newsboard.....	22,514	2,202	6,203	590	16,218	1,597	39,114	2,969	39,145	2,969	xxx	xxx
2612835	Strawboard, including straw combinations.....	14,993	1,694	(*)	(*)	415,089	41,694	...	...	...	...	...	...
2612841	Other setup boxboard.....							4,739	464	4,757	464	xxx	xxx
2612851	Other nonbending board:												
2612851	News-lined chipboard.....	96,002	97,059	6,486	760	90,573	7,762	24,265	2,349	24,486	2,349	xxx	xxx
2612861	Other lined and unlined chipboard.....	56,352	56,633	9,081	699	47,552	4,372	67,272	6,177	67,368	6,177	12,018	1,208
2612871	Solid newsboard.....	15,608	1,581	(*)	(*)	415,530	41,581	6,424	720	6,406	720	xxx	xxx
2612875	Strawboard, including straw combinations.....	36,433	36,690	2,899	278	33,791	3,358	12,708	1,147	12,445	1,147	xxx	xxx
2612881	Nonbending board not listed above.....												
26129	Special paperboard, cardboard and wet machine board.....	1,336,280	1,325,295	685,835	61,432	639,432	93,205	929,603	102,742	923,104	102,742	348,677	31,857
2612911	Special paperboard stock:												
2612912	Tube stock.....	196,686	196,079	82,245	5,513	113,834	10,152	145,012	12,467	144,786	12,467	75,899	5,969
2612913	Can stock.....	23,543	23,535	(D)	(D)	(D)	(D)	38,405	3,898	38,774	3,898	23,840	2,200
2612915	Drum stock.....	72,863	(D)	(D)	(D)	(D)	(D)	13,524	1,471	13,119	1,471	xxx	xxx
2612917	Solid wood pulp board (groundwood).....	7,285	3,926	...	...	32,926	3,463	32,396	3,395	32,336	3,395	xxx	xxx
2612919	March board (split stock).....	30,704	30,823	20,327	1,936	10,496	922	45,751	3,572	44,998	3,572	17,310	1,368
2612921	Egg case filler board.....	22,541	22,446	...	...	22,446	2,674	267,527	28,422	270,533	28,422	146,209	15,775
2612923	Panel board.....	513,274	509,845	404,986	32,913	104,859	9,075	57,368	3,720	57,196	3,720	37,196	2,555
2612925	Liner for gypsum and plaster board.....	41,851	41,698	3,435	(D)	(D)	(D)	8,643	752	8,643	752	4,054	244
2612927	Laminated wallboard stock.....	12,675	12,325	826	(D)	(D)	(D)	1,679,335	16,997	1,679,335	16,997	1,679,335	16,997
2612929	Other building board stock.....	106,544	106,694	39,284	3,072	67,410	8,323						

See footnotes at end of table.

Table 6A—QUANTITY AND VALUE OF PRODUCTS SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, FOR THE UNITED STATES: 1954 AND 1947—Continued

Product code	Product	1954						1947					
		Total shipments including interplant transfers						Total shipments including interplant transfers					
		Production		Interplant transfers		Commercial (market) shipments		Production		Interplant transfers		Commercial (market) shipments	
		Quantity (tons of 2,000 lbs. air-dry)	Value (\$1,000)	Quantity (tons of 2,000 lbs. air-dry)	Value (\$1,000)	Quantity (tons of 2,000 lbs. air-dry)	Value (\$1,000)	Quantity (tons of 2,000 lbs. air-dry)	Value (\$1,000)	Quantity (tons of 2,000 lbs. air-dry)	Value (\$1,000)	Quantity (tons of 2,000 lbs. air-dry)	Value (\$1,000)
2612---	Paper and paperboard mills--Continued												
26129	Special paperboard, cardboard and wet machine board--Continued												
	Cardboard:												
2612931	Uncoated mill blanks and clay coated blanks.....	23,335	5,081	1,684	200	21,678	4,878	41,268	41,345	6,926	xxx	xxx	xxx
2612932	Clay coated tag stock.....	6,023	919	(D)	(D)	(D)	(D)	6,429	6,352	1,426	xxx	xxx	xxx
2612933	Photomount stock.....	17,124	3,377	...	...	17,025	3,377	25,643	25,835	4,190	xxx	xxx	xxx
2612934	Bogus Bristol.....	9,628	2,653	(D)	(D)	(D)	(D)	7,781	7,498	1,998	xxx	xxx	xxx
2612935	Playing card stock.....	5,983	1,262	...	...	5,925	1,262	5,292	4,743	860	xxx	xxx	xxx
2612936	Railroad and poster manila.....	24,791	7,415	(4)	(4)	4,253,364	47,415	5,445	5,415	1,113	xxx	xxx	xxx
2612937	Coated Bristol or post card stock.....	51,862	3,827	(D)	(D)	(D)	(D)	(16)	(16)	(16)	(16)	(16)	(16)
2612939	Other cardboard.....	40,408	4,644	(4)	(4)	4,39,700	4,644	52,596	52,453	5,929	xxx	xxx	xxx
2612941	Other paperboard.....	52,418	11,450	4,038	747	47,356	10,679	55,195	54,470	9,446	10,617	1,629	xxx
2612951	Binder's board.....	43,084	21,300	5,815	5,794	38,015	15,494	42,009	41,641	6,200	xxx	xxx	xxx
2612961	Shoe board.....	2,900,870	308,190	xxx	xxx	xxx	xxx	2,361,481	2,340,679	229,987	xxx	xxx	xxx
2613---	Building paper and board, total.....	1,428,349	121,131	1,138,778	84,251	284,172	36,789	1,289,109	1,289,130	113,148	1,020,649	80,124	xxx
26131	Construction paper (dry basis before saturating).....	23,497	2,274	5,203	381	18,180	1,878	27,336	39,401	4,097	18,953	1,646	xxx
2613111	Sheathing paper.....	1,089,518	70,863	958,650	62,297	129,656	8,514	929,179	916,758	66,184	805,936	57,231	xxx
2613121	Floor covering felts.....	114,740	10,421	97,942	9,308	14,791	1,708	129,438	129,881	14,480	102,893	11,881	xxx
2613123	Automotive felts.....	40,388	4,826	22,636	1,900	17,466	2,882	31,323	32,358	2,734	20,792	1,693	xxx
2613125	Other felts.....	19,151	2,763	3,557	437	13,205	2,318	25,851	25,709	2,782	14,438	1,257	xxx
2613127	Asbestos paper and asbestos filled paper.....	81,173	15,277	44,285	8,640	35,070	6,631	97,119	96,760	10,592	57,658	6,416	xxx
2613131	Flexible wood fiber insulation and other construction paper.....	59,882	14,707	4,495	1,248	55,804	13,458	48,263	48,263	11,279	xxx	xxx	xxx
2613151													

See footnotes at end of table.

Table 6A—QUANTITY AND VALUE OF PRODUCTS SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, FOR THE UNITED STATES: 1954 AND 1947--Continued

Product code	Product	1954		1947	
		Production	Total shipments including interplant transfers	Production	Total shipments including interplant transfers
			Quantity Value (\$1,000)		Quantity Value (\$1,000)
2613----	Building paper and board--Continued				
	Building board--Continued				
	Insulating wallboard, density 26 lbs. or less per cubic foot:				
	Short ton (2,000 lbs. air-dry).....	262,053	261,954	173,622	173,622
	Thousand sq. ft. 1/2" basis.....	722,554	728,146	502,627	491,570
	Building board, natural:				
2613215	Short ton (2,000 lbs. air-dry).....	54,388	54,248		
2613X15	Thousand sq. ft. 1/2" basis.....	119,054	118,950		
	Lath for plaster base:				
2613217	Short ton (2,000 lbs. air-dry).....	3,041	3,119		
2613X17	Thousand sq. ft. 1/2" basis.....	8,134	8,380		
	Roof insulation board:				
2613221	Short ton (2,000 lbs. air-dry).....	150,778	152,006		
2613X21	Thousand sq. ft. 1/2" basis.....	458,935	466,730		
	Insulating roof deck:				
2613225	Short ton (2,000 lbs. air-dry).....	53,846	52,581		
2613X25	Thousand sq. ft. 1/2" basis.....	136,431	134,086		
	Interior board, finished, total:				
	Short ton (2,000 lbs. air-dry).....	311,606	312,026		
	Thousand sq. ft. 1/2" basis.....	788,974	787,131		
	Board:				
2613231	Short ton (2,000 lbs. air-dry).....	79,602	79,675		
2613X31	Thousand sq. ft. 1/2" basis.....	200,688	201,139		
	Panel and tile, except acoustical:				
2613235	Short ton (2,000 lbs. air-dry).....	132,646	133,454		
2613X35	Thousand sq. ft. 1/2" basis.....	315,679	316,636		
	Acoustical tile:				
2613237	Short ton (2,000 lbs. air-dry).....	81,525	80,839		
2613X37	Thousand sq. ft. 1/2" basis.....	226,280	222,531		
	Plank and other factory-finished interior board:				
2613241	Short ton (2,000 lbs. air-dry).....	17,833	18,058		
2613245	Thousand sq. ft. 1/2" basis.....	46,327	46,825		
2613X41					
2613X45					
	Sheathing board:				
2613251	Short ton (2,000 lbs. air-dry).....	266,292	266,310		
2613X51	Thousand sq. ft. 1/2" basis.....	686,229	686,140		

See footnotes at end of table.



Table 6A—QUANTITY AND VALUE OF PRODUCTS SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, FOR THE UNITED STATES: 1954 AND 1947—Continued

Product code	Product	1954			1947		
		Production	Total shipments including interplant transfers		Production	Total shipments including interplant transfers	
			Quantity	Value (\$1,000)		Quantity	Value (\$1,000)
2613--	Building paper and board--Continued						
	Building board--Continued						
2613255	Insulating siding base:						
2613X55	Short ton (2,000 lbs. air-dry).....	98,163	97,003	9,805 xxx			
	Thousand sq. ft. 1/2" basis.....	254,754	252,398				
2613257	Shingle backer:						
2613X57	Short ton (2,000 lbs. air-dry).....	21,857	21,535	2,634 xxx	117,006	114,605	14,367 xxx
	Thousand sq. ft. 1/2" basis.....	67,585	67,086		316,499	314,135	
2613261	Thinboard (7/16" or less):						
2613X61	Short ton (2,000 lbs. air-dry).....	14,502	14,382	1,796 xxx			
	Thousand sq. ft. 1/2" basis.....	41,045	40,855				
2613265	Other insulating board:						
2613X65	Short ton (2,000 lbs. air-dry).....	33,180	33,000	7,161 xxx			
	Thousand sq. ft. 1/2" basis.....	89,068	87,928				

xxx Not applicable.

D Withheld to avoid disclosing figures for individual companies.

NA Not available.

1The sum of interplant transfers and market shipments may not equal totals due to independent rounding and insignificant differences between reported detail and sum of the detail.

2The difference between total shipments and interplant transfers represents Commercial "Market Shipments".

3Gulfite and sulfate for chemical conversion, paper making and other uses.

4Interplant transfers and commercial (market) shipments are combined to avoid disclosing the operations of individual companies. In each instance the combination is made in the category in which all but an insignificant amount of the activity has been reported.

5Includes small production of a few integrated establishments classified in other industries which did not report their pulp and paper manufacturing activity separately.

6Includes value of a small quantity of miscellaneous pulp produced and shipped by establishments primarily engaged in the manufacture of paper and board.

7Includes alcohol not reported separately.

8Consists entirely of body stock for coating (code 2612135).

9Colored school paper is included with "other converting" (code 2612137).

10Includes other Bristol, except rag index and borus.

11Not available separately. The 1947 figures include data for code 2612445 and code 2612413, except for car liners and side rolls.

12Asphalting paper including creped or creping stock for asphaltting, other creping, twisting and spinning stock (17 lb. and up) and tyman are included with other converting paper.

13Includes Manila board.

14Patent coated (all types), clay coated and other machine coated board, includes other bending coated board by respective types.

15Data for code 2612745 have been included with code 2612778, for 1944.

16Panel board (code 2612921) and other paperboard (code 2612941) are included with other special paperboard stock (code 2612929).

17Data not exactly comparable since the information in 1947 was reported in total square footage.

18Corresponding 1947 data are not available on a comparable basis due to changes in detailed product classification.

## PULP, PAPER, AND PAPERBOARD

26A-19

Table 6B.—VALUE OF PRODUCT CLASSES SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, BY DIVISIONS AND STATES FOR 1954, AND UNITED STATES TOTALS FOR EARLIER YEARS

(In thousands of dollars. Statistics are shown for selected product classes which are economically significant and production of which is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (Table 2) and they are not miscellaneous or "not specified by type" classes. For each product class, States are listed only if the value of shipments is more than \$1 million and the figure does not disclose individual company information. Additional States which had shipments of more than \$1 million of the individual product classes are listed in footnote 1.)

Product class, region, and State <sup>1</sup>	Value of shipments	Product class, region, and State <sup>1</sup>	Value of shipments	Product class, region, and State <sup>1</sup>	Value of shipments
<u>Bleached sulfite wood pulp</u> (26112)		<u>Unbleached sulfate wood pulp</u> (26115)—Continued		<u>Semichemical, defibrated and other wood pulp (26118)—Continued</u>	
1954 United States, total.....	216,813	1951 United States, total.....	393,159		
1947 United States, total.....	176,005	1950 United States, total.....	306,677	West North Central.....	6,026
1954		1947 United States, total.....	270,947	South Atlantic.....	28,364
New England.....	36,817	1954		Virginia.....	7,244
Maine.....	29,036	South Atlantic.....	291,723	North Carolina.....	7,726
Middle Atlantic.....	22,316	Virginia.....	34,317	East South Central.....	16,716
North Central.....	73,620	Georgia.....	82,648	West South Central.....	14,028
Wisconsin.....	59,182	Florida.....	102,238	Pacific.....	13,257
Pacific.....	84,054	East South Central.....	22,972	Washington.....	2,398
		West South Central.....	96,997	Oregon.....	2,516
		West.....	50,013	California.....	8,342
<u>Unbleached sulfite wood pulp</u> (26113)		Washington.....	39,207	<u>Newsprint and uncoated groundwood paper (26121)</u>	
1954 United States, total.....	60,758	<u>Groundwood pulp (26117)</u>		1954 United States, total.....	266,186
1953 United States, total.....	72,290	1954 United States, total.....	139,108	1953 United States, total.....	261,841
1952 United States, total.....	82,335	1953 United States, total.....	138,636	1952 United States, total.....	254,462
1951 United States, total.....	97,762	1952 United States, total.....	137,673	1951 United States, total.....	242,085
1950 United States, total.....	69,987	1951 United States, total.....	129,635	1950 United States, total.....	199,766
1947 United States, total.....	87,483	1950 United States, total.....	102,445	1947 United States, total.....	174,166
1954		1947 United States, total.....	95,879	1954	
New England.....	19,605	1954		New England.....	91,655
Middle Atlantic.....	8,882	New England.....	35,427	Middle Atlantic.....	42,423
North Central.....	6,256	Middle Atlantic.....	18,172	New York.....	42,423
Wisconsin.....	3,203	East North Central.....	20,749	East North Central.....	17,883
Pacific.....	26,015	Wisconsin.....	17,245	West North Central.....	28,397
Washington.....	12,074	West North Central.....	12,262	Minnesota.....	28,397
Oregon.....	13,941	Minnesota.....	12,262	South.....	36,250
<u>Bleached and semibleached sulfate wood pulp (26114)</u>		South.....	26,504	Pacific.....	49,513
1954 United States, total.....	313,768	East South Central.....	15,713	<u>Paper-machine coated printing and converting paper (26122)</u>	
1953 United States, total.....	283,375	Mississippi.....	6,081	1954 United States, total.....	252,617
1952 United States, total.....	252,563	Pacific.....	23,979	1953 United States, total.....	(2)
1951 United States, total.....	224,960			1952 United States, total.....	(2)
1947 United States, total.....	90,914	<u>Semichemical defibrated and other wood pulp (26118)</u>		1951 United States, total.....	(2)
1954		1954 United States, total.....	111,286	1950 United States, total.....	(2)
Northeast.....	19,836	1953 United States, total.....	104,631	1947 United States, total.....	100,609
North Central.....	20,708	1952 United States, total.....	89,048	1954	
South Atlantic.....	94,194	1951 United States, total.....	83,242	New England.....	51,734
North Carolina.....	37,643	1950 United States, total.....	71,002	Maine.....	51,734
East South Central.....	62,583	1947 United States, total.....	54,833	Middle Atlantic.....	38,022
West South Central.....	48,529	1954		East North Central.....	112,191
West.....	67,902	New England.....	3,857	Wisconsin.....	85,991
Washington.....	47,623	Middle Atlantic.....	10,071		
<u>Unbleached sulfate wood pulp</u> (26115)		New York.....	4,384	<u>Book and fine paper, uncoated (26123)</u>	
1954 United States, total.....	479,614	New Jersey.....	3,161	1954 United States, total.....	782,805
1953 United States, total.....	422,524	Pennsylvania.....	2,526	1953 United States, total.....	(2)
1952 United States, total.....	391,952	East North Central.....	18,958	1952 United States, total.....	(2)
		Illinois.....	2,239	1951 United States, total.....	(2)
		Wisconsin.....	9,541		

See footnotes at end of table.

## MANUFACTURES—INDUSTRY STATISTICS

Table 6B.—VALUE OF PRODUCT CLASSES SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, BY DIVISIONS AND STATES FOR 1954, AND UNITED STATES TOTALS FOR EARLIER YEARS—Continued

Product class, region, and State <sup>1</sup>	Value of shipments	Product class, region, and State <sup>1</sup>	Value of shipments	Product class, region, and State <sup>1</sup>	Value of shipments
<u>Book and fine paper, uncoated</u> <u>(26123)—Continued</u>		<u>Sanitary tissue stock (26125)—</u> <u>Continued</u>		<u>Bending board, including special food</u> <u>board (26127)—Continued</u>	
1950 United States, total.....	( <sup>2</sup> )				
1947 United States, total.....	625,093	Middle Atlantic.....	141,826	North Central.....	168,451
1954		New York.....	65,319	Ohio.....	36,248
New England.....	198,674	New Jersey.....	14,963	Illinois.....	24,822
Maine.....	65,965	Pennsylvania.....	61,543	Michigan.....	67,358
Massachusetts.....	111,468			Wisconsin.....	13,570
Middle Atlantic.....	186,607	East North Central.....	113,023	South Atlantic.....	58,447
Pennsylvania.....	108,421	Wisconsin.....	92,851	Maryland.....	8,320
North Central.....	286,685	South.....	22,544	Virginia.....	22,407
Ohio.....	105,340	Pacific.....	35,308		
Michigan.....	74,898	Washington.....	25,816	East South Central.....	22,195
Wisconsin.....	77,973			West South Central.....	35,388
South Atlantic.....	55,627	<u>Container board (26126)</u>		West.....	63,145
Virginia.....	8,640	1954 United States, total.....	657,829	California.....	26,859
Pacific.....	32,624	1953 United States, total.....	641,776		
		1952 United States, total.....	581,846	<u>Nonbending board (26128)</u>	
		1951 United States, total.....	674,759	1954 United States, total.....	78,256
		1950 United States, total.....	511,536	1951 United States, total.....	72,869
		1947 United States, total.....	456,209	1950 United States, total.....	52,993
		1954		1947 United States, total.....	60,930
<u>Coarse, special industrial paper,</u> <u>including absorbent (26124)</u>		New England.....	9,882		
1954 United States, total.....	740,075	Middle Atlantic.....	26,831	1954	
1953 United States, total.....	759,471	New Jersey.....	11,921	New England.....	8,405
1952 United States, total.....	728,849	East North Central.....	109,517	Massachusetts.....	6,432
1951 United States, total.....	820,448	Ohio.....	24,153	Middle Atlantic.....	30,538
1950 United States, total.....	626,722	Indiana.....	9,993	New York.....	10,411
1947 United States, total.....	551,304	Illinois.....	22,216	New Jersey.....	9,499
1954		Michigan.....	30,601	Pennsylvania.....	10,628
New England.....	91,332	Wisconsin.....	22,553		
Massachusetts.....	34,971	West North Central.....	12,139	East North Central.....	19,722
Connecticut.....	3,560	South Atlantic.....	340,860	Ohio.....	7,216
Middle Atlantic.....	80,147	Virginia.....	40,767	Illinois.....	5,159
New York.....	33,550	Georgia.....	84,245	Michigan.....	2,820
North Central.....	134,800	Florida.....	107,080		
Ohio.....	22,972	East South Central.....	11,639	West North Central.....	2,585
Indiana.....	2,595	West South Central.....	84,830	South.....	12,412
Michigan.....	35,260	West.....	61,936	South Atlantic.....	6,899
Wisconsin.....	62,715	Washington.....	24,235		
South Atlantic.....	163,857	California.....	23,194	West.....	4,750
Virginia.....	29,952			California.....	3,760
East South Central.....	72,106	<u>Bending board, including special food</u> <u>board (26127)</u>		<u>Special paperboard, cardboard, and</u> <u>wet machine board (26129)</u>	
West South Central.....	116,078	1954 United States, total.....	484,467	1954 United States, total.....	154,800
West.....	81,748	1953 United States, total.....	483,346	1953 United States, total.....	131,054
Washington.....	62,883	1952 United States, total.....	447,543	1952 United States, total.....	121,347
		1951 United States, total.....	485,355	1951 United States, total.....	146,249
		1950 United States, total.....	351,586	1950 United States, total.....	114,579
		1947 United States, total.....	294,439	1947 United States, total.....	102,742
<u>Sanitary tissue stock (26125)</u>				1954	
1954 United States, total.....	352,665	1954		New England.....	29,881
1953 United States, total.....	324,348	New England.....	38,764	New Hampshire.....	3,846
1952 United States, total.....	305,126	Connecticut.....	26,331	Massachusetts.....	14,187
1951 United States, total.....	351,798			Connecticut.....	6,560
1950 United States, total.....	276,815	Middle Atlantic.....	98,029		
1947 United States, total.....	209,164	New York.....	49,627		
1954		New Jersey.....	21,804		
New England.....	40,294	Pennsylvania.....	26,597		
New Hampshire.....	17,628				
Vermont.....	1,850				
Massachusetts.....	9,385				

See footnotes at end of table.



## PULP, PAPER, AND PAPERBOARD

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Table 6B.--VALUE OF PRODUCT CLASSES SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, BY DIVISIONS AND STATES FOR 1954, AND UNITED STATES TOTALS FOR EARLIER YEARS--Continued

Product class, region, and State <sup>1</sup>	Value of shipments	Product class, region, and State <sup>1</sup>	Value of shipments	Product class, region, and State <sup>1</sup>	Value of shipments
<u>Special paperboard, cardboard, and wet machine board (26129) — Continued</u>		<u>Construction paper, unsaturated (26131) — Continued</u>		<u>Construction paper, unsaturated (26131) — Continued</u>	
Middle Atlantic.....	33,544	1950 United States, total.....	113,882	West South Central.....	10,430
New York.....	13,950	1947 United States, total.....	113,148	Texas.....	5,570
New Jersey.....	14,316			Pacific.....	13,331
Pennsylvania.....	5,278	1954			
East North Central.....	40,860	New England.....	3,485	<u>Insulating board and hard pressed wood fiber board (26132)</u>	
Ohio.....	12,124	Middle Atlantic.....	36,012	1954 United States, total.....	187,059
Indiana.....	5,257	New York.....	12,260	1953 United States, total.....	188,290
Michigan.....	16,994	New Jersey.....	16,622	1952 United States, total.....	173,220
West North Central.....	8,605	Pennsylvania.....	7,109	1951 United States, total.....	173,071
South Atlantic.....	20,373			1950 United States, total.....	161,515
West South Central.....	9,450	1947 United States, total.....		1954	116,839
West.....	11,655	East North Central.....	31,289	Northeast.....	9,839
California.....	9,278	Ohio.....	11,153	North Central.....	32,168
		Illinois.....	17,216	South.....	124,340
<u>Construction paper, unsaturated (26131)</u>				East South Central.....	64,996
1954 United States, total.....	121,131	West North Central.....	17,305	Pacific.....	20,712
1953 United States, total.....	108,360	South Atlantic.....	6,964	Oregon.....	8,344
1952 United States, total.....	108,469	East South Central.....	2,315		
1951 United States, total.....	127,317				

Note: The figures shown for 1950 to 1953 are sample estimates obtained from the Annual Survey of Manufactures for those years. Since the estimates are based on a sample they are subject to sampling variability, that is, they are not the same as figures which would have been obtained if complete censuses had been taken for those years. Measures of the sampling variability (standard errors) of the estimated total value of shipments of each product class are shown in the Annual Survey of Manufactures publications. Also shown are the standard errors of the relative change in shipments between some consecutive Annual Survey years which are the more significant measures when the series is studied for trend.

<sup>1</sup>For the specified product classes, shipments of over \$1 million were reported for the States listed but the exact figures are withheld to avoid disclosures of individual company figures: 26112, New Hampshire, Massachusetts, New York, Pennsylvania, Michigan, Minnesota, Washington, and Oregon, 26113, Maine, New York, and Minnesota; 26114, Maine, New York, Pennsylvania, Michigan, Wisconsin, Minnesota, Maryland, Virginia, Georgia, Florida, Tennessee, Alabama, Mississippi, Louisiana, Texas, Idaho, Oregon, and California; 26115, New Hampshire, New York, Michigan, Wisconsin, North Carolina, South Carolina, Alabama, Arkansas, Louisiana, Texas, and Oregon; 26117, Maine, Vermont, New York, Michigan, Virginia, Georgia, Tennessee, Alabama, Texas, Washington, and Oregon; 26118, New Hampshire, Ohio, Michigan, Minnesota, Maryland, South Carolina, Georgia, Florida, Tennessee, Mississippi, and Louisiana; 26121, Maine, Vermont, Michigan, Wisconsin, Tennessee, Alabama, Texas, Washington, and Oregon; 26122, New York, Pennsylvania, Ohio, Michigan, Maryland, Texas, Tennessee, and Oregon; 26123, New Hampshire, Connecticut, New York, New Jersey, Illinois, Minnesota, Delaware, Maryland, North Carolina, Tennessee, Louisiana, Texas, Washington, and Oregon; 26124, Maine, New Hampshire, Vermont, New Jersey, Pennsylvania, Illinois, Minnesota, Delaware, West Virginia, North Carolina, South Carolina, Georgia, Florida, Alabama, Mississippi, Arkansas, Louisiana, Texas, Idaho, Oregon, and California; 26125, Maine, Connecticut, Ohio, Michigan, Delaware, North Carolina, Tennessee, Mississippi, Oregon, and California; 26126, New Hampshire, Massachusetts, Connecticut, New York, Pennsylvania, Minnesota, Iowa, Kansas, Delaware, Maryland, North Carolina, South Carolina, Tennessee, Louisiana, Texas, Colorado, and Oregon; 26127, Vermont, Massachusetts, Indiana, Minnesota, North Carolina, Florida, Tennessee, Alabama, Mississippi, Louisiana, Texas, Idaho, and Washington; 26128, Connecticut, Indiana, Wisconsin, Minnesota, Maryland, West Virginia, North Carolina, Georgia, Tennessee, and Alabama; 26129, Maine, Vermont, Illinois, Wisconsin, Missouri, Kansas, Virginia, South Carolina, Florida, Oklahoma, and Washington; 26131, Rhode Island, Indiana, Wisconsin, Minnesota, Missouri, Maryland, Georgia, Alabama, Louisiana, Oregon, and California; 26132, Maine, Rhode Island, New Jersey, Minnesota, Iowa, Virginia, Georgia, Florida, Alabama, Mississippi, Louisiana, Washington, and California.

<sup>2</sup>Only combined totals are available for previous years: 1953, 26122 and 26123, \$961,977; 1952, 26122 and 26123, \$936,687; 1951, 26122 and 26123, \$998,951; 1950, 26122 and 26123, \$790,930.

## MANUFACTURES—INDUSTRY STATISTICS

Table 6C.—WOOD PULP PRODUCTION; WOOD PULP AND OTHER FIBROUS MATERIALS CONSUMPTION IN THE MANUFACTURE OF PAPER AND BOARD, AND PAPER AND BOARD PRODUCTION BY DIVISIONS AND STATES: 1954 AND 1947

(Quantities in tons of 2,000 lbs.)

Division and State	1954				1947			
	Wood pulp production	Wood pulp consumption	Other fibrous materials consumption	Paper and board production <sup>1</sup>	Wood pulp production	Wood pulp consumption	Other fibrous materials consumption	Paper and board production
United States, total.....	18,256,139	18,989,159	9,056,329	26,876,242	11,945,864	13,285,435	9,498,037	21,114,000
Northeast.....	2,576,371	4,149,274	3,220,000	7,264,875	2,478,283	3,949,992	3,521,550	6,945,376
New England.....	1,625,742	2,078,146	875,500	2,879,905	1,474,951	1,938,947	929,588	2,696,872
Maine.....	1,294,450	1,367,159	27,457	(1)	1,237,075	1,240,266	40,776	1,255,582
New Hampshire.....	(D)	209,981	(D)		174,137	199,246	41,491	223,713
Vermont.....	(D)	82,481	25,970		(D)	95,320	26,635	102,519
Massachusetts.....	(D)	345,755	414,830		(D)	342,425	471,457	742,096
Connecticut.....	(D)	(D)	286,856		...	(D)	(D)	(D)
Middle Atlantic.....	950,629	2,071,128	2,344,500	4,384,970	1,003,332	2,011,045	2,591,962	4,248,504
New York.....	540,774	998,218	873,992	(1)	645,955	1,127,647	874,699	1,849,873
New Jersey.....	84,135	254,247	813,066		68,620	265,419	1,004,006	1,105,145
Pennsylvania.....	325,720	818,663	657,442		288,757	617,979	713,257	1,293,486
North Central.....	2,069,698	3,410,780	3,622,468	6,720,398	1,660,748	2,817,890	4,195,866	6,420,692
East North Central.....	1,501,842	2,732,323	3,213,041	5,719,578	1,268,494	2,308,508	3,764,535	5,559,882
Ohio.....	82,168	552,142	901,151	(1)	(D)	483,243	1,114,774	1,463,461
Indiana.....	...	24,736	271,154		...	40,171	449,956	391,693
Illinois.....	77,939	138,943	754,491		(D)	140,166	777,922	776,221
Michigan.....	266,511	688,516	903,692		232,678	589,623	1,090,060	1,536,490
Wisconsin.....	1,075,224	1,327,986	382,553		922,732	1,055,305	331,823	1,392,017
West North Central.....	567,856	678,457	409,427	1,000,820	392,254	509,382	431,331	860,810
Minnesota.....	(D)	661,367	183,042	(1)	392,254	(D)	(D)	(D)
Iowa.....	(D)	(D)	83,092		...	(D)	(D)	(D)
Missouri.....	...	(D)	72,673		...	(D)	(D)	(D)
Kansas.....	...	(D)	69,810		...	(D)	(D)	(D)
South.....	10,169,250	9,060,441	1,454,852	9,965,262	5,760,401	5,309,961	1,167,771	6,045,761
South Atlantic.....	6,064,201	5,399,232	617,400	5,714,135	3,162,321	2,843,515	586,065	3,210,737
Delaware.....	...	26,720	25,333	(1)	...	19,675	40,509	50,291
Maryland.....	(D)	117,156	172,148		(D)	(D)	(D)	(D)
Virginia.....	845,152	847,739	122,772		630,384	644,191	134,567	746,277
West Virginia.....	...	6,211	(D)		(D)	3,151	25,580	25,713
North Carolina.....	859,692	645,845	91,059		474,020	336,821	101,327	389,236
South Carolina.....	(D)	918,447	(D)	(1)	(D)	(D)	(D)	(D)
Georgia.....	1,573,458	1,271,211	55,229		(D)	(D)	(D)	(D)
Florida.....	1,747,224	1,565,903	36,481		783,258	655,142	16,193	633,405
East South Central.....	1,934,501	1,517,708	179,909	1,675,886	994,921	985,704	128,539	1,047,836
Tennessee.....	(D)	245,395	122,266	(1)	(D)	127,180	103,259	211,284
Alabama.....	(D)	619,015	57,643		(D)	383,423	25,280	374,512
Mississippi.....	1,012,603	653,298	...		476,264	475,101	...	462,040
West South Central.....	2,170,548	2,143,501	657,543	2,575,241	1,603,159	1,480,742	453,167	1,787,188
Arkansas.....	(D)	343,837	24,167	(1)	(D)	(D)	(D)	(D)
Louisiana.....	1,456,837	1,480,476	399,476		1,128,727	1,129,102	345,721	1,342,559
Oklahoma.....	...	(D)	99,040		...	...	...	...
Texas.....	(D)	(D)	134,860		(D)	(D)	(D)	(D)
West.....	3,440,820	2,368,664	759,009	2,925,707	2,046,432	1,207,592	612,850	1,702,171
Pacific.....	(D)	(D)	(D)	(D)	2,046,432	(D)	(D)	(D)
Washington.....	2,382,945	1,276,007	(D)	(1)	1,591,229	745,833	108,371	816,709
Oregon.....	681,588	670,231	26,763		436,078	387,704	2,376	371,626
California.....	(D)	(D)	647,168		19,125	(D)	(D)	(D)

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>Data not available on the production of paper and board by States.

## PULP, PAPER, AND PAPERBOARD

26A-23

Table 6D.—PAPER AND BOARD PRODUCTION, BY MAJOR GRADES, BY REGIONS AND DIVISIONS: 1954<sup>1</sup>

(In tons of 2,000 lbs.)

Major grade	United States total	Northeast			North Central			
		Total	New England	Middle Atlantic	Total	East North Central	West North Central	
All grades, total.....	26,876,242	7,264,875	2,879,905	4,384,970	6,720,398	5,719,578	1,000,820	
Paper, total.....	11,648,672	4,234,520	2,143,642	2,090,878	2,898,253	2,603,290	294,963	
Newsprint.....	1,202,413	509,719	(D)	(D)	13,322	(D)	(D)	
Groundwood paper, uncoated.....	788,218	479,684	248,870	230,814	(D)	(D)	164,437	
Paper machine coated printing and converting.....	1,221,700	429,622	221,025	208,597	525,029	525,029	...	
Book paper, uncoated.....	1,577,442	751,320	301,450	449,870	602,197	(D)	(D)	
Fine paper.....	1,284,526	591,792	334,067	257,725	492,898	(D)	(D)	
Coarse paper.....	3,461,611	398,489	233,696	164,793	460,575	(D)	(D)	
Special industrial paper.....	500,525	234,130	137,096	97,034	42,960	(D)	(D)	
Sanitary tissue stock.....	1,385,895	751,863	179,492	572,371	404,469	404,469	...	
Tissue paper, except sanitary and thin paper.....	226,342	87,901	(D)	(D)	97,977	97,977	...	
Paperboard, total.....	12,190,790	2,381,567	581,896	1,799,671	3,007,134	2,693,748	313,386	
Container board.....	6,487,984	413,310	110,119	303,191	1,194,223	1,080,329	113,894	
Bending board.....	3,579,867	1,079,693	296,891	782,802	1,229,807	1,153,598	76,209	
Nonbending board.....	922,569	488,920	103,527	385,393	238,840	211,281	27,559	
Cardboard.....	86,908	(D)	(D)	13,339	41,556	41,556	...	
Special paper board stock and other.....	1,113,462	(D)	(D)	314,946	302,708	206,984	95,724	
Wet machine board, total.....	135,910	94,517	54,614	39,903	(D)	(D)	...	
Construction paper and board, total.....	2,900,870	554,271	99,753	454,518	(D)	(D)	392,471	
Construction paper.....	1,428,349	463,959	(D)	(D)	(D)	(D)	118,446	
Insulating board and hardboard.....	1,472,521	90,312	(D)	(D)	274,025	...	274,025	
		South			West			
		Total	South Atlantic	East South Central	West South Central	Total	Mountain	Pacific
All grades, total.....	9,965,262	5,714,135	1,675,886	2,575,241	2,925,707	(D)	(D)	
Paper, total.....	3,221,421	1,366,653	790,135	1,064,633	1,294,478	(D)	(D)	
Newsprint.....	(D)	...	(D)	(D)	(D)	...	(D)	
Groundwood paper, uncoated.....	(D)	...	(D)	(D)	(D)	...	(D)	
Paper machine coated printing and converting.....	(D)	(D)	(D)	(D)	(D)	...	(D)	
Book paper, uncoated.....	183,677	116,497	(D)	(D)	40,248	...	40,248	
Fine paper.....	119,745	83,491	(D)	(D)	80,091	...	80,091	
Coarse paper.....	2,140,614	1,036,585	434,258	669,771	461,933	...	461,933	
Special industrial paper.....	177,976	(D)	(D)	(D)	45,459	(D)	(D)	
Sanitary tissue stock.....	77,739	(D)	(D)	...	151,824	...	151,824	
Tissue paper, except sanitary and thin paper.....	(D)	...	(D)	...	(D)	...	(D)	
Paperboard, total.....	5,534,762	4,100,783	309,800	1,124,179	1,267,327	(D)	(D)	
Container board.....	4,264,604	3,372,387	104,525	787,692	615,847	(D)	(D)	
Bending board.....	802,958	424,186	151,478	227,294	467,409	(D)	(D)	
Nonbending board.....	(D)	(D)	(D)	(D)	(D)	(D)	(D)	
Cardboard.....	...	...	...	...	(D)	...	(D)	
Special paper board stock and other.....	318,138	219,227	(D)	(D)	137,196	(D)	(D)	
Wet machine board, total.....	(D)	(D)	...	...	(D)	...	(D)	
Construction paper and board, total.....	(D)	(D)	575,951	386,429	(D)	...	(D)	
Construction paper.....	(D)	94,209	(D)	(D)	(D)	...	(D)	
Insulating board and hardboard.....	907,919	(D)	(D)	(D)	200,265	...	200,265	

D Withheld to avoid disclosing figures for individual companies.



## MANUFACTURES—INDUSTRY STATISTICS

Table 7A.—MATERIALS CONSUMED, BY KIND: 1954 AND 1947

Code	Description of materials	Unit of measure	1954		1947		
			Consumption of materials received from other establishments		Consumption of materials produced in the same establishment Quantity	Consumption of materials	
			Quantity	Delivered cost (\$1,000)		Quantity	Delivered cost (\$1,000)
	INDUSTRY 2611—PULP MILLS						
	Materials, pulpwood, chemicals, and mill supplies, total..	.....	xxx	794,166	xxx	xxx	478,394
	Pulpwood:						
	Softwood:						
241131	Bolts and lags: Spruce and true fir.....	Cords of 128 cubic feet.	4,200,487	120,952	48,231	3,995,172	102,956
241133	Hemlock.....	.....do.....	2,663,969	58,776	189,922	2,904,817	53,660
241135	Jack pine.....	.....do.....	686,129	16,609	...	797,113	15,532
241137	Southern pine.....	.....do.....	13,990,613	250,154	19,732	8,144,772	117,643
241139	Other softwoods.....	.....do.....	1,096,790	18,312	154,568	} 953,980	12,469
242171	Slabs, chips, and mill waste.....	.....do.....	1,840,683	24,750	xxx		
	Hardwood:						
	Bolts and lags:						
241141	Northern mixed hardwoods.....	.....do.....	979,351	20,544	...	577,007	11,825
241143	Poplar (aspen and popple).....	.....do.....	1,208,134	23,156	...	881,679	16,531
241145	Southern mixed hardwoods.....	.....do.....	1,558,380	24,046	...	839,545	12,322
241149	Other hardwoods.....	.....do.....	983,416	14,871	...	} 251,226	2,021
242175	Slabs, chips, and mill waste.....	.....do.....	58,958	697	xxx		
	Chemicals:						
147711	Crude sulfur.....	Long ton.....	399,650	15,583	xxx	(NA)	} 133,435
281211	Chlorine.....	Short ton.....	355,233	24,352	68,420	1246,961	
281221	Sodium hydroxide (caustic soda).....	Short ton (basis 100% NaOH).	232,714	13,580	50,859	1160,006	
281231	Sodium carbonate (soda ash).....	Short ton (basis 58% Na2O).	240,207	8,280	xxx	1259,447	
281971	Sodium sulfate.....	Short ton.....	716,761	19,037	xxx	1619,047	
970000	All other materials, chemicals, and mill supplies.....	.....	xxx	140,467	xxx	xxx	
	INDUSTRY 2612—PAPER AND PAPERBOARD MILLS						
	Materials and supplies, total.....	.....	xxx	2,183,075			
	Wood pulp:						
261111	Own wood pulp, produced at the same location or at other affiliated or associated mills.....	Short ton.....	14,711,700	1,179,623	} (NA)	(NA)	(NA)
261115	Purchased (market) wood pulp.....	.....do.....	2,640,827	337,355			
941260	Waste paper.....	.....do.....	7,086,517	216,547			
941270	Other fibrous materials (rag, straw, etc.).....	.....do.....	513,000	38,067			
281211	Chlorine.....	.....do.....	56,460	3,999			
970000	All other materials and components, containers, and supplies.....	.....	xxx	407,484			
	INDUSTRY 2613—BUILDING PAPER AND BOARD MILLS						
	Materials and supplies, total.....	.....	xxx	134,167			
	Wood pulp:						
261111	Own wood pulp, produced at the same location or at other affiliated or associated mills.....	Short ton.....	1,555,960	59,852	} (NA)	(NA)	(NA)
261115	Purchased (market) wood pulp.....	.....do.....	80,672	4,746			
941260	Waste paper.....	.....do.....	770,120	15,403			
941270	Other fibrous materials (rag, straw, etc.).....	.....do.....	686,692	12,374			
970000	All other materials and components, containers, and supplies.....	.....	xxx	41,792			

xxx Not applicable. NA Not available. <sup>1</sup>Represents quantities reported by establishments classified in Industries 2611, 2612, and 2613.

Note: Pulpwood quantity data for 1954 and 1947 are not strictly comparable because the data for 1954 were requested on a roughwood basis and the totals for 1947 combined quantities on a roughwood and a peeled and rossed basis. For 1947, of the 19,345,311 cords reported in total, roughwood amounted to 16,891,955 cords.

## PULP, PAPER, AND PAPERBOARD

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Table 7B.—PULFWOOD CONSUMED IN THE MANUFACTURE OF WOOD PULP, BY KIND OF WOOD, BY DIVISIONS AND STATES: 1954  
(Quantities in cords of 128 cubic feet)

Division and State	Kind of wood							
	Total softwoods and hardwoods	Softwood						Slabs, chips and mill waste
		Total softwoods	Bolts and logs				Other softwoods	
			Spruce and true fir	Hemlock	Jack pine	Southern pine		
United States, total.....	29,679,363	24,891,124	4,248,718	2,853,891	686,129	14,010,345	1,251,358	1,840,683
Northeast.....	4,036,167	2,964,632	2,411,089	154,726	172,172	...	208,612	18,033
New England.....	2,600,275	2,004,971	1,724,207	124,414	(D)	...	89,861	(D)
Maine.....	2,031,245	1,683,548	1,454,568	124,414	(D)	...	48,508	(D)
New Hampshire.....	456,123	259,786	(D)	...	...	...	(D)	...
Vermont.....	2,425	(D)	(D)	...	...	...	...	...
Massachusetts.....	63,481	(D)	(D)	...	...	...	...	...
Middle Atlantic.....	1,435,892	939,661	686,882	30,312	(D)	...	118,751	(D)
New York.....	807,231	(D)	546,326	12,101	(D)	...	36,370	...
New Jersey.....	80,753	(D)	...	...	(D)	...	30,570	...
Pennsylvania.....	547,908	252,154	140,556	18,211	(D)	...	51,811	(D)
North Central.....	3,057,791	1,794,069	1,052,191	100,541	(D)	...	(D)	51,441
East North Central.....	2,349,016	1,385,672	853,637	(D)	(D)	...	(D)	(D)
Ohio.....	142,728	(D)	...	...	...	...	...	(D)
Illinois.....	55,946	(D)	...	...	...	...	(D)	(D)
Michigan.....	401,653	191,148	(D)	(D)	(D)	...	...	...
Wisconsin.....	1,748,689	1,137,759	(D)	99,291	286,611	...	(D)	...
West North Central.....	708,775	408,397	198,554	(D)	163,218	...	37,024	(D)
Minnesota.....	(D)	(D)	198,554	(D)	163,218	...	(D)	(D)
South.....	16,717,827	14,345,430	...	...	(D)	14,010,345	(D)	56,242
South Atlantic.....	9,847,966	8,867,062	...	...	(D)	8,550,753	(D)	(D)
Maryland.....	162,449	(D)	...	...	(D)	(D)	...	...
Virginia.....	1,393,141	1,144,630	...	...	...	1,144,630	...	...
North Carolina.....	1,501,465	1,199,137	...	...	...	1,199,137	...	...
South Carolina.....	1,382,496	1,248,549	...	...	...	(D)	...	(D)
Georgia.....	2,605,726	2,417,981	...	...	...	2,416,301	...	(D)
Florida.....	2,802,689	(D)	...	...	...	2,497,565	(D)	(D)
East South Central.....	3,168,840	2,054,911	...	...	...	2,054,911	...	...
Tennessee.....	312,527	(D)	...	...	...	(D)	...	...
Alabama.....	1,136,104	(D)	...	...	...	(D)	...	...
Mississippi.....	1,720,209	822,934	...	...	...	822,934	...	...
West South Central.....	3,701,021	3,423,457	...	...	...	3,404,681	(D)	(D)
Arkansas.....	623,506	(D)	...	...	...	(D)	...	(D)
Louisiana.....	2,462,783	(D)	...	...	...	2,232,407	...	(D)
Texas.....	614,732	(D)	...	...	...	(D)	(D)	...
West.....	5,867,578	5,786,993	785,438	2,598,624	...	...	687,964	1,714,967
Pacific.....	(D)	(D)	785,438	2,598,624	...	...	(D)	1,714,967
Washington.....	4,189,456	4,108,871	332,258	2,224,219	...	...	284,718	1,267,676
Oregon.....	939,160	939,160	(D)	374,405	...	...	(D)	248,947
California.....	(D)	(D)	(D)	...	...	...	(D)	198,344

See footnote at end of table.

## MANUFACTURES—INDUSTRY STATISTICS

Table 7B.—PULPWOOD CONSUMED IN THE MANUFACTURE OF WOOD PULP, BY KIND OF WOOD, BY DIVISIONS AND STATES: 1954—Continued

Division and State	Kind of wood—Continued					
	Hardwood					Slabs, chips and mill waste
	Total hardwoods	Bolts and logs			Other hardwoods	
Northern mixed hardwoods		Poplar (aspen and popple)	Southern mixed hardwoods			
United States, total.....	4,788,239	979,351	1,208,134	1,558,380	983,416	58,958
Northeast.....	1,071,535	771,432	(B)	...	58,237	(D)
New England.....	595,304	473,406	(D)	...	...	(D)
Maine.....	347,697	267,599	80,098	...	...	...
New Hampshire.....	196,337	196,337	...	...	...	...
Vermont.....	(D)	(D)	(D)	...	...	...
Massachusetts.....	(D)	9,470	(D)	...	...	...
Middle Atlantic.....	476,231	298,026	119,968	...	58,237	...
New York.....	(D)	(D)	97,855	...	...	...
New Jersey.....	(D)	(D)	...	...	...	...
Pennsylvania.....	285,349	204,999	22,113	...	58,237	...
North Central.....	1,263,722	(D)	(D)	(D)	(D)	(D)
East North Central.....	963,344	165,455	(D)	(D)	(D)	...
Ohio.....	(D)	(D)	...	...	(D)	...
Illinois.....	(D)	(D)	(D)	(D)	...	...
Michigan.....	210,505	(D)	(D)	...	...	...
Wisconsin.....	610,930	56,049	539,867	...	15,014	...
West North Central.....	300,378	(D)	258,568	...	(D)	(D)
Minnesota.....	300,378	(D)	258,568	...	(D)	(D)
South.....	2,372,397	...	...	(D)	787,649	(D)
South Atlantic.....	980,904	...	...	822,631	158,273	...
Maryland.....	(D)	...	...	(D)	(D)	...
Virginia.....	248,511	...	...	(D)	(D)	...
North Carolina.....	302,328	...	...	(D)	(D)	...
South Carolina.....	133,947	...	...	(D)	(D)	...
Georgia.....	187,745	...	...	187,745	...	...
Florida.....	(D)	...	...	(D)	...	...
East South Central.....	1,113,929	...	...	450,734	629,376	33,819
Tennessee.....	(D)	...	...	(D)	(D)	(D)
Alabama.....	(D)	...	...	(D)	...	...
Mississippi.....	897,275	...	...	(D)	(D)	(D)
West South Central.....	277,564	...	...	(D)	(D)	(D)
Arkansas.....	(D)	...	...	...	...	(D)
Louisiana.....	(D)	...	...	(D)	...	...
Texas.....	(D)	...	...	(D)	...	...
West.....	80,585	(D)	...	...	(D)	...
Pacific.....	80,585	(D)	...	...	(D)	...
Washington.....	80,585	(D)	...	...	(D)	...
Oregon.....	...	...	...	...	...	...
California.....	...	...	...	...	...	...

D Withheld to avoid disclosing figures for individual companies.

Table 7C.—PULPWOOD CONSUMPTION AND WOOD PULP PRODUCTION BY PULPING PROCESS, UNITED STATES TOTALS: 1954 AND 1947

Code	Pulping process	1954				1947			
		Pulpwood consumption (Cords of 128 cubic feet)			Wood pulp production (Short tons)	Pulpwood consumption (Cords of 128 cubic feet)			Wood pulp production (Short tons)
		Total	Softwood	Hardwood		Total	Softwood	Hardwood	
	Total.....	29,679,363	24,891,124	4,788,239	18,256,139	19,345,311	16,795,854	12,549,457	11,945,864
241171	Special alpha.....	1,590,073	1,176,725	413,348	760,114	15,610,164	5,206,132	341,610	329,161
241172	Sulfite.....	4,673,623	4,122,352	551,271	2,382,699				
241173	Sulfate.....	17,664,383	16,577,660	1,086,723	9,812,054	19,488,846	8,592,753	479,847	2,466,801
241174	Soda.....	818,906	119,406	699,500	429,596				
241175	Groundwood.....	2,545,931	2,120,344	425,587	2,484,963	12,008,564	1,577,351	166,149	491,580
241176	Semichemical.....	1,353,257	152,257	1,201,000	1,197,984				
241177	Defibrated or exploded.....	21,033,190	622,380	410,810	1,027,525	11,281,078	357,691	478,936	2,049,814
	Screenings, damaged, off-quality, etc.....	...	...	...	161,204				
		...	...	...	...	...	...	...	114,483

<sup>1</sup>This total does not equal the sum of the detail. The difference represents the amount of pulpwood consumption for which a separate breakdown is not available.<sup>2</sup>Does not include a small consumption of a few integrated establishments classified in other than the Pulp Mills Industry which did not report their pulpwood consumption



## PULP, PAPER, AND PAPERBOARD

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Table 7D.—FIBROUS MATERIALS CONSUMED IN THE MANUFACTURE OF PAPER AND BOARD BY DIVISIONS AND STATES: 1954

(Quantities in tons of 2,000 lbs.)

Division and State <sup>1</sup>	Type of material											
	Wood pulp									Other fibrous materials		
	Total	Sulfite		Sulfate			Ground-wood	Semi-chemical	Other wood pulp	Total	Waste paper	Other fibrous materials
		Bleached	Un-bleached	Bleached	Semi-bleached	Un-bleached						
U. S., total	18,989,159	2,134,768	876,712	3,213,810	314,546	6,981,742	2,710,312	1,138,012	1,619,257	9,056,329	7,856,637	1,199,692
Northeast.....	4,149,274	984,822	526,879	713,763	45,322	291,612	1,048,948	86,416	451,512	3,220,000	2,896,898	323,102
New England.....	2,078,146	482,993	234,252	258,456	(D)	182,009	687,975	(D)	181,763	875,500	763,569	111,931
Maine.....	1,367,159	267,586	196,868	143,936	(D)	(D)	657,065	...	96,631	27,457	24,233	3,224
New Hampshire...	209,981	80,429	(D)	10,509	(D)	81,331	(D)	(D)	(D)	(D)	(D)	(D)
Vermont.....	82,481	4,855	(D)	3,469	(D)	42,820	22,975	...	2,671	25,970	25,970	...
Massachusetts...	345,755	123,204	22,066	97,389	15,397	50,213	4,940	...	32,546	414,830	339,537	75,293
Rhode Island...	(D)	...	...	...	...	...	...	...	(D)	(D)	(D)	(D)
Connecticut....	(D)	6,919	10,645	3,153	(D)	(D)	(D)	...	4,474	286,856	279,565	7,291
Middle Atlantic...	2,071,128	501,829	292,627	455,307	(D)	109,603	360,973	(D)	269,749	2,344,500	2,133,329	211,171
New York.....	998,218	240,893	149,925	173,053	(D)	49,200	291,627	(D)	52,554	873,992	754,500	119,492
New Jersey.....	254,247	19,050	56,501	43,311	(D)	30,911	6,269	(D)	82,251	813,066	743,972	69,094
Pennsylvania....	818,663	241,886	86,201	238,943	11,580	29,492	63,077	12,540	134,944	657,442	634,857	22,585
North Central.....	3,410,780	861,945	173,219	771,821	77,793	227,139	583,047	343,016	372,800	3,622,468	3,168,218	454,250
East North Central...	2,732,323	792,799	151,460	709,370	64,636	221,978	325,253	288,488	178,339	3,213,041	2,842,673	370,368
Ohio.....	552,142	80,062	31,005	255,264	15,119	46,438	3,880	35,995	84,379	901,151	756,050	145,101
Indiana.....	24,736	2,163	1,974	10,110	(D)	2,825	2,206	...	(D)	271,154	203,472	67,682
Illinois.....	138,943	16,532	4,990	9,761	(D)	11,663	22,128	(D)	56,820	754,491	648,787	105,704
Michigan.....	688,516	201,021	50,581	213,507	3,946	51,317	50,625	(D)	(D)	903,692	867,391	36,301
Wisconsin.....	1,327,986	493,021	62,910	220,728	33,825	109,735	246,414	139,819	21,534	382,553	366,973	15,580
West North Central...	678,457	69,146	21,759	62,451	13,157	5,161	257,794	54,528	194,461	409,427	325,545	83,882
Minnesota.....	661,367	(D)	(D)	62,323	13,157	5,161	248,629	(D)	194,461	183,042	(D)	(D)
Iowa.....	(D)	(D)	(D)	(D)	...	...	...	(D)	...	83,902	41,854	42,048
Missouri.....	(D)	...	(D)	...	...	...	9,165	...	...	72,673	57,353	15,320
Kansas.....	(D)	(D)	...	(D)	...	...	...	...	...	69,810	(D)	(D)
South.....	9,060,441	23,292	40,511	1,326,605	138,525	5,819,105	570,080	650,994	491,329	1,454,852	1,093,030	361,822
South Atlantic.....	5,399,232	17,054	18,549	562,262	22,221	4,189,307	152,980	403,760	33,099	617,400	549,932	67,468
Delaware.....	26,720	9,195	(D)	(D)	...	...	...	...	(D)	25,333	(D)	(D)
Maryland.....	117,156	(D)	(D)	(D)	...	...	...	...	(D)	172,148	(D)	(D)
Virginia.....	847,739	(D)	1,440	175,966	(D)	448,984	(D)	128,950	8,064	122,772	121,974	798
West Virginia..	6,211	(D)	(D)	(D)	...	1,150	...	...	(D)	...	28,591	(D)
North Carolina..	645,845	(D)	(D)	253,289	(D)	293,059	...	90,813	...	91,059	58,184	32,875
South Carolina..	918,447	...	...	...	...	795,156	(D)	(D)	...	(D)	(D)	...
Georgia.....	1,271,211	...	(D)	3,365	...	1,152,815	(D)	(D)	...	55,229	(D)	(D)
Florida.....	1,565,903	...	...	(D)	...	1,498,143	(D)	(D)	...	36,481	28,892	7,589
East South Central	1,517,708	(D)	(D)	349,974	(D)	320,473	295,227	81,450	375,567	179,909	166,844	13,065
Tennessee.....	245,395	(D)	(D)	60,528	(D)	(D)	(D)	(D)	(D)	122,266	(D)	(D)
Alabama.....	619,015	...	(D)	...	58,957	320,283	150,143	...	(D)	57,643	(D)	(D)
Mississippi....	653,298	...	(D)	(D)	...	(D)	(D)	(D)	(D)	...	...	...
West South Central	2,143,501	(D)	(D)	414,369	(D)	1,309,325	121,873	165,784	82,663	657,543	376,254	281,289
Arkansas.....	343,837	...	...	...	...	343,837	...	...	...	24,167	(D)	(D)
Louisiana.....	1,480,476	...	(D)	(D)	(D)	936,392	...	165,784	74,057	399,476	(D)	(D)
Oklahoma.....	(D)	...	(D)	...	...	...	...	...	(D)	99,040	99,040	...
Texas.....	(D)	(D)	(D)	(D)	(D)	29,096	(D)	...	(D)	134,860	114,143	20,717
West.....	2,368,664	264,709	136,103	401,621	52,906	643,886	508,237	57,586	303,616	759,009	698,491	60,518
Mountain.....	(D)	...	...	(D)	...	(D)	...	...	...	(D)	(D)	...
Idaho.....	(D)	...	...	(D)	...	(D)	...	...	...	...	...	...
Colorado.....	...	...	...	...	...	...	...	...	...	(D)	(D)	...
Pacific.....	(D)	264,709	136,103	(D)	52,906	(D)	508,237	57,586	303,616	(D)	(D)	60,518
Washington.....	1,276,007	170,619	50,527	175,481	51,842	468,271	316,114	...	43,153	(D)	53,854	(D)
Oregon.....	670,231	84,471	73,149	(D)	(D)	152,331	183,824	(D)	137,294	26,763	(D)	(D)
California.....	(D)	9,619	12,427	72,625	(D)	(D)	8,299	(D)	123,169	647,168	601,767	45,401

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>States not shown reported no fibrous materials consumed in the manufacture of paper and board.

## MANUFACTURES—INDUSTRY STATISTICS

Table 7E.—FIBROUS MATERIALS CONSUMED IN THE MANUFACTURE OF PAPER AND BOARD, TOTALS BY KIND, 1947 AND 1954, AND BY MAJOR GRADE, 1954

(Quantities in tons of 2,000 lbs.)

Kind of material	1947, total	1954, total	Major grade group in 1954						
			Paper						
			Newsprint	Ground- wood paper	Paper machine coated paper	Book paper	Fine paper	Coarse and special indus- trial paper	Sanitary and tissue papers
Production of paper and board.....	21,114,000	26,876,242	1,202,413	788,218	1,221,700	1,577,442	1,284,526	3,962,136	1,612,237
Fibrous materials consumed, total.....	22,787,525	28,045,488	1,301,143	800,332	985,572	1,599,299	1,354,626	4,079,336	1,709,127
Wood pulp, total.....	13,285,435	18,989,159	1,295,368	762,896	959,945	1,187,734	1,169,119	3,902,685	1,452,393
Sulfite, total.....	3,229,339	3,011,480	130,100	209,304	268,963	408,755	549,218	377,111	780,044
Bleached sulfite.....	1,792,091	2,134,768	...	74,791	246,259	383,311	488,696	244,826	547,807
Unbleached sulfite.....	1,437,248	876,712	130,100	134,513	22,704	25,444	60,522	132,285	232,237
Sulfate, total.....	5,860,288	10,510,098	110,840	52,338	308,004	528,610	490,021	3,425,639	443,177
Bleached sulfate, softwood.....	1,067,858	2,611,096	(D)	40,948	169,834	278,632	310,499	579,331	320,109
Bleached sulfate, hardwood.....		602,714	(D)	(D)	133,495	219,902	103,617	28,563	26,456
Semibleached sulfate.....	198,857	314,546	(D)	(D)	1,907	11,184	6,891	153,034	10,419
Unbleached sulfate.....	4,593,573	6,981,742	...	1,474	2,768	18,892	69,014	2,664,711	86,193
Groundwood.....	2,361,110	2,710,312	1,054,386	500,968	256,526	11,001	3,035	14,911	212,140
Semichemical.....	1,834,698	1,138,012	...	...	35,494	21,426	17,357	10,942	...
All other wood pulp (soda, defibrated or exploded, screenings, etc.).....		1,619,257	42	286	90,958	217,942	109,488	74,082	17,032
Other fibrous materials, total.....	9,502,090	9,056,329	5,775	37,436	25,627	411,565	185,507	176,651	256,734
Waste paper.....	8,009,052	7,856,637	(D)	37,436	25,627	393,151	60,479	(D)	252,234
Other fibrous materials (rags, straw, bagasse, etc.).....	1,493,038	1,199,692	(D)	...	...	18,414	125,028	(D)	4,500
Major grade group in 1954—Continued									
Paperboard							Construction paper and board		
	Container board	Special food board	Other bending and non- bending board	Special paper-board, cardboard, and wet machine board	Construction paper	Hardboard and insulating board			
Production of paper and board.....	6,487,984	1,000,610	3,501,826	1,336,280	1,428,349	1,472,521			
Fibrous materials consumed, total.....	6,882,235	1,056,685	3,705,518	1,418,692	1,437,419	1,715,504			
Wood pulp, total.....	5,113,838	927,228	460,081	129,174	458,472	1,170,226			
Sulfite, total.....	3,932	106,424	134,369	29,203	15,057	...			
Bleached sulfite.....	1,431	73,762	62,478	11,407	...	...			
Unbleached sulfite.....	1,501	32,662	71,891	17,796	15,057	...			
Sulfate, total.....	4,083,102	786,544	243,538	37,391	894	...			
Bleached sulfate, softwood.....	43,155	700,936	133,812	(D)	...	...			
Bleached sulfate, hardwood.....	(D)	62,584	17,786	(D)	...	...			
Semibleached sulfate.....	(D)	16,150	24,663	(D)	...	...			
Unbleached sulfate.....	4,033,653	6,874	67,277	29,992	894	...			
Groundwood.....	31,060	23,869	51,948	40,300	36,580	473,588			
Semichemical.....	943,622	(D)	(D)	(D)	38,178	55,412			
All other wood pulp (soda, defibrated or exploded, screenings, etc.).....	53,122	(D)	(D)	(D)	367,763	641,226			
Other fibrous materials, total.....	1,768,397	129,457	3,245,437	1,289,518	978,947	545,278			
Waste paper.....	1,522,140	129,457	3,239,672	1,239,892	684,266	141,807			
Other fibrous materials (rags, straw, bagasse, etc.).....	246,257	...	5,765	49,626	294,681	403,471			

D Withheld to avoid disclosing figures for individual companies.

Table 8.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY INDUSTRY SPECIALIZATION AND PRIMARY PRODUCT CLASS SPECIALIZATION, FOR THE UNITED STATES: 1954

(This table presents selected statistics for establishments classified according to their degree of specialization in products primary to the industry. The establishments are classified in two ways: (1) by industry specialization—the degree of specialization in all primary products of the industry; and (2) by product-class specialization—the degree of specialization in the largest product class of the establishment. The degree of "industry specialization" for an establishment represents the ratio of its primary product shipments to its total product shipments, primary and secondary. The degree of "product-class specialization" for an establishment represents the ratio of its largest product class shipments to its total product shipments, primary and secondary. Data are not shown for some industries, product classes, and specialization ranges for a variety of reasons, consequently, detailed figures frequently do not add to the totals. See Introduction for detailed explanation)

Ind. or product class No.	Industry or product class by percent of specialization	Establishments, number	All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
2611	PULP MILLS (entire industry).....	252	57,672	256,622	48,896	105,252	207,188	704,274	873,017	1,577,291
26112	Bleached sulfite wood pulp: All establishments specializing in product class. Establishments with:	35	8,852	39,887	7,550	16,134	32,490	89,209	141,788	230,997
	90% or more specialization.....	21	4,025	18,332	3,402	7,213	14,733	46,256	73,668	119,924
	75-89% specialization.....	3	962	4,568	823	1,846	3,640	6,454	12,099	18,553
	50-74% specialization.....	6	2,013	8,777	1,788	3,736	7,562	13,163	28,313	41,476
	Less than 50% specialization.....	5	1,851	8,209	1,536	3,338	6,554	23,336	27,707	51,043
26113	Unbleached sulfite wood pulp: All establishments specializing in product class. Establishments with:	10	1,566	6,629	1,414	3,091	5,782	13,121	20,261	33,382
	90% or more specialization.....	5	578	2,770	509	1,108	2,340	5,474	8,180	13,654
26114	Bleached and semi-bleached sulfate wood pulp: All establishments specializing in product class. Establishments with:	26	11,590	54,356	9,231	20,018	41,784	154,876	160,810	315,687
	90% or more specialization.....	13	5,232	23,866	4,197	9,035	18,412	72,719	71,396	144,115
26115	Unbleached sulfate wood pulp: All establishments specializing in product class. Establishments with:	37	16,424	72,171	14,000	30,185	58,413	219,985	273,014	493,000
	90% or more specialization.....	24	8,459	38,101	7,244	15,762	31,176	119,692	144,051	263,743
	75-89% specialization.....	6	4,734	20,642	3,993	8,532	16,562	71,186	74,869	146,055
	50-74% specialization.....	7	3,231	13,428	2,762	5,891	10,675	29,107	54,094	83,201
26116	Soda wood pulp: All establishments specializing in product class. Establishments with:	11	2,790	11,532	2,513	5,655	10,024	24,174	34,493	58,667
	90% or more specialization.....	7	1,251	5,081	1,129	2,573	4,446	12,910	15,317	28,227
26117	Ground wood pulp: All establishments specializing in product class. Establishments with:	57	5,698	24,189	5,101	11,398	20,901	59,783	87,307	147,091
	90% or more specialization.....	43	2,463	9,577	2,211	4,844	8,230	18,935	28,369	47,304
2612	PAPER AND PAPERBOARD MILLS (entire industry).....	589	142,191	648,972	119,859	265,871	513,108	1,429,659	2,363,150	3,792,810
	Establishments with:									
	90% or more specialization.....	573	136,675	624,738	115,044	255,115	493,718	1,377,769	2,306,950	3,684,719
	75-89% specialization.....	8	4,466	18,820	3,928	8,740	15,408	40,884	38,921	79,806
	50-74% specialization.....	5	509	2,661	424	962	1,927	6,862	5,549	12,411
	All other <sup>1</sup> .....	3	540	2,752	462	1,053	2,054	4,144	11,729	15,873
26121	Newsprint and uncoated groundwood paper: All establishments specializing in product class. Establishments with:	28	8,692	40,692	7,392	16,854	33,350	91,574	174,714	266,288
	90% or more specialization.....	17	4,208	19,532	3,654	8,345	16,364	48,000	101,297	149,297
	75-89% specialization.....	4	1,166	5,385	986	2,066	4,346	14,712	23,183	37,895
26122	Paper-machine coated printing and converting paper: All establishments specializing in product class. Establishments with:	16	12,099	52,930	10,365	22,517	43,212	116,833	149,621	266,454
	75% or more specialization.....	7	3,515	15,851	3,054	6,338	13,245	43,852	51,586	95,438
26123	Book and fine paper, uncoated: All establishments specializing in product class. Establishments with:	103	41,774	188,974	35,241	79,041	148,924	329,292	503,085	832,377
	90% or more specialization.....	74	22,503	100,796	18,933	42,695	78,314	180,585	255,781	436,366
	75-89% specialization.....	15	9,550	42,542	8,182	18,896	34,386	59,832	110,528	170,360
26124	Coarse, special industrial paper, including absorbent paper: All establishments specializing in product class. Establishments with:	96	24,709	107,908	20,945	45,132	85,387	254,840	481,098	735,938
	90% or more specialization.....	66	10,459	45,955	9,003	19,486	36,599	101,987	182,976	284,963
	75-89% specialization.....	14	3,727	16,161	3,168	7,057	12,896	40,520	72,287	112,808
26125	Sanitary tissue stock: All establishments specializing in product class. Establishments with:	86	10,183	48,596	8,224	18,574	37,039	122,305	214,962	337,268
	90% or more specialization.....	75	7,954	37,724	6,392	14,480	28,482	95,663	174,479	270,142

See footnotes at end of table.



## MANUFACTURES—INDUSTRY STATISTICS

Table 8.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY INDUSTRY SPECIALIZATION AND PRIMARY PRODUCT CLASS SPECIALIZATION, FOR THE UNITED STATES: 1954—Continued

Ind. or product class No.	Industry or product class by percent of specialization	Establishments, number	All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
2612	PAPER AND PAPERBOARD MILLS—Continued									
26126	Container board:									
	All establishments specializing in product class.	86	17,626	82,091	15,047	32,981	65,522	230,300	466,237	696,538
	Establishments with:									
	90% or more specialization.....	58	8,084	36,933	6,890	14,775	29,645	123,880	246,589	370,470
26127	Bending board including special food board:									
	All establishments specializing in product class.	83	17,550	83,419	14,581	32,705	65,544	193,094	277,630	470,724
	Establishments with:									
	90% or more specialization.....	35	6,644	32,479	5,561	12,573	25,996	69,526	108,949	178,476
	75-89% specialization.....	13	3,121	15,785	2,656	6,027	12,737	35,401	55,395	90,796
	50-74% specialization.....	25	5,458	24,780	4,520	9,931	19,083	64,958	85,921	150,880
	Less than 50% specialization.....	10	2,326	10,374	1,843	4,173	7,727	23,208	27,364	50,572
26128	Non bending board:									
	All establishments specializing in product class.	28	3,359	16,355	2,813	6,562	12,299	31,760	28,554	60,314
	Establishments with:									
	90% or more specialization.....	6	383	1,934	310	711	1,361	3,943	2,729	6,672
	75-89% specialization.....	6	508	2,230	416	902	1,563	4,627	3,346	7,973
	50-74% specialization.....	9	1,345	7,121	1,118	2,823	5,272	13,725	12,155	25,881
	Less than 50% specialization.....	7	1,122	5,069	968	2,125	4,102	9,465	10,323	19,788
26129	Special paperboard card board and wet machine board:									
	All establishments specializing in product class.	57	5,576	24,883	4,715	10,303	19,504	54,718	54,166	108,885
	Establishments with:									
	90% or more specialization.....	44	3,896	17,412	3,326	7,323	13,847	36,274	36,840	73,115
2613	BUILDING PAPER AND BOARD MILLS—(entire industry).....	91	16,391	69,271	14,284	30,374	57,536	155,415	149,884	305,302
	Establishments with:									
	90% or more specialization.....	81	15,502	65,299	13,517	28,717	54,316	147,045	141,553	288,600
26131	Construction paper unsaturated:									
	All establishments specializing in product class.	65	6,264	27,289	5,448	11,673	22,545	58,891	68,345	127,237
	Establishments with:									
	90% or more specialization.....	56	4,304	18,676	3,691	7,853	15,480	38,070	48,270	86,341
	75-89% specialization.....	3	349	1,487	316	632	1,325	2,804	4,382	7,186
	50-74% specialization.....	6	1,611	7,126	1,441	3,188	5,740	18,016	15,693	33,709
26132	Insulating board and hard pressed wood fiber board:									
	All establishments specializing in product class.	23	10,067	41,826	8,783	18,608	34,857	96,185	81,191	177,378
	Establishments with:									
	90% or more specialization.....	23	10,067	41,826	8,783	18,608	34,857	96,185	81,191	177,378

<sup>1</sup>This class includes data for establishments with less than 50 percent specialization in the primary products of the industry and establishments engaged exclusively in contract work defined in the industry. Miscellaneous small statistical adjustments are also included.

Table 9.—PULP MILL EQUIPMENT AND CAPACITY, AS OF DECEMBER 31, 1954, BY MAJOR CENSUS REGIONS  
(Capacity figures in tons of 2,000 lbs.)

Type of equipment	United States			Northeast			North Central			South			West		
	Number of units	Rated capacity 24 hours	Practical maximum annual capacity <sup>1</sup>	Number of units	Rated capacity 24 hours	Practical maximum annual capacity <sup>1</sup>	Number of units	Rated capacity 24 hours	Practical maximum annual capacity <sup>1</sup>	Number of units	Rated capacity 24 hours	Practical maximum annual capacity <sup>1</sup>	Number of units	Rated capacity 24 hours	Practical maximum annual capacity <sup>1</sup>
Total.....	xxx	62,411	21,057,638	xxx	10,208	3,223,051	xxx	7,484	2,402,722	xxx	34,144	11,778,421	xxx	10,575	3,653,444
Digesters:															
Sulfite including special alpha and dissolving...	340	10,450	3,488,218	121	3,041	971,038	89	2,391	769,704	35	1,284	456,700	95	3,734	1,290,776
Sulfate.....	622	32,275	11,151,068	33	1,091	362,087	36	1,051	328,270	466	25,979	9,005,727	87	4,154	1,454,984
Soda.....	61	1,418	464,232	49	938	307,442	(D)	(D)	(D)	(D)	(D)	(D)	...	(D)	...
Semichemical.....	118	3,489	1,131,218	(D)	(D)	(D)	26	684	221,252	79	2,211	723,235	...	(D)	...
Cotton linter.....	36	808	256,700	(D)	(D)	(D)	(D)	(D)	(D)	31	775	246,800	...	(D)	...
Grinders for groundwood pulp.....	654	9,453	3,070,101	278	3,898	1,198,571	180	1,893	598,866	57	2,131	739,338	139	1,531	513,326
Defibrators:															
Chemical pulpers, etc.....	13	795	275,432	...	...	...	(D)	(D)	(D)	(D)	(D)	(D)	...	(D)	...
Other defibrators (asplund, etc.).....	153	3,723	1,220,669	47	766	233,182	(D)	(D)	(D)	40	1,359	467,571	(D)	(D)	(D)

NOTE: The following equipment with corresponding daily capacities has been reported idle at the end of 1954 and are not included in the data shown above: 3 sulfite digesters, daily capacity 42 tons; 10 sulfate digesters, daily capacity 235 tons; 13 soda digesters, daily capacity 145 tons; 2 semichemical digesters, daily capacity 60 tons; 8 grinders, daily capacity 86 tons; 3 defibrators, daily capacity 97 tons.

D Withheld to avoid disclosing figures for individual companies.

xxx Not applicable.

Practical maximum annual capacity is actual daily capacity multiplied by the maximum number of working days which each pulp mill reported that it could operate in a year under ideal manufacturing and marketing conditions.









## Converted Paper and Board Products

This report shows 1954 Census of Manufactures statistics for establishments classified in each of the following industries:

Code	Title
2641	Paper Coating and Glazing
2651	Envelopes
2661	Paper Bags
2671	Paperboard Boxes
2674	Fiber Cans, Tubes, and Drums
2691	Die-Cut Paper and Board
2693	Wallpaper
2694	Pulp Goods, Pressed and Molded
2699	Paper and Board Products, Not Elsewhere Classified

There is a high degree of integration between Industry 2612, Paper and Paperboard, and the various paper and board converting industries. Paper or paperboard is manufactured and converted by the same company, either at the same location or at separate locations. For the 1954 Census of Manufactures, integrated operations are reported as in the 1947 Census and subsequent Annual Surveys on a departmentalized basis, i.e., the paper or paperboard manufacturing activities are reported separately from converting and each activity is treated as a separate establishment. Hence, the industry statistics shown in all tables for each converting industry exclude all operations data relating to paper and paperboard manufacture. Because company records are often not maintained departmentally, it was necessary to establish some general guides in developing the departmentalized reports. The following special instructions for alternate methods of assigning values to interplant transfers to the converting establishments and allocating costs between the primary and converting operations, were furnished to each company:

"For the value of paper or board transferred to other manufacturing establishments (converting departments) of your company, at this site or at any other location, report an estimated value based upon market value minus costs of services not performed such as transportation, wrapping, etc., or, if representative market values are not available, upon "costs." If "costs" are used the value should cover the cost of wood pulp, waste paper, chemicals, other paper mill supplies, fuel, electric energy, and direct labor applicable to the primary paper and board operations, together with a reasonable proportion of the total indirect labor costs, overhead costs, and company profits or losses reasonably assignable to this producing location."

The 1954 Census of Manufactures experience indicates that company records often do not reflect detailed operating data and that transfer values of paper and paperboard to the converting operation were not reported on a uniform basis. When it was apparent that the transfer values assigned to paper and paperboard transferred to the converting department were such that a disproportionate amount of the value added by manufacture would be credited to either the primary or converting department, adjustments were made to bring them more in line with industry averages. Where possible, assistance from the company was obtained in making these adjustments, but to a significant degree the adjustments were made by the Census Bureau based on average relationships for the industries affected. To the extent that such adjustments did not reflect actual relationships for such establishments, the validity of the data would be affected.

The paper and board converting industries consist of a homogeneous group of establishments specializing to a large extent in the output of products of their industries (Envelopes,

Industry 2651; Paper Bags, Industry 2661; etc.). The primary product specialization ratios of the paper and board converting industries' is their shipments of primary products to their shipments of all products, (primary and secondary); range from 85 to 100 percent (see Table 5A). In each of the Paper and Board Converting Industries the major portion of the secondary product shipments consists predominately of other converted paper or board products.

Table 7A summarizes the consumption of paper and paperboard by industry and Table 6A shows value of shipments of converted products and distinguishes paper and paperboard consumption as between company purchases and company's own manufacture.

It should be pointed out that in the following industry descriptions the word "purchased," when used to delineate the source of paper and board consumed in the manufacture of converted products, is to be construed as including interplant transfers, (from other establishments of the same company) as well as purchases in the open market.

### 2641—Paper Coating and Glazing

Industry 2641 comprises establishments primarily engaged in manufacturing coated and glazed paper from purchased paper. Important products of this industry include coated-book, waxed, wax-laminated, and gummed paper (including gummed-labels, and paper and cloth tape), waterproof wrapping paper, fly paper, cloth-lined paper, and pressure sensitive tapes (except surgical) with paper, cloth, or plastic backing. Establishments primarily engaged in manufacturing photographic and blueprint paper are classified in Industry 3861, Photographic Equipment; carbon paper, in Industry 3955, Carbon Paper and Inked Ribbons; and rubber tapes, including friction in Industry 3099, Rubber Industries, N.E.C. For a detailed list of primary products of Industry 2641, refer to Table 6A, product codes 2641111 to 2641598.

The value of shipments of Industry 2641 in 1954 totaled \$622 million. This included shipments of primary products (coated and glazed paper) valued at \$526 million, shipments of secondary products valued at \$92 million, and miscellaneous receipts of \$4 million.

Industry 2641 shipments of coated and glazed paper in 1954 represented 85 percent of its total product shipments (primary and secondary). In 1947, this primary product specialization ratio was 87 percent. Secondary products shipped by this Industry in 1954 consisted mainly of the following groups of products: non-metallic abrasives, other rubber products, recording tape valued in the aggregate at \$44 million; metal foil and leaf, \$10 million; specialty bags and liners, \$8 million; and commercial printing, letterpress and gravure, \$5 million.

Industry 2641 shipments of primary products (coated and glazed paper) in 1954 represented 86 percent of these products valued at \$610 million shipped by all industries. This coverage ratio was 92 percent in 1947. Industry 2699, Paper and Board Products, N.E.C., which shipped \$32 million, was the principal other industry shipping these products.

### 2651--Envelopes

Industry 2651 comprises establishments primarily engaged in manufacturing envelopes of any description from purchased paper and other materials. Establishments primarily engaged in manufacturing papeteries (boxed stationery) are classified in Industry 2699, Paper and Board Products, N.E.C.

The value of shipments of Industry 2651 in 1954 totaled \$195 million. This included shipments of primary products (envelopes) valued at \$181 million, secondary products valued at \$8 million, and miscellaneous receipts of \$6 million.

The value of envelope shipments of Industry 2651 in 1954 represented 96 percent of its total product shipments (primary and secondary). In 1947, this primary product specialization ratio was 92 percent. Secondary products shipped by this industry in 1954 consisted mainly of stationery, tablets, and related products valued at \$3 million.

Industry 2651 shipments of primary products (envelopes) in 1954 represented 92 percent of these products valued at \$197 million shipped by all industries. This coverage ratio was 95 percent in 1947. Industry 2699, Paper and Board Products, N.E.C., which shipped \$7 million, and Industry 2661, Paper Bags, which shipped \$5 million, were the principal other industries shipping these products.

#### 2661--Paper Bags

Industry 2661 comprises establishments primarily engaged in manufacturing paper bags from purchased paper and similar materials. Important products of this industry include kraft paper bags for groceries, paper shipping or heavy-duty paper sacks and multiwall bags for cement, flour, coal, etc., and glassine bags, cellophane bags, and miscellaneous merchandise bags. Establishments primarily engaged in manufacturing cotton or other textile bags from purchased fabrics are classified in Industry 2393, Textile Bags. For a detailed list of primary products of Industry 2661, see Table 6A, product codes 2661111 to 2661451.

The value of shipments of Industry 2661 in 1954 totaled \$23 million. This included shipments of primary products (paper bags) valued at \$561 million, shipments of secondary products valued at \$58 million, and miscellaneous receipts of \$4 million.

The value of paper bag shipments by Industry 2661 in 1954 represented 91 percent of its total product shipments (primary and secondary). In 1947, this primary product specialization ratio was 96 percent. Secondary products shipped by this industry in 1954 consisted mainly of wrapping products, except coated, oiled and waxed, valued at \$13 million, and \$26 million of the following product classes: gummed tape and paper, textile goods, n.e.c., textile bags, except laundry and wardrobe bags, lithographing, and metal foil and leaf.

Industry 2661 shipments of primary products (paper bags) in 1954 represented 88 percent of these products valued at \$635 million shipped by all industries. This coverage ratio was 86 percent in 1947. Industry 2393, Textile Bags, which shipped \$23 million; and Industry 2699, Paper and Board Products, N.E.C., which shipped \$20 million, were the principal other industries shipping these products.

#### 2671--Paperboard Boxes (Full Standard Industrial Classification Title: Paperboard Boxes, Folded, Set-Up and Corrugated)

Industry 2671 comprises establishments primarily engaged in manufacturing paperboard containers or boxes from purchased paperboard or fiber stock. Important products of this industry include folding boxes; setup boxes, corrugated and solid fiberboard boxes; decorated, lithographed, lacquered, and fancy covered paperboard boxes; cigarette and confectionery boxes, and vulcanized fiber boxes. Establishments primarily engaged in manufacturing sanitary food containers are classified in Industry 2699, Paper and Board Products, N.E.C. For a more detailed list of primary products of Industry 2671 refer to Table 6A product codes 2671111 to 2671411.

The value of shipments of Industry 2671 in 1954 totaled \$2,180 million. This included shipments of primary products (paperboard boxes) valued at \$2,071 million, shipments of secondary products valued at \$93 million, and miscellaneous receipts of \$16 million.

Paperboard box shipments of Industry 2671 in 1954 represented 96 percent of its total product shipments (primary and secondary). In 1947, this primary product specialization ratio was 97 percent. Secondary products shipped by this industry in 1954 consisted mainly of the following product classes: Other converted paper and paperboard products, \$24 million; sanitary food containers, \$22 million; oiled, waxed and wax laminated

paper, \$6 million; and commercial printing, letterpress and gravure, \$5 million.

Industry 2671 shipments of primary products (Paperboard Boxes) in 1954 represented 98 percent of these products valued at \$2,111 million shipped by all industries. This coverage ratio in 1947 was also 98 percent. Industry 2699, Paper and Board Products, N.E.C., which shipped \$20 million, and Industry 2751, Commercial Printing, which shipped \$4 million, were the principal other industries shipping these products.

#### 2674--Fiber Cans, Tubes, and Drums (Full Standard Industrial Classification Title: Fiber Cans, Tubes, Drums, and Similar Products)

Industry 2674 comprises establishments primarily engaged in manufacturing from purchased materials, fiber cans, cones, cores, mailing cases, ribbon-blocks, spools, tubes, drums, and similar products with or without metal ends. These products may be manufactured from purchased paperboard or vulcanized fiber. For a detailed list of primary products of Industry 2674, refer to Table 6A, product codes 2674111 to 2674351.

The value of shipments of Industry 2674 in 1954 totaled \$147 million. This included shipments of primary products (fiber cans, tubes, and drums) valued at \$142 million, shipments of secondary products valued at \$4 million, and miscellaneous receipts of \$1 million.

The value of fiber can, tube, and drum shipments of Industry 2674 in 1954 represented 97 percent of its total product shipments (primary and secondary). In 1947, this primary product specialization ratio was also 97 percent. The total of \$4 million of secondary products shipped by this industry in 1954 consisted mainly of other paperboard containers.

Industry 2674 shipments of primary products (fiber cans, tubes and drums) in 1954 represented 87 percent of these products valued at \$162 million shipped by all industries. In 1947, this coverage ratio was 93 percent. Industry 3971, Plastics Products, N.E.C., which shipped \$7 million, was the principal other industry shipping these products.

#### 2691--Die-Cut Paper and Board (Full Standard Industrial Classification Title: Die-Cut Paper and Paperboard; and Cardboard)

Industry 2691 comprises establishments primarily engaged in die-cutting purchased paper and paperboard, and in manufacturing cardboard by laminating, lining, and surface-coating paperboard. Important products of this industry include paper bottle-caps and tops; index, Jacquard, library and other cut cards; cut-outs; photograph folders, mats, and mounts; stencil cards for addressing machines; cardboard panels and pasted chipboard and newsboard; and tabulating and time recording cards. Establishments primarily engaged in laminating building board or building paper from purchased paper or board are classified in Industry 2699, Paper and Board Products, N.E.C. For a more detailed list of primary products of Industry 2691 refer to Table 6A, product codes 2691111 to 2691300.

The value of shipments of Industry 2691 in 1954 totaled \$206 million. This included shipments of primary products (die-cut paper and paperboard) valued at \$176 million, shipments of secondary products valued at \$24 million, and miscellaneous receipts of \$6 million.

The value of die-cut paper and paperboard shipments by industry 2691 in 1954 represented 88 percent of its total product shipments (primary and secondary). In 1947, this primary product specialization ratio was 90 percent. Secondary products shipped by this industry in 1954 consisted mainly of the following product classes: oiled, waxed and wax-laminated paper; commercial printing, letterpress and gravure, in the aggregate at \$5 million; and coated and processed paper valued, at \$4 million.

Industry 2691 shipments of primary products (die-cut paper and board) in 1954 represented 82 percent of these products, valued at \$216 million, shipped by all industries. Industry 2699, Paper and Board Products, N.E.C., which shipped \$17 million, was the principal other industry shipping these products.



# 2693—Wallpaper

Industry 2693 comprises establishments primarily engaged in designing, printing and embossing paper for interior walls and ceilings. The paper stock used by this industry is called "hanging paper" and is produced by paper mills classified in Industry 2612. All kinds of wallpaper including machine, screen, and handprinted are included in this industry. For data on the primary products of Industry 2693, refer to Table 6A, product codes 2693011 and 2693051.

There is a high degree of primary product specialization in the Wallpaper Industry. Of the value of shipments of Industry 2693 in 1954 totaling \$40 million, wallpaper represented 99 percent. In 1947 this primary product specialization ratio was 98 percent.

In 1954 only a negligible amount of wallpaper shipments (less than \$1 million or 2 percent of the total) was reported by other industries. In 1947 this coverage ratio of Industry 2693 was 100 percent.

# 2694—Pulp Goods, Pressed and Molded

Industry 2694 comprises establishments primarily engaged in manufacturing, from purchased material, pressed or molded pulp goods, such as pulp plates and utensils, and papier-mache articles other than statuary and art goods (Industry 3298). Establishments primarily engaged in stamping plates and utensils from paper are classified in Industry 2699, Paper and Board Products, N.E.C. For a more detailed list of primary products of Industry 2694 refer to Table 6A, product codes 2694011 to 2694098.

The value of shipments of Industry 2694 in 1954 totaled \$42 million. This consisted almost entirely of pressed and molded pulp goods (primary products); secondary products and miscellaneous receipts were negligible.

The value of pressed and molded pulp goods shipments by Industry 2694 in 1954 represented 100 percent of its total product shipments (primary and secondary products). In 1954, this primary product specialization ratio was 95 percent. Industry 2694 accounted for 93 percent of pressed and molded pulp goods

valued at \$45 million shipped by all industries. In 1947, this coverage ratio was 86 percent.

# 2699—Paper and Board Products, N.E.C.

Industry 2699 comprises establishments primarily engaged in manufacturing from purchased paper, miscellaneous converted paper products, n.e.c., such as stationery, papeteries, crepe paper and crepe paper products, paper napkins, doilies, and towels, playing cards, drinking straws, sanitary food containers, printed and unprinted paper patterns, eggcase fillers, laminated building boards and papers, cups, plates, utensils, toilet paper, confetti, and paper novelties. For a more detailed list of primary products of Industry 2699, refer to Table 6A, product codes 2699111 to 2699681.

The value of shipments of Industry 2699 in 1954 totaled \$1,428 million. This included shipments of primary products, (paper and board products, n.e.c.) valued at \$1,277 million, shipments of secondary products valued at \$145 million, and miscellaneous receipts of \$6 million.

Industry 2699 shipments of paper and board products, n.e.c., in 1954 represented 90 percent of its total product shipments (primary and secondary). In 1947, this primary product specialization ratio was 86 percent. Secondary products shipped by Industry 2699 in 1954 consisted mainly of the following product classes: grocery and variety bags, paper; paper shipping sacks and multiwall bags; pulp goods, pressed or molded; sanitary napkins and tampons; and advertising novelties, valued in the aggregate at \$56 million; oiled, waxed and wax-laminated paper, \$22 million; folding paperboard boxes and cartons, \$19 million; miscellaneous die-cut products, \$9 million and envelopes excluding stationery, \$7 million.

Industry 2699 shipments of paper and board products, n.e.c., in 1954 represented 89 percent of these products valued at \$1,439 million shipped by all industries. This coverage ratio in 1947 was 86 percent. Industry 2671, Paperboard Boxes, which shipped \$55 million; and Industries 2661, Paper Bags, and 2614, Paper Coating and Glazing, which each shipped \$19 million, were the principal other industries shipping these products.

The general statistics (employment, payrolls, value of shipments, cost of materials, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products, and, for that matter, their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (Tables 1-4) with product statistics (Table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in Table 5A which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry made as secondary products by establishments classified in other industries.



## MANUFACTURES—INDUSTRY STATISTICS

Table 1.—GENERAL STATISTICS FOR THE UNITED STATES: 1954 AND EARLIER YEARS

(For explanation of column captions see Introduction)

Industry and census year	Establishments, number	All employees		Production workers		Value added by manufacture <sup>2</sup>	Cost of materials, etc. <sup>3</sup>	Value of shipments <sup>4</sup>
		Number <sup>1</sup>	Payroll (\$1,000)	Number <sup>1</sup>	Wages (\$1,000)			
Total for paper and board products industries:								
1944.....	4,072	313,950	1,242,553	252,684	878,884	2,291,599	3,191,614	5,483,213
1953 <sup>5</sup> .....	(NA)	316,251	1,226,507	256,988	878,355	2,288,347		
1952 <sup>5</sup> .....	(NA)	278,815	1,028,839	228,249	739,437	1,894,528		
1951 <sup>5</sup> .....	(NA)	287,894	995,310	237,554	718,364	2,056,386		
1950 <sup>5</sup> .....	(NA)	279,694	881,948	229,231	647,032	1,686,339		
1949 <sup>5</sup> .....	(NA)	255,381	775,590	211,453	558,912	1,398,034		
1947.....	3,210	256,182	686,949	216,135	510,159	1,450,384	1,907,474	3,357,858
1939 <sup>6</sup> .....	2,484	(NA)	(NA)	128,142	135,055	390,483	476,336	866,819
1937.....	2,243	(NA)	(NA)	129,141	134,486	378,835	492,459	871,294
1935 <sup>6</sup> .....	2,166	126,126	144,683	108,694	102,123	282,338	361,847	644,185
1933.....	1,916	102,667	97,201	89,082	73,648	216,105	260,984	477,089
1931.....	2,069	(NA)	(NA)	89,186	89,936	249,916	271,005	520,921
1929.....	2,243	122,724	165,068	105,334	114,253	316,776	369,361	686,137
1927.....	2,043	121,104	153,604	101,077	110,152	289,656	358,252	647,908
1925.....	1,964	119,098	145,588	97,660	102,951	261,135	313,797	574,932
1923.....	1,939	121,939	143,717	98,349	98,667	244,586	305,037	549,623
1921.....	1,862	92,225	106,602	79,462	75,674	181,287	223,078	404,364
1919.....	1,948	108,910	109,733	94,356	77,034	208,960	253,426	462,386
1914.....	1,734	89,394	50,480	78,295	35,599	85,891	101,652	187,542
1909.....	1,635	76,705	36,702	68,812	26,890	68,242	77,228	145,469
1904.....	1,337	60,418	25,166	55,238	19,453	46,063	51,019	97,082
1899.....	1,179	48,053	18,875	44,620	14,936	33,629	37,229	70,857
Paper coating and glazing (S.I.C. 2641):								
1954 <sup>7</sup> .....	277	27,697	123,991	20,017	80,101	282,067	340,124	622,192
1953 <sup>5</sup> .....	(NA)	31,177	137,518	22,328	87,127	306,544	406,446	712,990
1952 <sup>5</sup> .....	(NA)	20,880	87,549	15,856	58,688	165,837	288,167	454,004
1951 <sup>5</sup> .....	(NA)	21,370	85,690	16,476	58,954	170,231	318,846	489,077
1950 <sup>5</sup> .....	(NA)	21,186	76,757	16,795	54,898	151,411	276,511	427,922
1949 <sup>5</sup> .....	(NA)	21,040	72,063	16,432	49,335	124,345	224,367	348,712
1947.....	181	22,269	70,661	17,733	50,047	165,580	235,791	401,371
Envelopes (S.I.C. 2651):								
1954.....	196	15,902	63,044	13,019	43,516	101,430	93,910	195,341
1953 <sup>5</sup> .....	(NA)	16,213	61,085	13,473	44,244	98,838	95,012	193,850
1952 <sup>5</sup> .....	(NA)	16,092	59,997	13,313	41,587	94,569	84,928	179,497
1951 <sup>5</sup> .....	(NA)	16,726	60,017	13,912	41,607	107,800	91,987	199,787
1950 <sup>5</sup> .....	(NA)	15,376	50,441	12,640	34,914	86,532	72,806	159,338
1949 <sup>5</sup> .....	(NA)	14,725	45,573	12,225	31,557	77,601	68,924	146,525
1947.....	164	13,797	39,191	11,543	27,656	68,253	60,093	128,346
1939.....	169	11,161	15,827	8,689	9,597	25,495	24,623	50,118
1937.....	162	11,202	14,767	9,511	10,503	26,183	25,107	51,290
1935.....	166	10,679	13,306	9,038	9,087	22,718	20,900	43,618
1933.....	163	9,395	9,147	7,981	6,755	17,978	15,918	33,896
1931.....	162	(NA)	(NA)	8,924	9,658	24,491	22,452	46,943
1929.....	171	12,394	16,951	10,367	11,527	31,359	29,928	61,287
1927.....	153	11,463	14,931	9,745	10,755	27,033	28,973	56,006
1925.....	135	10,716	13,721	9,052	9,987	23,766	27,423	51,189
1923.....	132	10,980	13,382	9,241	9,525	23,224	27,528	50,752
1921.....	123	9,429	11,553	7,944	8,181	19,858	24,052	43,910
1919.....	106	9,460	9,448	8,129	6,650	17,699	21,965	39,664
1914.....	90	8,007	4,698	6,970	3,378	8,246	10,235	18,481
1909.....	78	(NA)	(NA)	5,303	2,226	5,887	7,567	13,454
1904.....	72	4,827	2,213	4,298	1,630	4,247	5,975	10,222
1899.....	51	3,297	1,467	2,984	1,150	2,634	3,665	6,299
Paper bags (S.I.C. 2661):								
1954 <sup>7</sup> .....	381	33,326	121,116	27,773	89,530	211,688	411,379	623,068
1953 <sup>5</sup> .....	(NA)	29,036	103,232	24,825	77,700	193,944	360,287	554,231
1952 <sup>5</sup> .....	(NA)	29,102	98,103	25,222	74,899	194,125	371,008	565,133
1951 <sup>5</sup> .....	(NA)	31,189	98,891	27,227	76,216	209,910	417,699	627,609
1950 <sup>5</sup> .....	(NA)	26,805	81,115	23,202	62,343	146,171	277,761	423,932
1949 <sup>5</sup> .....	(NA)	23,841	69,179	20,412	55,559	128,153	225,533	353,686
1947.....	192	22,230	53,774	19,527	42,265	119,074	200,854	319,928
1939.....	119	12,703	14,934	11,081	10,629	31,812	53,964	85,776
1937.....	107	11,379	12,594	10,360	9,850	29,034	53,424	82,458
1935 <sup>5</sup> .....	107	10,043	10,493	9,120	8,038	23,798	41,766	65,564
1933.....	96	8,467	7,158	7,665	5,813	20,083	29,296	49,379
1931.....	95	(NA)	(NA)	6,836	6,423	20,864	33,427	54,291

See footnotes at end of table.

CONVERTED PAPER AND BOARD PRODUCTS

20B-5

Table 1.—GENERAL STATISTICS FOR THE UNITED STATES: 1954 AND EARLIER YEARS—Continued

(For explanation of column captions see Introduction)

Industry and census year	Establishments, number	All employees		Production workers		Value added by manufacture <sup>2</sup>	Cost of materials, etc. <sup>3</sup>	Value of shipments <sup>4</sup>
		Number <sup>1</sup>	Payroll (\$1,000)	Number <sup>1</sup>	Wages (\$1,000)			
Paper bags etc.—Continued								
1929.....	95	7,843	9,009	6,970	6,661	21,383	43,238	64,621
1927.....	88	7,296	8,506	6,463	6,394	16,755	40,735	57,490
1925.....	66	6,260	7,162	5,585	5,524	16,021	29,957	45,978
1923.....	64	5,541	6,610	4,686	4,587	12,897	29,375	42,272
1921.....	57	4,421	5,091	3,707	3,475	11,393	29,797	41,190
1919.....	75	5,046	5,838	4,168	3,663	13,914	33,350	47,264
1914.....	59	4,130	2,572	3,505	1,659	5,402	12,201	17,603
1909.....	74	3,641	2,020	3,212	1,306	5,343	10,355	15,698
1904.....	62	2,833	1,335	2,473	930	3,492	6,595	10,087
1899.....	63	2,329	997	1,989	628	2,300	4,499	6,799
Paperboard boxes (S.I.C. 2671):								
1954 <sup>7</sup> .....	1,704	132,964	525,685	107,762	371,275	895,298	1,284,281	2,179,580
1953 <sup>8</sup> .....	(NA)	132,185	514,279	109,097	374,461	900,014	1,277,617	2,177,631
1952 <sup>9</sup> .....	(NA)	120,125	445,596	99,156	320,023	792,512	1,162,519	1,955,031
1951 <sup>9</sup> .....	(NA)	122,766	421,001	101,944	302,640	851,346	1,263,434	2,114,780
1950 <sup>5</sup> .....	(NA)	117,731	374,921	98,747	275,389	682,241	985,494	1,667,735
1949 <sup>5</sup> .....	(NA)	108,241	329,442	90,075	237,932	560,935	816,881	1,377,816
1947.....	1,520	109,745	292,865	94,596	217,079	632,933	841,810	1,474,743
1939.....	1,338	75,376	95,873	62,530	63,806	168,871	213,839	382,710
1937 <sup>9</sup> .....	1,226	(NA)	(NA)	62,620	63,301	163,377	231,410	394,787
1935.....	1,214	63,140	70,150	55,276	50,579	129,733	168,915	298,648
1933.....	1,104	53,111	47,552	47,220	37,614	96,678	126,326	223,004
1931.....	1,214	(NA)	(NA)	46,722	44,085	104,621	113,251	217,872
1929.....	1,249	63,454	79,425	55,654	57,110	134,413	159,840	294,253
1927.....	1,219	64,137	78,440	56,398	57,701	138,091	168,464	306,555
1925.....	1,229	64,532	75,608	57,148	57,172	130,232	151,712	281,944
1923.....	1,216	64,273	71,718	56,855	53,966	120,130	144,079	264,209
1921.....	1,191	52,300	54,818	46,242	40,477	85,980	88,268	174,248
1919.....	1,201	62,641	58,898	55,862	43,326	105,284	101,135	206,419
1914.....	1,043	49,858	24,592	45,311	18,705	38,443	36,268	74,711
1909.....	949	42,753	17,724	39,514	14,015	28,734	25,716	54,450
1904.....	796	34,408	12,521	32,082	10,208	20,181	16,686	36,867
1899.....	729	29,021	9,421	27,653	8,152	15,551	11,765	27,316
Fiber cans, tubes, drums, etc. (S.I.C. 2674):								
1954.....	184	12,088	44,958	10,460	34,861	74,377	72,419	146,797
1953 <sup>8</sup> .....	(NA)	13,377	48,220	11,773	38,153	86,067	87,351	173,418
1952 <sup>9</sup> .....	(NA)	10,687	35,221	9,221	27,728	63,012	62,508	125,520
1951 <sup>9</sup> .....	(NA)	10,202	32,441	8,881	25,850	58,216	59,898	118,114
1950 <sup>5</sup> .....	(NA)	9,505	28,488	8,248	22,913	47,413	48,713	96,126
1949 <sup>5</sup> .....	(NA)	8,444	24,023	7,262	19,147	36,918	37,768	74,686
1947.....	129	9,237	22,973	8,134	18,687	36,354	37,458	73,812
1939.....	116	7,790	9,658	6,637	6,963	19,393	13,952	33,345
1937 <sup>10</sup> .....	100	(NA)	(NA)	6,104	6,347	18,703	14,089	32,792
Die-cut paper and board (S.I.C. 2691):								
1954 <sup>7</sup> .....	352	12,260	47,940	9,933	34,633	97,964	108,687	206,652
1953 <sup>8</sup> .....	(NA)	16,255	61,446	12,787	43,403	117,198	112,706	229,904
1952 <sup>9</sup> .....	(NA)	11,885	46,310	9,438	34,463	88,074	82,471	170,545
1947 <sup>11</sup> .....	208	9,281	25,478	7,739	18,864	50,224	47,431	97,655
1939.....	121	5,670	8,861	4,354	5,454	17,194	16,070	33,264
1937 <sup>12</sup> .....	115	(NA)	(NA)	5,046	6,064	18,524	15,520	34,044
Wallpaper (S.I.C. 2693):								
1954.....	76	3,636	14,330	2,926	10,325	19,005	20,662	39,668
1952 <sup>9</sup> .....	(NA)	4,403	15,881	3,651	11,934	20,822	24,247	45,069
1951 <sup>9</sup> .....	(NA)	4,988	17,400	4,169	12,996	29,347	27,472	56,819
1950 <sup>5</sup> .....	(NA)	4,827	13,968	4,060	10,748	19,925	21,671	41,596
1949 <sup>5</sup> .....	(NA)	4,802	15,324	4,043	11,232	25,919	23,251	49,170
1947.....	58	5,462	16,287	4,771	12,222	32,732	26,163	58,895
1939.....	46	4,885	7,655	4,054	5,333	13,273	11,696	24,969
1937.....	42	5,171	7,114	4,543	5,455	14,852	11,920	26,772
1935.....	40	4,888	5,982	4,265	4,486	9,768	9,890	19,658
1933.....	39	3,706	3,942	3,239	3,116	8,949	6,851	15,800
1931.....	50	(NA)	(NA)	3,734	3,994	11,044	9,150	20,194
1929.....	56	5,420	8,283	4,705	5,732	16,528	13,480	30,008
1927.....	53	5,637	8,269	4,811	5,981	15,447	14,612	30,059
1925.....	49	5,806	8,036	5,069	5,863	15,070	14,999	30,069
1923.....	51	6,142	8,594	5,412	6,221	17,765	16,991	34,756

See footnotes at end of table.

## MANUFACTURES—INDUSTRY STATISTICS

Table 1.—GENERAL STATISTICS FOR THE UNITED STATES: 1954 AND EARLIER YEARS—Continued

(For explanation of column captions see Introduction)

Industry and census year	Establishments, number	All employees		Production workers		Value added by manufacture <sup>2</sup> (\$1,000)	Cost of materials, etc. <sup>3</sup> (\$1,000)	Value of shipments <sup>4</sup> (\$1,000)
		Number <sup>1</sup>	Payroll (\$1,000)	Number <sup>1</sup>	Wages (\$1,000)			
Wallpaper etc.,—Continued								
1921.....	43	4,623	6,794	3,988	4,982	12,812	16,336	29,148
1919.....	48	5,095	5,650	4,262	3,882	9,895	13,153	23,048
1914.....	48	5,684	4,221	4,738	2,703	7,351	8,536	15,887
1909.....	45	4,736	3,093	4,037	2,039	6,826	7,623	14,449
1904.....	44	4,410	2,560	3,913	1,868	5,979	6,658	12,637
1899.....	51	4,684	2,891	4,172	2,074	4,590	6,073	10,663
Pulp goods, pressed and molded (S.I.C. 2694):								
1954.....	29	2,882	11,630	2,401	9,111	25,439	16,853	42,293
1950 <sup>5</sup> .....	(NA)	2,910	10,234	2,633	8,235	20,138	11,484	31,622
1947.....	19	1,748	4,910	1,482	3,870	9,672	6,519	16,191
1939.....	14	856	1,081	701	819	2,304	1,522	3,826
1937 <sup>13</sup> .....	10	(NA)	(NA)	819	873	2,567	1,475	4,042
Paper and board products, n.e.c. (S.I.C. 2699):								
1954.....	873	73,195	289,859	58,393	205,532	584,323	843,299	1,427,622
1953 <sup>5</sup> .....	(NA)	71,303	273,985	52,270	193,579	544,140	723,420	1,267,560
1952 <sup>5</sup> .....	(NA)	61,480	222,980	48,981	157,552	444,601	711,800	1,156,401
1951 <sup>5</sup> .....	(NA)	63,682	220,285	51,311	158,091	514,389	756,928	1,271,317
1950 <sup>5</sup> .....	(NA)	65,352	206,539	53,183	148,772	454,813	641,527	1,096,340
1949 <sup>5</sup> .....	(NA)	60,652	177,325	49,806	124,402	361,781	478,310	840,091
1947.....	739	62,413	160,810	52,310	119,469	335,562	451,355	786,917

NA Not available.

<sup>1</sup>For the period 1949-1954, figures are based on employment for the payroll periods ended nearest the 15th of March, May, August and November. For 1947, they represent the average of 12 monthly figures. For earlier years, the production worker average was calculated as in 1947, but the figure for all employees represents the sum of the annual average number of production workers and the number of nonproduction workers reported for one payroll period (usually in October).

<sup>2</sup>Value of products less cost of materials, supplies, fuel, electric energy and contract work. See Introduction, "Value Added by Manufacture."

<sup>3</sup>Figures for years prior to 1935 do not include cost of contract work.

<sup>4</sup>For 1929 and 1947-1954, value of shipments: for all other years, value of production. See Introduction, "Value of Shipments."

<sup>5</sup>The figures for 1949-1953 represent estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period. Estimates with a standard error in excess of 15 percent generally have been omitted from this table.

<sup>6</sup>Data for 1939 do not include the converting operations of 213 paper and board products mills which were reported in combination with the primary mills. The general statistics for these operations were included in those for primary manufacture. Similar limitations apply generally to the data for earlier years. The figures for 1935 and prior years are further limited as to comparability with those for later years because (a) for 1899-1935, they exclude data for pulp goods, pressed and molded and printed and lithographed paper patterns, formerly classified in other industries, and (b) for 1933-1939, data for printed tags were excluded.

<sup>7</sup>In this industry, which contains a number of very small establishments, there is a possibility that some of these small establishments have been misclassified as to industry. This would not affect the statistics other than the number of establishments.

<sup>8</sup>The figures for Paper bags for 1935, and later years include data for certain establishments formerly classified in the discontinued industry "Stationery goods, n.e.c."

<sup>9</sup>The figures for "Paperboard boxes" for years prior to 1937 are not strictly comparable with those for 1937 and later years because they include data for fiber cans, tubes and drums which are shown as a separate industry classification for 1937-1954. Value added for 1937 on a basis comparable with 1935 was \$170.9 million.

<sup>10</sup>Data for "Fiber cans, tubes, and drums" are included in the figures for "Paperboard boxes" for years prior to 1937.

<sup>11</sup>The figures for 1947, but not for other years, have been revised for comparability with 1954 by including data for establishments primarily engaged in the manufacture of "laminated board; except laminated wallboard." Value added by manufacture for 1947 on a basis comparable with the other years was \$47.0 million.

<sup>12</sup>Die-cut paper and board" was formerly classified in the discontinued industries "Cardboard, not made in paper mills," "Card cutting and designing," and "Paper goods, n.e.c." Separate figures are, therefore, not available for years prior to 1937.

<sup>13</sup>"Pulp goods, pressed and molded" was formerly part of the discontinued industry "Synthetic-resin and molded and pressed pulp fabricated articles, n.e.c." Separate figures are, therefore, not available for years prior to 1937.



CONVERTED PAPER AND BOARD PRODUCTS

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Table 2.—GENERAL STATISTICS BY REGIONS AND STATES: 1954 AND 1947  
(For explanation of column captions see Introduction)

Industry, region, and State <sup>1</sup>	1954										1947		
	Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
	Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
Paper coating and glazing (S.I.C. 2641), total.....	277	132	27,697	123,991	20,017	42,091	80,101	282,067	340,124	622,192	15,240	22,269	165,580
New England.....	50	29	4,182	17,636	3,348	7,471	12,531	29,773	50,428	80,201	1,496	4,613	30,060
Massachusetts.....	26	18	2,313	9,569	1,900	4,242	6,992	14,802	26,360	41,162	(D)	2,033	12,388
Middle Atlantic.....	104	31	4,981	21,655	3,907	8,200	14,581	63,169	71,529	134,699	2,219	3,637	27,199
New York.....	60	15	1,818	7,490	1,517	3,218	5,179	15,371	23,983	39,355	(D)	1,190	7,333
New Jersey.....	21	9	2,020	9,638	1,479	3,228	6,141	22,843	33,838	56,682	(D)	1,562	14,583
Pennsylvania.....	23	7	1,141	4,527	910	1,753	3,260	24,955	13,707	38,662	581	885	5,282
East North Central.....	76	48	10,404	45,989	8,415	18,042	34,273	85,580	146,874	232,455	6,777	7,115	51,810
Ohio.....	23	14	3,243	15,198	2,621	5,616	11,404	31,081	46,484	77,565	(D)	1,412	14,394
Indiana.....	4	1	104	412	77	155	263	729	1,368	2,097	(D)	(D)	(D)
Illinois.....	21	13	1,902	8,658	1,328	2,671	5,117	17,417	24,286	41,704	(D)	(D)	(D)
Michigan.....	17	11	3,232	13,154	2,840	6,122	10,976	18,466	38,355	56,821	2,737	2,905	17,370
Wisconsin.....	11	9	1,922	8,565	1,546	3,476	6,511	17,886	36,379	54,266	1,315	2,023	13,170
West North Central.....	9	6	6,192	29,857	2,940	5,458	12,901	85,742	39,438	125,180	3,203	5,451	45,722
South.....	16	9	606	2,551	469	1,042	1,711	5,030	10,019	15,049	490	351	2,622
Pacific.....	22	9	1,331	6,302	936	1,875	4,101	12,770	21,835	34,606	1,053	1,102	8,167
Envelopes (S.I.C. 2651), total.....	196	144	15,902	63,044	13,019	26,517	43,516	101,430	93,910	195,341	6,942	13,797	68,253
New England.....	20	12	2,461	8,181	2,057	3,885	6,158	12,950	12,039	24,989	853	2,979	12,904
Middle Atlantic.....	57	37	3,425	14,321	2,824	6,077	9,709	21,704	21,331	43,035	3,218	2,976	16,373
New York.....	40	25	2,448	10,418	2,016	4,373	7,140	15,836	16,858	32,694	(D)	2,158	12,417
New Jersey.....	5	4	307	1,313	255	585	916	1,969	1,734	3,704	(D)	205	(D)
Pennsylvania.....	12	8	670	2,590	552	1,118	1,652	3,898	2,738	6,637	138	613	2,545
East North Central.....	40	36	4,905	20,326	4,073	8,177	14,312	31,270	30,134	61,405	(D)	4,376	20,294
Ohio.....	9	9	1,795	7,016	1,550	3,108	5,302	11,294	11,960	23,254	354	1,691	7,211
Illinois.....	20	18	2,098	9,026	1,729	3,495	6,278	13,435	12,722	26,157	643	1,893	9,623
Michigan.....	5	4	438	2,207	329	674	1,288	3,161	2,496	5,657	59	389	1,385
West North Central.....	26	18	2,008	8,420	1,587	3,335	5,359	13,652	10,768	24,421	(D)	1,649	9,284
Minnesota.....	10	7	525	2,241	424	868	1,408	3,607	3,003	6,610	103	414	(D)
Missouri.....	11	8	1,276	5,339	1,005	2,086	3,396	8,405	6,429	14,834	188	1,096	6,599
South Atlantic.....	14	12	1,098	3,678	912	1,862	2,580	6,884	6,782	13,667	279	(D)	(D)
Maryland.....	4	4	245	994	199	415	645	1,857	1,904	3,762	69	116	722
East South Central.....	6	4	224	593	195	410	465	1,034	1,308	2,342	118	(D)	(D)
West South Central.....	9	8	442	1,604	335	716	1,026	2,994	2,614	5,609	101	150	759
Texas.....	9	8	442	1,604	335	716	1,026	2,994	2,614	5,609	101	150	759
West.....	24	17	1,337	5,920	1,032	2,052	3,904	10,940	8,931	19,872	666	999	5,429
California.....	18	12	929	4,064	739	1,479	2,856	7,345	6,717	14,063	282	718	3,921
Paper bags (S.I.C. 2661), total.....	381	203	33,326	121,116	27,773	56,227	89,530	211,686	411,379	623,068	18,901	22,230	119,074
New England.....	24	11	1,696	5,515	1,423	2,790	4,142	8,961	15,951	24,912	394	727	3,463
Massachusetts.....	19	9	1,580	5,157	1,321	2,588	3,870	7,860	14,635	22,496	380	564	(D)
Middle Atlantic.....	131	59	6,070	23,567	4,770	9,698	15,486	43,256	64,674	107,930	2,928	6,349	33,278
New York.....	91	35	3,644	13,887	2,882	5,984	9,049	25,069	36,082	61,151	2,185	3,973	20,539
New Jersey.....	17	11	1,006	3,921	733	1,472	2,304	7,384	10,191	17,576	408	555	3,105
Pennsylvania.....	23	13	1,419	5,758	1,155	2,242	4,131	10,801	18,400	29,202	334	1,821	9,634
East North Central.....	77	36	5,684	22,314	4,468	9,051	14,718	35,721	61,857	97,578	2,316	4,457	21,099
Ohio.....	25	12	2,598	11,028	1,912	3,933	6,788	17,043	31,917	48,961	1,581	2,320	11,774
Illinois.....	35	15	1,902	7,693	1,535	3,132	5,156	13,132	20,584	33,716	(D)	1,259	6,487
West North Central.....	20	12	2,266	8,079	1,797	3,606	5,487	14,312	20,551	34,864	1,193	787	2,732
Minnesota.....	5	1	114	380	97	221	251	558	1,106	1,665	(D)	(D)	(D)
Missouri.....	11	8	1,570	5,541	1,235	2,383	3,616	7,475	15,868	23,344	259	(D)	(D)
South Atlantic.....	41	30	7,348	24,798	6,371	12,844	19,562	45,807	106,028	151,836	4,763	3,558	18,597
Virginia.....	9	7	1,210	3,654	1,046	2,025	2,754	7,182	14,643	21,825	412	644	3,308
West Virginia.....	4	4	562	1,934	487	1,057	1,537	3,882	6,230	10,112	36	613	(D)
Georgia.....	9	6	2,861	9,838	2,519	4,936	7,904	15,632	44,486	60,118	2,335	(D)	(D)
Florida.....	9	6	2,358	8,041	2,029	4,241	6,493	16,308	36,371	52,680	1,645	...	...
East South Central.....	12	9	2,925	10,616	2,569	5,420	8,960	16,750	35,100	51,851	2,254	2,047	12,754
Alabama.....	6	5	2,334	8,666	2,104	4,377	7,498	12,927	28,071	40,998	2,078	(D)	(D)
West South Central.....	29	20	4,327	14,688	3,945	8,051	12,756	25,697	66,792	92,490	2,149	2,765	16,123
Arkansas.....	5	4	1,169	3,999	1,121	2,316	3,742	9,049	19,649	28,698	481	(D)	(D)
Louisiana.....	11	9	2,344	7,941	2,200	4,407	7,073	11,228	36,067	47,296	939	1,555	8,935
West.....	47	26	3,008	11,537	2,428	4,763	8,416	21,181	40,422	61,604	2,899	1,540	11,028
California.....	33	17	1,969	7,764	1,522	3,046	5,347	14,274	27,108	41,383	2,492	1,038	7,622

See footnotes at end of table.



## MANUFACTURES--INDUSTRY STATISTICS

Table 2.—GENERAL STATISTICS BY REGIONS AND STATES: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Industry, region, and State <sup>1</sup>	1954										1947		
	Establishments, number		All employees		Production workers			Value added by manufacture	Cost of materials, etc.	Value of shipments	Capital expenditures, new	All employees, number	Value added by manufacture
	Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)		(\$1,000)
Paperboard boxes (S.I.C. 2671), total.....	1,704	1,123	132,964	525,685	107,762	221,054	371,275	895,298	1,284,281	2,179,580	60,490	109,745	632,933
New England.....	201	129	13,685	49,686	11,358	23,339	35,677	83,391	107,619	191,011	3,658	12,166	61,659
New Hampshire.....	6	2	109	337	95	175	251	552	887	1,439	86	131	389
Massachusetts.....	114	81	8,642	30,213	7,263	14,985	22,040	54,146	68,908	123,055	2,463	7,679	40,404
Connecticut.....	49	29	3,860	16,253	3,102	6,481	11,419	23,786	33,445	57,232	880	3,250	(D)
Middle Atlantic.....	653	413	41,623	161,785	34,140	69,380	114,543	272,349	334,750	607,099	11,215	37,972	214,867
New York.....	361	209	20,019	77,717	16,656	33,635	56,089	128,377	142,600	270,977	4,817	20,344	109,539
New Jersey.....	109	75	9,350	39,404	7,383	15,270	26,617	67,490	89,425	156,916	2,470	7,096	49,005
Pennsylvania.....	183	129	12,254	44,663	10,101	20,474	31,837	76,481	102,724	179,205	3,927	10,532	56,323
East North Central.....	379	256	38,561	166,487	30,541	62,830	115,124	282,270	414,336	696,606	16,871	30,891	201,329
Ohio.....	96	69	10,599	46,640	8,404	17,468	31,772	74,099	119,988	194,088	6,762	9,064	56,844
Indiana.....	34	24	4,716	20,038	3,629	7,344	13,491	33,213	47,445	80,659	1,046	4,195	(D)
Illinois.....	155	98	13,003	54,391	10,349	20,941	37,609	94,727	131,308	226,036	4,453	10,656	(D)
Michigan.....	54	38	6,063	27,259	4,878	9,991	19,879	47,932	66,122	114,055	2,868	3,832	27,642
Wisconsin.....	40	27	4,178	18,159	3,279	7,084	12,371	32,297	49,470	81,767	1,740	3,144	21,933
West North Central.....	94	70	7,579	30,064	6,186	12,675	21,134	51,422	80,466	131,888	6,057	7,480	38,629
Iowa.....	15	11	788	2,839	658	1,391	2,204	6,068	11,651	17,720	376	704	3,724
Kansas.....	7	5	708	3,434	529	1,203	2,277	5,699	11,653	17,353	263	659	(D)
South.....	235	170	21,599	75,028	17,414	36,227	51,864	126,862	218,489	345,352	14,066	14,197	75,709
West Virginia.....	12	7	687	2,246	601	1,191	1,767	3,764	7,138	10,902	116	734	3,266
North Carolina.....	33	25	2,371	6,852	2,062	4,161	5,073	14,521	19,824	34,345	605	1,524	(D)
Alabama.....	5	4	718	2,102	610	1,112	1,327	2,858	4,039	6,898	93	(D)	(D)
Mississippi.....	5	4	320	995	259	535	675	1,019	3,206	4,226	(D)	(D)	(D)
Arkansas.....	4	4	153	467	132	263	317	766	1,109	1,875	55	148	(D)
Louisiana.....	12	9	2,361	8,832	1,877	3,935	6,050	15,794	31,526	47,321	714	1,361	8,679
West.....	142	85	9,915	42,633	8,120	16,602	32,930	79,002	128,620	207,623	8,621	7,039	40,740
Colorado.....	9	7	372	1,352	300	610	951	2,741	3,240	5,981	239	376	(D)
Washington.....	12	10	1,342	5,513	1,151	2,264	4,600	13,049	22,592	35,641	709	1,306	6,207
California.....	114	63	7,867	34,477	6,404	13,181	26,426	61,011	99,362	160,374	7,377	4,937	30,222
Fiber cans, tubes, drums, etc. (S.I.C. 2674), total.....	184	99	12,088	44,958	10,460	21,117	34,861	74,377	72,419	146,797	3,408	9,237	36,354
New England.....	25	12	1,079	3,521	959	2,039	2,810	5,710	5,470	11,180	360	925	3,779
Massachusetts.....	15	8	489	1,572	434	958	1,245	2,926	2,993	5,919	279	341	1,426
Connecticut.....	4	1	142	558	116	213	407	823	568	1,392	15	(D)	(D)
Middle Atlantic.....	70	34	3,512	13,659	3,104	6,352	10,644	24,737	24,109	48,847	1,121	2,715	12,763
New York.....	22	9	843	3,125	718	1,474	2,208	5,780	4,703	10,484	141	661	3,061
New Jersey.....	31	14	1,535	6,139	1,373	2,865	4,739	9,957	8,565	18,522	627	1,068	4,012
Pennsylvania.....	17	11	1,133	4,394	1,012	2,011	3,695	8,999	10,840	19,840	352	986	5,690
East North Central.....	44	25	2,916	11,223	2,547	5,314	9,101	18,210	19,858	38,068	778	2,686	9,468
Ohio.....	14	8	1,314	5,315	1,129	2,364	4,308	8,628	9,434	18,062	243	1,437	5,408
Indiana.....	5	2	101	345	87	188	279	596	663	1,260	70	(D)	(D)
Illinois.....	12	7	827	3,276	717	1,458	2,615	5,424	5,721	11,146	287	811	(D)
Michigan.....	7	4	247	880	221	441	706	1,172	1,036	2,208	85	134	497
Wisconsin.....	6	4	426	1,406	392	862	1,192	2,388	3,003	5,391	92	(D)	(D)
West North Central.....	8	6	1,110	4,212	935	1,946	3,248	6,577	7,105	13,683	255	731	2,471
South.....	26	17	2,972	10,388	2,498	4,619	7,541	16,109	12,264	28,374	592	2,055	7,417
West.....	11	5	497	1,954	415	845	1,516	3,032	3,610	6,643	301	125	456
California.....	7	4	373	1,521	304	643	1,154	1,961	2,776	4,738	243	125	456
Die-cut paper and board (S.I.C. 2691), total.....	352	115	12,260	47,940	9,933	19,677	34,633	97,964	108,687	206,652	6,424	9,281	50,224
New England.....	34	9	616	2,169	520	1,251	1,569	3,482	3,608	7,091	150	558	2,876
Massachusetts.....	26	8	509	1,797	432	1,076	1,279	3,130	2,612	5,742	(D)	423	(D)
Middle Atlantic.....	162	48	5,257	20,680	4,212	8,186	14,269	46,316	40,881	87,197	1,250	4,238	26,405
New York.....	113	36	4,266	16,435	3,477	6,718	11,773	38,635	30,438	69,074	581	3,701	24,203
New Jersey.....	29	10	855	3,740	625	1,279	2,220	6,798	9,600	16,399	(D)	186	(D)
Pennsylvania.....	20	2	135	504	109	188	275	881	841	1,723	(D)	351	(D)
North Central.....	109	43	4,982	19,840	4,082	7,973	14,260	32,372	44,614	76,987	4,250	3,805	16,030
Ohio.....	16	6	402	1,460	323	637	993	2,880	3,224	6,104	31	940	3,831
Indiana.....	6	3	271	922	215	450	709	2,245	3,685	5,931	(D)	(D)	(D)
Wisconsin.....	9	5	367	1,310	314	584	897	2,395	3,275	5,671	410	(D)	(D)
South and West.....	47	15	1,404	5,250	1,117	2,266	4,534	15,792	19,583	35,375	773	680	4,913
Wallpaper (S.I.C. 2693), total.....	76	37	3,636	14,330	2,926	6,038	10,325	19,005	20,662	39,668	526	5,462	32,732
New England.....	6	3	273	1,155	225	461	840	1,687	1,391	3,079	32	3,144	20,892
Middle Atlantic.....	39	17	1,705	6,618	1,427	2,969	5,069	9,514	9,369	18,884	226		
North Central.....	27	16	1,597	6,299	1,232	2,513	4,258	7,316	9,753	17,069	218	(D)	(D)
Ohio.....	4	3	167	654	135	258	454	918	831	1,749	(D)	170	(D)
Illinois.....	18	10	1,284	5,057	985	2,032	3,406	5,557	7,976	13,533	184	1,735	8,699
Pacific.....	4	1	61	257	41	95	157	487	148	636	(D)	(D)	(D)

See footnotes at end of table.

CONVERTED PAPER AND BOARD PRODUCTS

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Table 2.—GENERAL STATISTICS BY REGIONS AND STATES: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Industry, region, and State <sup>1</sup>	1954											1947	
	Establish- ments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
	Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
Pulp goods, pressed and molded (S.I.C. 2694), total.....	29	16	2,882	11,630	2,401	5,018	9,111	25,439	16,853	42,293	3,215	1,748	9,672
New England.....	4	4	1,321	4,847	1,128	2,305	4,003	11,187	6,586	17,774	1,911	1,518	8,724
Middle Atlantic.....	7	4	634	2,881	522	1,119	2,181	5,721	4,802	10,523	555		
North Central.....	10	6	708	3,069	578	1,267	2,337	6,178	3,826	10,005	566		
South and West.....	8	2	218	832	171	325	588	2,354	1,637	3,990	182	230	948
Paper and board pro- ducts,n.e.c.(S.I.C. 2699), total.....	873	438	73,195	289,859	58,393	120,699	205,532	584,323	843,299	1,427,622	47,034	62,413	335,562
New England.....	124	55	9,891	37,628	7,243	14,812	22,925	71,541	84,518	156,060	7,164	11,329	64,093
Massachusetts.....	85	34	6,386	25,203	4,410	9,104	14,122	49,119	46,595	95,715	5,657	7,796	44,386
Rhode Island.....	4	3	223	1,020	178	387	528	1,750	2,467	4,218	97	(D)	(D)
Connecticut.....	16	6	1,473	5,389	1,112	2,292	3,632	8,366	7,264	15,631	405	1,349	5,710
Middle Atlantic.....	306	148	24,415	99,226	19,289	40,314	69,363	186,741	284,264	471,005	12,123	22,424	118,850
New York.....	190	84	13,252	52,572	10,605	22,157	36,888	100,637	135,042	235,680	5,694	12,647	68,673
New Jersey.....	49	22	3,625	15,681	2,937	5,975	11,807	29,191	37,650	66,842	802	3,697	20,058
Pennsylvania.....	67	42	7,537	30,972	5,746	12,181	20,666	56,912	111,571	168,483	5,625	6,080	30,119
East North Central.....	195	118	21,640	88,990	17,512	36,097	64,911	179,635	265,644	445,280	9,312	19,061	104,288
Ohio.....	34	24	3,452	13,324	2,633	5,144	8,383	26,149	22,616	48,765	1,624	2,363	11,455
Indiana.....	19	11	858	2,859	680	1,258	1,800	4,439	4,836	9,276	82	881	(D)
Illinois.....	73	38	4,543	18,419	3,512	7,056	11,945	32,932	33,582	66,515	2,048	5,886	27,019
Michigan.....	29	19	6,194	26,347	5,133	10,662	20,480	51,655	61,704	113,360	2,814	5,746	34,421
Wisconsin.....	40	26	6,591	28,039	5,552	11,975	22,302	64,458	142,904	207,363	2,743	4,185	(D)
West North Central.....	48	21	3,757	12,686	3,112	6,244	9,387	31,261	35,562	66,824	3,018	2,714	12,625
Missouri.....	21	12	2,449	7,975	2,011	4,022	5,703	20,006	20,188	40,194	(D)	1,863	6,520
South Atlantic.....	50	31	4,172	14,352	3,410	7,252	10,166	37,035	38,735	75,770	3,411	(D)	(D)
Maryland.....	11	7	1,149	3,734	918	1,842	2,619	8,239	7,738	15,978	1,207	231	627
Georgia.....	10	7	1,234	4,522	1,004	2,171	2,960	12,333	12,093	24,427	899	617	(D)
East South Central.....	15	7	1,653	6,314	1,436	2,990	5,075	11,872	34,110	45,983	460	(D)	(D)
Tennessee.....	8	4	1,447	5,692	1,268	2,656	4,636	9,990	31,752	41,742	(D)	456	(D)
West South Central.....	23	10	1,287	4,560	1,049	2,390	3,426	13,686	15,551	29,238	831	(D)	(D)
Texas.....	16	5	479	1,504	404	813	1,129	2,860	5,008	7,868	243	161	580
West.....	112	48	6,376	26,101	5,338	10,598	20,276	52,548	84,911	137,460	10,714	2,937	(D)
California.....	86	36	4,122	16,937	3,369	6,679	12,743	35,405	45,766	81,171	4,243	1,732	11,554

Note: Detailed figures may not add to the totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>General statistics for some producing States are not shown separately in the table (see INTRODUCTION "Confidentiality of Data for Individual Companies"). Such States are shown below with the number of establishments in each State for 1954 and, in parentheses, the number of employees or the employment-size range for that State for 1954:

S.I.C. 2641, Paper Coating and Glazing: New England—Maine, 2 (100-249); New Hampshire, 1 (1,000-2,499); Vermont, 4 (250-499); Rhode Island, 8 (100-249); Connecticut, 9 (20-99); West North Central—Minnesota, 4 (5,844); Iowa, 1 (20-99); Missouri, 3 (250-499); Kansas, 1 (1-19); South—Delaware, 1 (20-99); Maryland, 2 (1-19); Virginia, 2 (100-249); North Carolina, 1 (1-19); South Carolina, 1 (20-99); Georgia, 2 (100-249); Florida, 2 (1-19); Tennessee, 1 (1-19); Alabama, 1 (20-99); Louisiana, 1 (20-99); Texas, 2 (20-99); Pacific—Washington, 1 (100-249); Oregon, 2 (20-99); California, 19 (1,000-2,499).

S.I.C. 2651, Envelopes: New England—New Hampshire, 1 (1-19); Massachusetts, 16 (1,940); Connecticut, 3 (500-999); East North Central—Indiana, 3 (250-499); Wisconsin, 3 (100-249); West North Central—Iowa, 2 (20-99); Nebraska, 3 (100-249); South Atlantic—District of Columbia, 1 (20-99); Virginia, 2 (250-499); West Virginia, 1 (20-99); Georgia, 4 (250-499); Florida, 2 (1-19); East South Central—Kentucky, 2 (20-99); Tennessee, 2 (20-99); Alabama, 1 (20-99); Mississippi, 1 (100-249); West—Colorado, 2 (100-249); Arizona, 1 (1-19); Washington, 2 (20-99); Oregon, 1 (100-249).

S.I.C. 2661, Paper Bags: New England—Maine, 2 (20-99); Vermont, 1 (20-99); Rhode Island, 1 (1-19); Connecticut, 1 (1-19); East North Central—Indiana, 7 (500-999); Wisconsin, 10 (250-499); West North Central—Iowa, 3 (500-999); Kansas, 1 (20-99); South Atlantic—Maryland, 4 (100-249); North Carolina, 4 (100-249); South Carolina, 2 (20-99); East South Central—Kentucky, 3 (250-499); Tennessee, 3 (100-249); West South Central—Oklahoma, 1 (1-19); Texas, 12 (500-999); West—Arizona, 1 (20-99); Washington, 8 (500-999); Oregon, 5 (250-499).

S.I.C. 2671, Paperboard Boxes: New England—Maine, 11 (250-499); Vermont, 1 (1-19); Rhode Island, 20 (500-999); West North Central—Minnesota, 22 (1,000-2,499); Missouri, 46 (4,003); South Dakota, 1 (1-19); Nebraska, 3 (100-249); South—Delaware, 2 (1-19); Maryland, 25 (3,462); District of Columbia, 3 (1-19); Virginia, 19 (1,000-2,499); South Carolina, 10 (500-999); Georgia, 20 (1,000-2,499); Florida, 16 (1,000-2,499); Kentucky, 12 (500-999); Tennessee, 25 (1,000-2,499); Oklahoma, 5 (250-499); Texas, 27 (2,500-4,999); West—Utah, 2 (100-249); Oregon, 5 (100-249).

S.I.C. 2674, Fiber Cans, Tubes, Drums, etc.: New England—Maine, 2 (1-19); New Hampshire, 1 (20-99); Rhode Island, 3 (250-499); West North Central—Minnesota, 2 (100-249); Missouri, 5 (500-999); Kansas, 1 (20-99); South—Delaware, 1 (100-249); Maryland, 3 (20-99); District of Columbia, 1 (100-249); Virginia, 1 (1-19); North Carolina, 5 (20-99); South Carolina, 3 (1,453); Georgia, 2 (100-249); Florida, 2 (100-249); Kentucky, 1 (1-19); Tennessee, 3 (250-499); Alabama, 1 (100-249); Mississippi, 1 (100-249); Louisiana, 1 (20-99); Texas, 1 (20-99); West—Colorado, 1 (1-19); Utah, 1 (1-19); Oregon, 2 (100-249).

S.I.C. 2691, Die-cut Paper and Board: New England—Vermont, 1 (1-19); Rhode Island, 4 (20-99); Connecticut, 3 (1-19); North Central—Illinois, 42 (1,000-2,499); Michigan, 20 (1,000-2,499); Minnesota, 3 (250-499); Iowa, 2 (20-99); Missouri, 9 (100-249); Nebraska, 1 (1-19); Kansas, 1 (1-19); South and West—Maryland, 3 (1-19); District of Columbia, 2 (250-499); Virginia, 2 (100-249); North Carolina, 3 (20-99); Florida, 2 (1-19); Alabama, 1 (1-19); Arkansas, 1 (1-19); Louisiana, 3 (100-249); Texas, 1 (1-19); Colorado, 2 (1-19); Washington, 2 (1-19); Oregon, 1 (1-19); California, 24 (500-999).

S.I.C. 2693, Wallpaper: New England—Massachusetts, 3 (100-249); Connecticut, 3 (20-99); Middle Atlantic—New York, 26 (1,071); New Jersey, 4 (20-99); Pennsylvania, 9 (500-999); North Central—Indiana, 2 (20-99); Michigan, 1 (1-19); Wisconsin, 1 (20-99); Missouri, 1 (20-99); Pacific—California, 4 (20-99).

S.I.C. 2694, Pulp Goods, Pressed and Molded: New England—Maine, 2 (500-999); New Hampshire, 1 (250-499); Massachusetts, 1 (250-499); Middle Atlantic—New York, 4 (500-999); Pennsylvania, 3 (20-99); North Central—Indiana, 3 (250-499); Illinois, 1 (100-249); Wisconsin, 4 (100-249); Missouri, 2 (20-99); South and West—Alabama, 1 (1-19); Texas, 1 (20-99); Washington, 1 (1-19); Oregon, 2 (1-19); California, 3 (20-99).

S.I.C. 2699, Paper and Board Products, N.E.C.: New England—Maine, 2 (250-499); New Hampshire, 14 (500-999); Vermont, 3 (500-999); West North Central—Minnesota, 15 (250-499); Iowa, 4 (100-249); Nebraska, 2 (20-99); Kansas, 6 (500-999); South Atlantic—Delaware, 1 (100-249); District of Columbia, 3 (20-99); Virginia, 5 (500-999); West Virginia, 1 (1-19); North Carolina, 6 (100-249); South Carolina, 3 (250-499); Florida, 10 (250-499); East South Central—Kentucky, 5 (20-99); Tennessee, 2 (100-249); West South Central—Arkansas, 3 (500-999); Louisiana, 3 (100-249); Oklahoma, 1 (1-19); West—Montana, 2 (1-19); Wyoming, 1 (1-19); Colorado, 3 (20-99); Washington, 10 (1,000-2,499); Oregon, 10 (500-999).

## MANUFACTURES—INDUSTRY STATISTICS

Table 3.—DETAILED STATISTICS FOR THE UNITED STATES: 1954

(For explanation of line captions see Introduction)

Item	Paper coating and glazing (S.I.C. 2641)		Envelopes (S.I.C. 2651) all estab- lishments	Paper bags (S.I.C. 2661) all estab- lishments	Paperboard boxes (S.I.C. 2671) all estab- lishments
	All estab- lishments	Establish- ments with 90% or more primary prod- uct special- ization			
Primary product specialization ratio <sup>1</sup> .....	85	xxx	96	91	96
Coverage ratio <sup>2</sup> .....	86	xxx	92	88	98
Number of establishments, total.....	277	198	196	381	1,704
With 1-19 employees.....	145	112	52	178	581
With 20-99 employees.....	68	44	91	115	714
With 100 employees and over.....	64	42	53	88	409
All employees:					
Number (average for year).....	27,697	13,954	15,902	33,326	132,964
Payroll.....\$1,000..	123,991	61,298	63,044	121,116	525,685
Production workers:					
Number (average for year).....	20,017	11,238	13,019	27,773	107,762
Man-hours.....1,000..	42,091	23,976	26,517	56,227	221,054
Wages.....\$1,000..	80,101	43,816	43,516	89,530	371,275
Value added by manufacture.....do....	282,067	123,399	101,430	211,688	895,298
Cost of materials, etc.....do....	340,124	192,464	93,910	411,379	1,284,281
Value of shipments.....do....	622,192	315,864	195,341	623,068	2,179,580
Value added by resales.....do....	1,588	928	841	2,118	4,312
Cost of products bought and resold.....do....	15,392	5,480	9,075	14,169	24,999
Sales of products bought and resold.....do....	16,981	6,408	9,917	16,287	29,311
Total inventories, beginning of year.....do....	78,345	33,266	24,142	67,295	208,574
Total inventories, end of year.....do....	75,792	34,652	24,450	69,939	207,324
Capital expenditures, new.....do....	15,240	6,846	6,942	18,901	60,490
Number of employees for selected months:					
March.....	27,846	13,971	15,975	33,108	130,169
May.....	27,819	13,977	15,794	33,036	129,916
August.....	27,566	13,832	15,744	33,662	132,895
November.....	27,557	14,037	16,094	33,496	138,879
Cost of materials, fuel, electricity and contract work, total.....\$1,000..	340,124	192,464	93,910	411,379	1,284,281
Materials, parts, containers, and supplies consumed.....do....	331,177	188,091	91,646	406,534	1,263,317
Fuels consumed, total.....do....	2,604	1,443	387	845	7,601
Bituminous coal and anthracite:					
Quantity.....1,000 short tons..	127	(NA)	7	25	273
Value.....\$1,000..	1,142	(NA)	82	192	2,213
Coke:					
Quantity.....1,000 short tons..	( <sup>3</sup> )	(NA)	...	...	2
Value.....\$1,000..	11	(NA)	...	...	48
Fuel oil:					
Quantity.....1,000 barrels..	244	(NA)	38	90	1,112
Value.....\$1,000..	851	(NA)	140	359	3,691
Gas:					
Quantity.....million cubic feet..	1,427	(NA)	216	805	3,659
Value.....\$1,000..	464	(NA)	139	238	1,283
Other fuels:					
Value.....do....	136	(NA)	26	56	366
Electric energy:					
Purchased:					
Quantity.....million kwh..	254	171	47	114	453
Cost.....\$1,000..	3,519	1,999	852	1,556	7,324
Generated.....million kwh..	27	20	...	15	55
Sold:					
Quantity.....do....	...	...	...	...	3
Value.....\$1,000..	...	...	...	...	40
Cost of contract work.....do....	2,824	931	1,025	2,444	6,039
Manufacturers' inventories:					
Beginning of year, total.....do....	78,345	33,266	24,142	67,295	208,574
Finished products.....do....	27,582	11,404	5,720	20,128	50,825
Work-in-process.....do....	9,462	4,639	2,684	3,555	33,345
Materials, supplies, fuel, etc.....do....	41,301	17,222	15,738	43,612	124,404
End of year, total.....do....	75,792	34,652	24,450	69,939	207,324
Finished products.....do....	28,223	12,875	6,177	21,902	53,889
Work-in-process.....do....	10,135	5,071	2,754	4,065	33,032
Materials, supplies, fuel, etc.....do....	37,434	16,705	15,519	43,972	120,403
Expenditures for plant and equipment, total.....do....	15,691	7,073	8,148	19,749	63,922
Capital expenditures, new.....do....	15,240	6,846	6,942	18,901	60,490
New structures and additions to plant.....do....	2,297	1,306	1,630	6,654	17,751
New machinery and equipment.....do....	12,943	5,539	5,312	12,247	42,739
Expenditures for used plant and equipment.....do....	( <sup>4</sup> )	( <sup>4</sup> )	1,206	848	3,432
Horsepower rating of power equipment at end of 1954:					
Horsepower of prime movers and electric motors driven by purchased energy, total.....1,000 hp..	136	90	21	54	384
Engines, etc., driving electric generators.....do....	33	27	1	3	37
Engines, etc., not driving electric generators.....do....	3	2	( <sup>5</sup> )	1	14
Electric motors driven by purchased energy.....do....	99	61	20	50	333
Electric motors driven by energy generated at the establishment.....do....	19	15	...	24	18

See footnotes at end of table.



CONVERTED PAPER AND BOARD PRODUCTS

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Table 3.—DETAILED STATISTICS FOR THE UNITED STATES: 1954—Continued

Item	Fiber cans, tubes, drums, etc. (S.I.C. 2674)	Die-cut paper and board (S.I.C. 2691)		Wallpaper (S.I.C. 2693)	Pulp goods pressed and moulded (S.I.C. 2694)	Paper and board products, n.e.c. (S.I.C. 2699)
		All establishment	Establishments with 90% or more primary product specialization			
Primary product specialization ratio <sup>1</sup> .....	97	88	xxx	99	100	90
Coverage ratio <sup>2</sup> .....	87	82	xxx	98	93	89
Number of establishments, total.....	184	352	250	76	29	873
With 1-19 employees.....	85	237	179	39	13	435
With 20-99 employees.....	66	88	55	26	8	259
With 100 employees and over.....	33	27	16	11	8	179
All employees:						
Number (average for year).....	12,088	12,260	7,471	3,636	2,882	73,195
Payroll.....\$1,000..	44,958	47,940	28,834	14,330	11,630	289,899
Production workers:						
Number (average for year).....	10,460	9,933	6,202	2,926	2,401	58,393
Man-hours.....1,000..	21,117	19,677	12,527	6,038	5,018	120,699
Wages.....\$1,000..	34,861	34,633	21,909	10,325	9,111	205,532
Value added by manufacture.....do...	74,377	97,964	62,237	19,005	25,439	584,323
Cost of materials, etc.....do...	72,419	108,687	71,477	20,662	16,853	843,299
Value of shipments.....do...	146,797	206,652	133,715	39,668	42,293	1,427,622
Value added by resales.....do...	165	1,498	763	56	20	10,482
Cost of products bought and resold.....do...	1,589	8,178	4,691	188	68	44,006
Sales of products bought and resold.....do...	1,754	9,676	5,455	244	88	54,488
Total inventories, beginning of year.....do...	16,159	23,644	14,424	11,052	3,734	161,458
Total inventories, end of year.....do...	13,817	24,122	14,314	11,576	4,463	167,397
Capital expenditures, new.....do...	3,408	6,424	4,722	526	3,215	47,034
Number of employees for selected months:						
March.....	13,049	11,932	7,085	3,467	2,888	72,901
May.....	11,987	12,131	7,412	3,620	2,838	73,467
August.....	11,480	12,097	7,417	3,653	2,969	73,529
November.....	11,837	12,881	7,969	3,804	2,831	72,885
Cost of materials, fuel, electricity and contract work, total.....\$1,000..	72,419	108,687	71,477	20,662	16,853	843,299
Materials, parts, containers, and supplies consumed.....do...	70,749	106,884	70,427	19,785	14,474	830,819
Fuels consumed, total.....do...	605	507	247	501	1,319	4,086
Bituminous coal and anthracite:						
Quantity.....1,000 short tons..	19	23	(NA)	14	37	150
Value.....\$1,000..	190	243	(NA)	124	373	1,419
Fuel oil:						
Quantity.....1,000 barrels ..	82	43	(NA)	66	95	688
Value.....\$1,000..	288	168	(NA)	217	299	2,010
Gas:						
Quantity.....million cubic feet..	231	133	(NA)	48	619	1,029
Value.....\$1,000..	117	85	(NA)	23	229	513
Other fuels:						
Value.....do...	10	11	(NA)	137	418	144
Electric energy:						
Purchased:						
Quantity.....million kwh..	39	38	22	14	140	401
Cost.....\$1,000..	734	688	401	253	1,060	5,127
Generated.....million kwh..	1	3	1	...	7	113
Sold:						
Quantity.....do...	...	...	...	...	...	2
Value.....do...	...	...	...	...	...	34
Cost of contract work.....do...	331	608	402	123	...	3,267
Manufacturers' inventories:						
Beginning of year, total.....do...	16,159	23,644	14,424	11,052	3,734	161,458
Finished products.....do...	2,109	6,643	3,870	7,965	2,279	66,055
Work-in-process.....do...	1,785	4,302	2,941	578	(4)	21,401
Materials, supplies, fuel, etc.....do...	12,265	12,699	7,613	2,509	1,351	74,001
End of year, total.....do...	13,817	24,122	14,314	11,576	4,463	167,397
Finished products.....do...	2,148	6,786	3,946	8,231	2,840	71,255
Work-in-process.....do...	1,603	4,411	2,952	652	(4)	21,016
Materials, supplies, fuel, etc.....do...	10,066	12,925	7,416	2,693	1,527	75,126
Expenditures for plant and equipment.....do...	3,614	6,876	5,012	556	3,515	48,412
Capital expenditures, new.....do...	3,408	6,424	4,722	526	3,215	47,034
New structures and additions to plant.....do...	559	2,405	2,147	(4)	(4)	14,350
New machinery and equipment.....do...	2,849	4,019	2,574	(4)	2,962	32,684
Expenditures for used plant and equipment.....do...	(4)	(4)	(4)	(4)	(4)	1,378
Horsepower rating of power equipment at end of 1954:						
Horsepower of prime movers and electric motors driven by purchased energy, total.....1,000 hp..	42	48	23	11	25	178
Engines, etc., driving electric generators.....do...	19	1	1	1	2	11
Engines, etc., not driving electric generators.....do...	1	(5)	(5)	(5)	(5)	3
Electric motors driven by purchased energy.....do...	22	47	22	9	23	164
Electric motors driven by energy generated at the establishment.....do...	8	(5)	1	...	2	11

Note: Detailed figures may not add to the totals because of independent rounding. xxx Not applicable. NA Not applicable. <sup>1</sup>The specialization ratio compares the given industry's shipments of its primary products to its total shipments of all products. (The primary products are listed in Tables 5B and 6A; the first 4-digits of the product code represent the industry code to which the product is primary.) Columns containing totals for establishments with 90% or more primary product specialization are shown only for those industries having a primary product specialization of less than 90%. <sup>2</sup>The coverage ratio measures the extent to which the total shipments of products primary to the given industry are shipped by establishments classified in that industry. <sup>3</sup>Less than 500 tons. <sup>4</sup>Less than \$500 thousand. <sup>5</sup>Less than 500 hp.



## MANUFACTURES—INDUSTRY STATISTICS

Table 4.—SELECTED STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR THE UNITED STATES: 1954

(Value figures in thousands of dollars. For explanation of line captions see Introduction. Data which cannot be shown without disclosing information for individual companies have been combined with figures for other size classes. A (D) appears in the column where the figure has been omitted and the combined figure is underlined and shown in the size-class to the left)

Ind. code	Industry and item	Total, all estab- lish- ments	Establishments with an average of—									
			1-4 em- ployees	5-9 em- ployees	10-19 em- ployees	20-49 em- ployees	50-99 em- ployees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
2641	Paper coating and glazing:											
	Number of establishments...	277	64	39	42	39	29	39	16	6	2	1
	Number of employees.....	27,697	174	288	599	1,260	2,072	6,106	5,289	<u>11,906</u>	(D)	(D)
	Value added by manufacture.	282,067	1,444	2,371	5,287	9,264	16,318	56,006	44,136	<u>147,237</u>	(D)	(D)
2651	Envelopes:											
	Number of establishments...	196	14	16	22	49	42	41	10	2	...	...
	Number of employees.....	15,902	38	112	335	1,588	3,034	6,446	4,347	(D)	...	...
	Value added by manufacture.	101,430	188	744	2,091	9,572	21,110	43,596	<u>24,127</u>	(D)	...	...
2661	Paper bags:											
	Number of establishments...	381	75	64	39	77	38	54	25	7	2	...
	Number of employees.....	33,326	202	476	587	2,435	2,938	9,052	8,942	<u>8,691</u>	(D)	...
	Value added by manufacture.	211,688	1,459	2,970	3,638	15,871	22,295	57,234	53,674	<u>54,544</u>	(D)	...
2671	Paperboard boxes:											
	Number of establishments...	1,704	170	146	265	456	258	295	85	27	2	...
	Number of employees.....	132,964	418	1,054	3,876	15,000	18,284	45,580	28,855	<u>19,893</u>	(D)	...
	Value added by manufacture.	895,298	2,599	5,855	18,965	75,897	111,666	319,467	205,841	<u>155,004</u>	(D)	...
2674	Fiber cans, tubes, drums, etc:											
	Number of establishments...	184	29	27	29	35	31	23	7	2	1	...
	Number of employees.....	12,088	73	194	399	1,181	2,194	3,124	<u>4,920</u>	(D)	(D)	...
	Value added by manufacture.	74,377	481	1,162	2,133	7,025	14,026	18,917	<u>30,631</u>	(D)	(D)	...
2691	Die-Cut paper and board:											
	Number of establishments...	352	119	55	63	64	24	19	5	3	...	...
	Number of employees.....	12,260	311	389	897	1,983	1,679	3,051	1,862	2,085	...	...
	Value added by manufacture.	97,964	2,245	2,316	5,353	12,379	10,119	21,767	21,187	22,596	...	...
2693	Wallpaper:											
	Number of establishments...	76	13	16	10	17	9	9	1	1	...	...
	Number of employees.....	3,636	37	115	169	563	578	<u>2,172</u>	(D)	(D)	...	...
	Value added by manufacture.	19,005	220	771	1,209	3,035	3,012	<u>10,757</u>	(D)	(D)	...	...
2694	Pulp goods, pressed & molded:											
	Number of establishments...	29	4	2	7	3	5	4	3	1	...	...
	Number of employees.....	2,882	10	<u>128</u>	(D)	88	348	<u>2,306</u>	...	(D)	...	...
	Value added by manufacture.	25,439	14	<u>700</u>	(D)	465	3,289	<u>20,969</u>	...	(D)	...	...
2699	Paper and board products, nec:											
	Number of establishments...	873	203	99	133	155	104	110	44	16	9	...
	Number of employees.....	73,195	521	715	1,959	4,895	7,305	16,917	15,728	10,611	14,542	...
	Value added by manufacture.	584,323	3,363	4,833	12,238	32,828	56,618	140,263	124,656	92,919	116,602	...

Note: Detailed figures may not add to the totals due to independent rounding.

CONVERTED PAPER AND BOARD PRODUCTS

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Table 5A.—INDUSTRY-PRODUCT ANALYSIS—SUMMARY OF INDUSTRY AND PRIMARY PRODUCT SHIPMENTS, SPECIALIZATION RATIOS AND COVERAGE RATIOS  
FOR THE UNITED STATES: 1954 AND 1947

Industry code	Industry and census year	Value of shipments					Value of primary products shipped			
		Total	Primary products	Secondary products	Miscel- laneous receipts	Primary product speciali- zation ratio <sup>1</sup>	Total (made in all industries)	Made in this industry	Made in other industries	Coverage ratio <sup>2</sup>
		(\$1,000) (A)	(\$1,000) (B)	(\$1,000) (C)	(\$1,000) (D)	Col. B Col. B+C (Percent) (E)	(\$1,000) (F)	(\$1,000) (G)	(\$1,000) (H)	Col. G Col. F (Percent) (I)
2641	Paper coating and glazing....1954.. 1947..	622,192 401,371	525,470 343,336	92,368 51,965	4,354 6,070	85 87	609,588 370,802	525,470 343,336	84,118 27,466	86 92
2651	Envelopes.....1954.. 1947..	195,341 128,346	181,477 114,264	8,239 10,359	5,625 3,723	96 92	197,283 120,692	181,477 114,264	15,806 6,428	92 95
2661	Paper bags.....1954.. 1947..	623,068 319,928	561,055 305,887	58,042 12,870	3,971 1,171	91 96	634,594 356,542	561,055 305,887	73,539 50,655	88 86
2671	Paperboard boxes.....1954.. 1947..	2,179,580 1,474,743	2,070,528 1,419,115	92,866 46,817	16,186 8,811	96 97	2,111,434 1,446,527	2,070,528 1,419,115	40,906 27,412	98 98
2674	Fiber cans, tubes, drums, etc.....1954.. 1947..	146,797 73,812	141,798 70,960	4,292 2,124	707 728	97 97	161,877 76,603	141,798 70,960	20,079 5,643	87 93
2691	Die-cut paper and board.....1954.. 1947..	206,652 97,655	176,170 (NA)	24,316 (NA)	6,166 (NA)	88 (NA)	215,553 107,245	176,170 (NA)	39,383 (NA)	82 (NA)
2693	Wallpaper.....1954.. 1947..	39,668 58,895	38,948 57,763	546 1,132	174 ...	99 98	39,621 57,763	38,948 57,763	673 ...	98 100
2694	Pulp goods, pressed and molded.....1954.. 1947..	42,293 16,191	42,119 15,440	122 751	52 ...	100 95	45,236 17,875	42,119 15,440	3,117 2,435	93 86
2699	Paper and board products, n.e.c.....1954.. 1947..	1,427,622 786,917	1,276,574 669,940	145,394 108,442	5,654 8,535	90 86	1,438,756 780,565	1,276,574 669,940	162,182 110,625	89 86

NA Not available.

<sup>1</sup>The specialization ratio compares the given industry's shipments of its primary products to its total shipments of all products. (The primary products are listed in Tables 5B and 6A; the first 4-digits of the product code represent the industry code to which the product is primary.)

<sup>2</sup>The coverage ratio measures the extent to which the total shipments of products primary to the given industry are shipped by establishments classified in that industry.

## MANUFACTURES—INDUSTRY STATISTICS

Table 5B.—INDUSTRY-PRODUCT ANALYSIS—SHIPMENTS BY PRODUCT CLASS AND INDUSTRY, FOR THE UNITED STATES: 1954

(In thousands of dollars. The first column shows the total value of shipments of the specified industry divided among: (a) products classified in the industry (primary products), (b) products classified in other industries (secondary products) and (c) miscellaneous receipts. The value of shipments of the primary products of the specified industry reported by establishments not classified in that industry is shown under the caption "Other Industries." Industries accounting for significant amounts of the primary products listed are shown in separate columns provided that the figures for individual compares are not thereby disclosed. The last column shows the total value of shipments of the primary products of the industry by all manufacturing industries)

Prod. class code	Paper coating and glazing industry	Paper coating and glazing (S.I.C. 2641)	Paperboard boxes (S.I.C. 2671)	Paper and board products, n.e.c. (S.I.C. 2699)	Other industries	All industries	
	Total shipments and receipts of the industry.....	622,192	xxx	xxx	xxx	xxx	
	Primary products.....	525,470	6,502	31,666	45,950	609,588	
26411	Off-machine coated paper for printing.....	74,929	(1)	(D)	(D)	82,450	
26412	Oiled, waxed, and wax-laminated paper.....	174,919	6,160	22,034	5,650	208,763	
26413	Gummed tape and paper.....	57,313	(1)	4,330	4,670	66,391	
26414	Pressure sensitive tapes, including plastic.....	137,926	(1)	(D)	10,673	148,941	
26415	Coated and processed paper.....	80,383	(D)	4,838	17,562	103,043	
	Secondary products.....	92,368	xxx	xxx	xxx	xxx	
26612	Specialty bags and liners.....	8,234	xxx	xxx	xxx	xxx	
26913	Pasted, lined, laminated, or coated paperboard.....	2,296	xxx	xxx	xxx	xxx	
27510	Commercial printing, letterpress and gravure.....	5,199	xxx	xxx	xxx	xxx	
34970	Metal foil and leaf.....	9,514	xxx	xxx	xxx	xxx	
	Other secondary products.....	267,125	xxx	xxx	xxx	xxx	
	Miscellaneous receipts.....	4,354	xxx	xxx	xxx	xxx	
	Contract and commission work.....	2,471	xxx	xxx	xxx	xxx	
	Scrap and salable refuse.....	1,883	xxx	xxx	xxx	xxx	
Prod. class code	Envelope industry	Envelopes (S.I.C. 2651)	Paper and board products, n.e.c. (S.I.C. 2699)	Other industries	All industries		
	Total shipments and receipts of the industry.....	195,341	xxx	xxx	xxx		
26510	Envelopes, excluding stationery.....	181,477	6,831	3,975	197,283		
	Secondary products.....	8,239	xxx	xxx	xxx		
26991	Stationery, tablets, and related products.....	2,707	xxx	xxx	xxx		
	Other secondary products.....	5,532	xxx	xxx	xxx		
	Miscellaneous receipts.....	5,625	xxx	xxx	xxx		
	Contract and commission work.....	2,836	xxx	xxx	xxx		
	Scrap and salable refuse.....	2,789	xxx	xxx	xxx		
Prod. class code	Paper bag industry	Paper bags (S.I.C. 2661)	Textile bags (S.I.C. 2393)	Paper coating and glazing (S.I.C. 2641)	Paper and board products, n.e.c. (S.I.C. 2699)	Other industries	All industries
	Total shipments and receipts of the industry.....	623,068	xxx	xxx	xxx	xxx	xxx
	Primary products.....	561,055	23,071	8,413	19,512	22,543	634,594
26611	Grocery and variety bags, paper.....	147,329	(D)	(D)	(D)	(D)	159,772
26612	Specialty bags and liners.....	171,035	3,438	8,234	4,722	18,864	206,293
26613	Wardrobe, shopping, and other bags, except textile.....	11,275	(D)	(1)	(D)	823	13,528
26614	Paper shipping sacks and multiwall bags.....	231,416	18,318	...	(D)	(D)	255,001
	Secondary products.....	58,042	xxx	xxx	xxx	xxx	xxx
26412	Oiled, waxed, and wax laminated paper.....	2,182	xxx	xxx	xxx	xxx	xxx
26510	Envelopes, excluding stationery.....	4,723	xxx	xxx	xxx	xxx	xxx
26992	Wrapping products, except coated, oiled, and waxed.....	13,134	xxx	xxx	xxx	xxx	xxx
26996	Other converted paper and paperboard products.....	4,031	xxx	xxx	xxx	xxx	xxx
	Other secondary products.....	33,972	xxx	xxx	xxx	xxx	xxx
	Miscellaneous receipts.....	3,971	xxx	xxx	xxx	xxx	xxx
	Contract and commission work.....	2,270	xxx	xxx	xxx	xxx	xxx
	Scrap and salable refuse.....	1,701	xxx	xxx	xxx	xxx	xxx
Prod. class code	Die-cut paper and board products	Die-cut paper and board (S.I.C. 2691)	Paper and board products, n.e.c. (S.I.C. 2699)	Other industries	All industries		
	Total shipments and receipts of the industry.....	206,652	xxx	xxx	xxx		
	Primary products.....	176,170	17,128	22,255	215,553		
26911	Die-cut office supplies.....	31,508	2,882	2,907	37,297		
26912	Miscellaneous die-cut products.....	110,227	8,898	13,091	132,216		
26913	Pasted lined laminated or coated paperboard.....	34,435	5,348	6,257	46,040		
	Secondary products.....	24,316	xxx	xxx	xxx		
26415	Coated and processed paper.....	3,895	xxx	xxx	xxx		
	Other secondary products.....	420,421	xxx	xxx	xxx		
	Miscellaneous receipts.....	6,166	xxx	xxx	xxx		
	Contract and commission work.....	5,288	xxx	xxx	xxx		
	Scrap and salable refuse.....	703	xxx	xxx	xxx		
	Other.....	175	xxx	xxx	xxx		
Prod. class code	Wallpaper industry	Wallpaper (S.I.C. 2693)	Other industries	All industries			
	Total shipments and receipts of the industry.....	39,668	xxx	xxx			
26930	Wallpaper.....	38,948	673	39,621			
	Secondary products.....	546	xxx	xxx			
	Miscellaneous receipts.....	174	xxx	xxx			

See footnotes at end of table.

CONVERTED PAPER AND BOARD PRODUCTS

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Table 5B.--INDUSTRY-PRODUCT ANALYSIS--SHIPMENTS BY PRODUCT CLASS AND INDUSTRY, FOR THE UNITED STATES: 1954--Continued

Prod. class code	Paperboard box industry	Paperboard boxes (S.I.C. 2671)	Paper and board products, n.e.c. (S.I.C. 2699)	Other industries	All industries		
	Total shipments and receipts of the industry.....	2,179,580	xxx	xxx	xxx		
	Primary products.....	2,070,528	20,190	20,716	2,111,434		
26711	Shipping containers, solid fiber and corrugated.....	1,251,884	807	7,382	1,260,073		
26712	Folding paper and board boxes and cartons.....	599,508	19,170	6,696	625,374		
26713	Set-up paperboard boxes.....	215,825	213	4,252	220,290		
26714	Vulcanized fiber boxes.....	3,311	...	2,386	5,697		
	Secondary products.....	92,866	xxx	xxx	xxx		
26412	Oiled, waxed, and wax laminated paper.....	6,160	xxx	xxx	xxx		
26741	Paperboard cans, tubes, and drums.....	3,574	xxx	xxx	xxx		
26912	Miscellaneous die-cut products.....	4,700	xxx	xxx	xxx		
26913	Pasted, lined, laminated, or coated paperboard.....	2,359	xxx	xxx	xxx		
26991	Stationery, tablets, and related products.....	2,025	xxx	xxx	xxx		
26992	Wrapping products, except coated, oiled, and waxed.....	5,574	xxx	xxx	xxx		
26993	Sanitary food containers.....	22,212	xxx	xxx	xxx		
26996	Other converted paper and paperboard products.....	23,633	xxx	xxx	xxx		
27510	Commercial printing, letterpress and gravure.....	5,028	xxx	xxx	xxx		
	Other secondary products.....	17,601	xxx	xxx	xxx		
	Miscellaneous receipts.....	16,186	xxx	xxx	xxx		
	Contract and commission work.....	2,348	xxx	xxx	xxx		
	Scrap and salable refuse.....	13,489	xxx	xxx	xxx		
	Other.....	349	xxx	xxx	xxx		
Prod. class code	Fiber cans, tubes, drums, etc., industry	Fiber cans, tubes, drums, etc. (S.I.C. 2674)	Plastics products, n.e.c. (S.I.C. 3971)	Other industries	All industries		
	Total shipments and receipts of the industry.....	146,797	xxx	xxx	xxx		
	Primary products.....	141,798	7,390	12,689	161,877		
26741	Paperboard cans, tubes, and drums.....	129,012	...	8,303	137,315		
26742	Paperboard cones, reels, spools, bobbins.....	10,373	...	1,007	11,380		
26743	Vulcanized fiber products, except boxes.....	2,413	7,390	3,779	13,182		
	Secondary products.....	4,292	xxx	xxx	xxx		
	Miscellaneous receipts.....	707	xxx	xxx	xxx		
Prod. class code	Pulp goods, pressed and molded industry	Pulp goods, pressed and molded (S.I.C. 2694)	Other industries	All industries			
	Total shipments and receipts of the industry.....	42,293	xxx	xxx			
26940	Pulp goods, pressed and molded.....	42,119	3,117	45,236			
	Secondary products and miscellaneous receipts.....	174	xxx	xxx			
Prod. class code	Paper and board products, n.e.c., industry	Paper and board products, n.e.c. (S.I.C. 2699)	Paper coating and glazing (S.I.C. 2641)	Paper bags (S.I.C. 2661)	Paperboard boxes (S.I.C. 2671)	Other industries	All industries
	Total shipments and receipts of the industry.....	1,427,622	xxx	xxx	xxx	xxx	xxx
	Primary products.....	1,276,574	19,117	19,175	54,686	68,203	1,437,755
26991	Stationery, tablets, and related products.....	92,433	(D)	(D)	2,025	9,919	106,503
26992	Wrapping products, except coated, oiled, and waxed.....	72,503	4,068	1,313	5,574	11,527	106,806
26993	Sanitary food containers.....	413,493	(D)	...	22,212	(D)	440,351
26994	Sanitary tissue health products.....	412,781	2,259	(1)	(D)	(D)	427,407
26995	Food serving paper products.....	46,811	(D)	(1)	(D)	283	47,906
26996	Other converted paper and paperboard products.....	238,553	11,170	4,031	23,633	31,395	308,782
	Secondary products.....	145,394	xxx	xxx	xxx	xxx	xxx
26412	Oiled, waxed, and wax-laminated paper.....	22,034	xxx	xxx	xxx	xxx	xxx
26413	Gummed tape and paper.....	4,330	xxx	xxx	xxx	xxx	xxx
26415	Coated and processed paper.....	4,838	xxx	xxx	xxx	xxx	xxx
26510	Envelopes, excluding stationery.....	6,831	xxx	xxx	xxx	xxx	xxx
26612	Specialty bags and liners.....	4,722	xxx	xxx	xxx	xxx	xxx
26712	Folding paperboard boxes and cartons.....	19,170	xxx	xxx	xxx	xxx	xxx
26911	Die-cut office supplies.....	2,882	xxx	xxx	xxx	xxx	xxx
26912	Miscellaneous die-cut products.....	8,898	xxx	xxx	xxx	xxx	xxx
26913	Pasted, lined, laminated, or coated paper board.....	5,348	xxx	xxx	xxx	xxx	xxx
	Other secondary products.....	566,341	xxx	xxx	xxx	xxx	xxx
	Miscellaneous receipts.....	5,654	xxx	xxx	xxx	xxx	xxx
	Contract and commission work.....	2,437	xxx	xxx	xxx	xxx	xxx
	Scrap and salable refuse.....	2,953	xxx	xxx	xxx	xxx	xxx
	Other.....	264	xxx	xxx	xxx	xxx	xxx

xxx Not applicable.

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>Less than \$100 thousand.

<sup>2</sup>Of this figure, 66 percent consisted of the following product classes: 26994, Sanitary tissue health products; 30995, Other rubber products; 32911, Nonmetallic abrasives; and 36616, which includes recording tape.

<sup>3</sup>Of this figure, 76 percent consisted of the following product classes: 26413, Gummed tape and paper; 22992, Textile goods, n.e.c.; 23930, Textile bags, except laundry and wardrobe bags; 27610, Lithographing; and 34970, Metal foil and leaf.

<sup>4</sup>Of this figure, 25 percent consists of the following product classes: 26412, Oiled, waxed, and wax-laminated paper; and 27510, Commercial printing, letterpress, and gravure.

<sup>5</sup>Of this figure, 85 percent consisted of the following product classes: 26611, Grocery and variety bags, paper; 26614, Paper shipping sacks and multiwall bags; 26940, Pulp goods, pressed or molded; 38421, Sanitary napkins and tampons; and 39933, Advertising novelties.



## MANUFACTURES—INDUSTRY STATISTICS

Table 6A.—QUANTITY AND VALUE OF PRODUCTS SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, FOR THE UNITED STATES: 1954 AND 1947

Product code	Product	1954					1947			
		Value of shipments including interplant transfers <sup>1</sup>		Consumption of paper and paperboard <sup>2</sup> (tons of 2,000 lbs.)			Value of shipments including interplant transfers	Consumption of paper and paperboard (tons of 2,000 lbs.)		
		Quantity	Value	Total	Produced by own company	Purchased		Total	Produced by own company	Purchased
		(Short tons)	(\$1,000)				(\$1,000)			
2641---	Paper coating and glazing, total.....	xxx	609,588	xxx	xxx	xxx	370,802	823,583	447,266	376,317
26411	Off machine coated paper for printing...	258,664	82,450	231,745	191,052	40,693	89,428	290,935	245,472	45,463
2641111	Coated, one side.....	145,353	46,077	132,545	110,780	21,765	39,710	139,066	114,979	24,087
2641151	Coated, two sides.....	113,311	36,373	99,200	80,272	18,928	49,718	151,869	130,493	21,376
26412	Oiled, waxed, and wax laminated paper...	xxx	208,763	366,808	178,856	187,952	141,895	352,636	162,183	190,453
2641211	Oiled and similarly treated paper....	15,629	6,008	13,259	3,978	9,281	6,912	22,687	11,403	11,284
		(Million wrappers)								
2641221	Bread wraps (printed).....	8,998	53,986	76,311	21,981	54,330	47,484	94,712	36,571	58,141
2641225	Bread wraps (unprinted).....	1,792	9,406	14,935	4,080	10,855	10,215	24,715	5,193	19,522
2641231	Household waxed paper.....	xxx	53,330	102,960	59,826	43,134	26,558	71,713	24,438	47,275
2641241	Delicatessen paper.....	xxx	9,455	22,056	14,575	7,481	6,318	19,743	15,958	3,785
2641251	Looker papers.....	xxx	7,758	16,964	11,874	5,090	4,219	11,777	5,815	5,962
2641261	Cereal and similar wraps.....	xxx	14,437	21,880	13,433	8,447	4,605	12,191	5,323	6,868
2641271	Other waxed and wax laminated paper.	xxx	54,383	98,443	49,109	49,334	35,584	95,098	57,482	37,616
26413	Gummed products.....	xxx	66,391	111,761	40,541	71,220	265,853	115,621	29,383	86,238
2641311	Paper base gummed tape.....	xxx	45,661	97,136	40,541	56,595	245,651	97,191	28,709	68,482
2641315	Cloth base gummed tape.....	xxx	5,841	xxx	xxx	xxx	211,102	3,115	xxx	3,115
2641321	Gummed paper.....	xxx	14,889	14,625	...	14,625	9,100	15,315	674	14,641
26414	Pressure sensitive tape.....	xxx	148,941	xxx	xxx	xxx	...	...	...	...
2641411	Paper backing.....	xxx	50,861	(NA)	(NA)	(NA)	(D)	(NA)	(NA)	(NA)
2641431	Cloth backing.....	xxx	10,289	xxx	xxx	xxx				
2641451	Elastic backing.....	xxx	84,754	xxx	xxx	xxx				
2641471	Other pressure sensitive tape.....	xxx	3,037	(NA)	(NA)	(NA)				
26415	Coated and processed paper.....	xxx	103,043	135,534	65,276	70,258	(D)	64,391	10,228	54,163
2641511	Waxed and similarly coated paper....	xxx	24,727	62,576	(D)	(D)	7,007	14,292	...	14,292
2641531	Special coated paper.....	xxx	32,406	30,527	5,835	24,692	(D)	16,516	1,828	14,688
2641551	Processed plain paper.....	xxx	6,739	13,245	9,365	3,880	3,657	9,788	1,385	8,403
2641571	Processed coated paper.....	xxx	4,664	6,862	(D)	(D)	9,501	15,947	...	15,947
2641598	Other coated and processed paper.....	xxx	34,507	22,324	10,473	11,851	7,205	7,848	7,015	833
2651011	Envelopes (all types and materials, except stationary envelopes).....	xxx	197,283	332,426	21,050	311,376	120,692	255,832	15,863	239,969
2661---	Paper bags, total.....	xxx	634,594	xxx	xxx	xxx	356,542	xxx	xxx	xxx
2661111	Grocers and variety bags, paper.....	xxx	159,772	815,571	569,241	246,330	92,210	501,254	400,588	100,666
26612	Specialty bags and liners.....	xxx	206,293	xxx	xxx	xxx	92,055	131,450	44,968	86,482
2661211	Paper.....	xxx	49,542	133,521	60,041	73,480	31,423	91,060	43,294	47,766
2661231	Glassine, greaseproof, and waxed paper	xxx	32,076	47,113	5,873	41,240	21,875	38,128	1,595	36,533
2661251	Foil or foil backed paper.....	xxx	6,156	6,974	...	6,974	1,971	1,548	xxx	1,548
2661261	Cellophane.....	xxx	77,152	xxx	xxx	xxx	36,786	714	79	635
2661271	Polyethylene.....	xxx								
2661298	Other flexible plastic films, combinations and specialty bags	xxx								
2661200	and liners, not specified by kind.....	xxx	41,857	xxx	xxx	xxx				
26613	Wardrobe, shopping, and other bags.....	xxx	13,528	46,350	6,938	39,412	19,068	43,424	4,656	38,768
2661311	Wardrobe and mothproof bags.....	xxx	2,311	12,904	(D)	(D)	2,892	8,128	843	7,285
2661351	Shopping bags.....	xxx	5,000	15,161	3,228	11,933	4,981	14,743	1,605	13,138
2661398	Other bags.....	xxx	6,217	18,285	(D)	(D)	11,195	20,553	2,208	18,345
26614	Shipping sacks and multiwall bags.....	xxx	255,001	848,616	449,814	398,802	153,209	591,521	297,799	293,722
2661411	Single and double wall.....	xxx	62,905	186,216	103,483	82,733	37,598	132,717	32,732	99,985
2661451	Multiwall (three or more ply).....	xxx	192,096	662,400	346,331	316,069	115,611	458,804	265,067	193,737
2671---	Paperboard boxes, total.....	xxx	2,111,434	xxx	xxx	xxx	1,446,527	7,074,759	2,952,190	4,122,569
26711	Shipping containers.....	xxx	1,260,073	6,235,592	2,601,198	3,634,394	835,194	4,632,730	1,967,239	2,665,491
2671111	Corrugated.....	xxx	1,214,587	6,012,806	2,430,757	3,582,049	770,410	4,262,928	1,703,555	2,559,373
2671151	Solid fiber.....	xxx	45,486	222,786	170,441	52,345	64,784	369,802	263,684	106,118
2671211	Folding boxes and cartons.....	xxx	625,374	2,186,622	1,096,689	1,089,933	440,755	1,874,078	496,987	4905,091
2671311	Set-up boxes.....	xxx	220,290	497,684	35,368	462,316	210,578	567,951	15,964	551,987
2671411	Vulcanized fiber boxes.....	xxx	5,697	xxx	xxx	xxx	(NA)	xxx	xxx	xxx

See footnotes at end of table.

CONVERTED PAPER AND BOARD PRODUCTS

26B-17

Table 6A.--QUANTITY AND VALUE OF PRODUCTS SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, FOR THE UNITED STATES: 1954 AND 1947--Continued

Product code	Product	1954					1947			
		Value of shipments including interplant transfers <sup>1</sup>		Consumption of paper and paperboard <sup>2</sup> (tons of 2,000 lbs.)			Value of shipments including interplant transfers	Consumption of paper and paperboard (tons of 2,000 lbs.)		
		Quantity	Value	Total	Produced by own company	Purchased		Total	Produced by own company	Purchased
2674---	Fiber cans, tubes, drums, etc., total.....	xxx	(\$1,000) 161,877	xxx	xxx	xxx	(\$1,000) 76,603	xxx	xxx	xxx
26741	Paperboard cans, tubes, and drums.....	xxx	137,315	333,478	86,134	247,344	61,740	207,033	73,654	134,269
2674111	Cans.....	xxx	57,789	102,516	1,132	101,384	32,509	83,722	28,069	55,653
2674131	Corres and tubes.....	xxx	38,518	139,161	57,276	81,885	18,014	81,434	36,093	45,341
2674151	Drums.....	xxx	41,008	91,801	27,726	64,075	11,217	42,767	9,492	33,275
2674211	Paperboard cones, reels, spools, bobbins, etc.....	xxx	11,380	33,194	23,298	9,896	9,716	36,530	25,960	10,570
26743	Vulcanized fiber products.....	xxx	13,182	xxx	xxx	xxx	5,147	189	...	189
2674311	Cans, tubes, and drums.....	xxx	2,906	xxx	xxx	xxx	709	89	...	89
2674351	Other products, except boxes.....	xxx	10,276	xxx	xxx	xxx	4,438	100	...	100
2691---	Die-cut or laminated paper and board, total.....	xxx	215,553	527,918	136,968	390,950	107,245	309,276	83,168	226,108
26911	Die-cut office supplies.....	xxx	37,297	54,229	...	54,229	31,215	51,484	...	51,484
2691111	Index cards.....	xxx	6,777	9,960	...	9,960	9,222	12,185	...	12,185
2691121	File folders.....	xxx	17,031	27,920	...	27,920	10,997	21,027	...	21,027
2691131	Guide cards.....	xxx	5,299	7,204	...	7,204	4,540	7,261	...	7,261
2691151	Binders and covers, except loose leaf.	xxx	4,357	3,888	...	3,888	3,627	6,614	...	6,614
2691190	Other filing accessories.....	xxx	3,833	5,257	...	5,257	2,829	4,397	...	4,397
26912	Miscellaneous die-cut products.....	xxx	132,216	286,446	28,803	257,643	59,048	159,253	29,947	129,306
2691211	Cards, die-cut and designed, including machine tabulation and time recorder cards.....	xxx	61,694	116,492	...	116,492	20,570	45,794	234	45,560
2691251	Fillers and flats for egg cases.....	xxx	2,659	20,510	(D)	(D)	2,765	21,452	16,684	4,768
2691271	Bottle caps, closures and lids.....	(Million) 8,633	21,366	33,975	(D)	(D)	20,136	51,440	5,784	45,656
2691298	Other miscellaneous die-cut products..	xxx	46,497	115,469	8,159	107,310	15,577	40,567	7,245	33,322
26913	Pasted, lined, laminated, or surface-coated paperboard.....	xxx	46,040	187,243	108,164	79,079	16,982	98,539	53,221	45,318
2693---	Wallpaper, total.....	xxx	39,621	xxx	xxx	xxx	57,763	127,566	10,196	117,370
2693011	Machine printed <sup>5</sup> .....	(Thousand single rolls or equiv.) 163,582	35,093	55,920	11,374	44,546	57,763	127,566	10,196	117,370
2693051	Screen and hand printed.....	(Single roll equiv.) 1,212,608	4,528	xxx	xxx	xxx				
2694	Pulp goods, pressed and molded, total.....	xxx	45,236	xxx	xxx	xxx	17,875	2,148	...	2,148
2694011	Containers.....	xxx	9,149	xxx	xxx	xxx	(D)	(NA)	...	(NA)
2694021	Plates, dishes, and similar products....	xxx	13,691	xxx	xxx	xxx	8,465	109	...	109
2694041	Conduits and pipes.....	xxx	17,891	xxx	xxx	xxx	6,531	1,501	...	1,501
2694098	Other pulp goods, excluding statuary and art goods.....	xxx	4,505	xxx	xxx	xxx	(D)	538	...	538
2699	Paper and board products, n.e.c., total...	xxx	1,438,756	3,408,871	1,832,734	1,576,137	780,565	2,155,044	1,096,460	1,059,584
26991	Stationery, tablets, and related products.....	xxx	106,503	194,671	5,255	189,416	64,664	161,287	12,625	148,662
2699111	Stationery:									
2699113	Boxed stationery and port folios....	xxx	20,920	19,924	1,399	18,525	18,544	25,566	2,551	23,015
2699115	Wedding and social announcements....	xxx	5,067	5,232	(D)	(D)	2,435	5,399	267	5,132
2699115	Package paper and envelopes.....	xxx	10,838	17,767	586	17,181	5,972	10,775	...	10,775
2699119	Other stationery.....	xxx	2,353	3,714	(D)	(D)	3,200	10,268	8,990	1,278
2699151	Tablets and related tablet type products:									
2699153	Correspondence type tablets.....	xxx	5,733	11,239	(D)	(D)	3,285	8,454	...	8,454
2699155	Tablets and pads, book and writing.....	xxx	13,212	29,360	(D)	(D)	6,982	20,424	101	20,323
2699157	Newsprint tablets and pads.....	xxx	5,499	19,571	...	19,571	3,142	16,316	...	16,316
2699158	Notebooks.....	xxx	13,360	26,540	(D)	(D)	6,516	17,566	40	17,526
2699159	Loose-leaf fillers and wrapped ream papers in filler sizes excluding printed forms.....	xxx	26,474	54,029	(D)	(D)	13,402	42,462	369	42,093
2699159	Other related tablet type products..	xxx	3,047	7,295	(D)	(D)	1,186	4,057	307	3,750

See footnotes at end of table.

## MANUFACTURES--INDUSTRY STATISTICS

Table 6A.--QUANTITY AND VALUE OF PRODUCTS SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, FOR THE UNITED STATES: 1954 AND 1947--Continued

Product code	Product	1954					1947			
		Value of shipments including interplant transfers <sup>1</sup>		Consumption of paper and paperboard <sup>1</sup> (tons of 2,000 lbs.)			Value of shipments including interplant transfers	Consumption of paper and paperboard (tons of 2,000 lbs.)		
		Quantity	Value	Total	Produced by own company	Purchased		Total	Produced by own company	Purchased
2699----	Paper and board products, n.e.c.-- Continued									
26992	Wrapping products, except coated, oiled, and waxed.....	xxx	(\$1,000) 106,806	238,401	88,066	150,335	(\$1,000) 62,877	167,766	60,429	107,337
2699211	Laminated wrapping products: Waterproof (plain, reinforced, creped, and lined).....	xxx	30,112	75,280	18,694	56,586	28,922	83,804	26,707	57,097
2699231	Paper laminated to other sheet materials.....	xxx	2,933	2,336	(D)	(D)	1,389	1,669	658	1,011
2699241	Moisture proof and vapor barrier paper.....	xxx	13,885	44,619	32,334	12,285	(NA)	(NA)	(NA)	(NA)
2699251	Other laminated paper wrapping products.....	xxx	6,823	16,696	5,567	11,129	12,701	38,208	20,235	17,973
2699261	Crepe paper.....	xxx	5,465	12,716	(D)	(D)	2,744	8,314	663	7,651
2699271	Impregnated and saturated wrapping paper.....	xxx	3,663	7,642	(D)	(D)	2,054	7,303	3,074	4,229
	Gift wrapping, first sale in packages: Printed:									
2699281	17 lbs. and less.....	xxx	9,793	11,659	(D)	(D)	4,380	5,933	44	5,889
2699285	18 lbs. and more.....	xxx	14,370	19,958	9,096	10,862	5,870	9,051	847	8,204
2699287	Unprinted.....	xxx	2,500	3,233	(D)	(D)	3,957	11,988	8,201	3,787
2699298	Other wrapping products.....	xxx	17,262	44,262	18,348	25,914	(NA)	(NA)	(NA)	(NA)
26993	Sanitary food containers.....	xxx	440,351	931,018	399,107	531,911	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
2699311	Milk cartons.....	}	147,527	397,721	186,260	211,461	34,846	106,362	53,177	53,185
2699321	Other beverage cartons.....									
2699331	Cups and liquid-tight food containers.....		172,243	246,061	18,831	227,230	73,490	152,944	21,372	131,572
2699341	Frozen food containers.....		24,130	54,069	28,625	25,444				
2699351	Butter, oleo, shortening, and ice cream cartons.....	xxx	66,388	157,367	118,658	38,709	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
2699361	Food and ice cream pails.....	xxx	5,313	10,420	7,104	3,316	23,833	75,862	65,451	10,411
2699398	Other sanitary food containers.....	xxx	24,750	65,380	39,629	25,751	( <sup>4</sup> )	(NA)	(NA)	(NA)
26994	Sanitary health products.....	xxx	427,407	1,298,808	1,140,233	158,575	220,046	788,376	688,723	99,653
2699411	Facial tissues and handkerchiefs.....	xxx	79,861	179,029	166,504	12,525	51,008	130,716	119,622	11,094
	Table napkins (plain, creped, and facial tissue):									
	Industrial (bulk and dispenser types):									
2699431	Regular type - single ply.....	xxx	24,198	67,736	52,564	15,172	} 18,545	54,435	38,794	15,641
2699433	Facial tissue type - 2 or more ply	xxx	5,081	9,378	4,000	5,378				
	Retail packages (resale):									
2699435	Regular type - single ply.....	xxx	27,423	67,224	59,852	7,372	} 18,789	48,514	30,124	18,390
2699437	Facial tissue type - 2 or more ply	xxx	12,280	26,138	24,772	1,366				
	Toilet paper:									
	Rolls and ovals:									
2699451	Facial tissue type - 2 or more ply	xxx	62,155	167,986	132,354	35,632	13,935	34,503	28,974	5,529
2699453	Toilet tissue.....	xxx	120,810	431,464	396,450	35,014	69,378	303,770	284,426	19,344
2699455	Interfolded and flat package.....	xxx	6,753	22,879	20,603	2,276	6,047	24,379	21,199	3,180
	Towels (rolled, folded, or interfolded):									
2699471	Industrial.....	xxx	49,901	207,921	178,741	29,180	27,804	134,320	119,494	14,826
2699475	Household.....	xxx	30,839	105,442	99,662	5,780	10,964	48,845	43,851	4,994
2699498	Other sanitary health products.....	xxx	8,106	13,611	4,731	8,880	3,576	8,894	2,239	6,655
26995	Food serving paper products.....	xxx	47,906	91,159	39,940	51,219	27,971	56,669	14,106	42,563
2699511	Stamped plates, dishes, spoons, forks, etc.....	xxx	20,293	54,846	28,149	26,697	9,631	29,716	13,124	16,592
2699531	Soda straws, except glass.....	xxx	6,845	4,330	...	4,330	5,530	5,239	...	5,239
2699551	Doilies, place mats and tray doilies...	xxx	7,443	9,398	976	8,422	6,481	11,566	741	10,825
2699598	Other food serving paper products.....	xxx	13,325	22,585	10,815	11,770	6,329	10,148	241	9,907
26996	Other converted paper and board products	xxx	308,782	654,814	160,133	494,681	252,250	594,442	160,520	433,922
	Business machine supplies:									
2699611	Rolls for adding and other business machines.....	xxx	10,375	21,026	(D)	(D)	5,653	11,278	180	11,098
2699615	Tapes (teletypes etc.).....	xxx	4,665	11,889	(D)	(D)	1,724	5,291	...	5,291
2699619	Other business machine supplies.....	xxx	985	2,398	...	2,398	538	802	...	802
2699621	Safety paper.....	}	7,599	16,634	(D)	(D)	4,955	13,792	...	13,792
2699625	Other miscellaneous office supplies.						584	1,007	788	219

See footnotes at end of table.

CONVERTED PAPER AND BOARD PRODUCTS

26B-19

Table 6A.--QUANTITY AND VALUE OF PRODUCTS SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, FOR THE UNITED STATES: 1954 AND 1947--Continued

Product code	Product	1954					1947			
		Value of shipments including interplant transfers <sup>1</sup>		Consumption of paper and paperboard <sup>1</sup> (tons of 2,000 lbs.)			Value of shipments including interplant transfers	Consumption of paper and paperboard (tons of 2,000 lbs.)		
		Quantity	Value	Total	Produced by own company	Purchased		Total	Produced by own company	Purchased
2699---	Paper and board products, n.e.c.--									
	Continued									
26996	Other converted paper and board products--Continued									
	Packaging accessories:									
2699633	Tags, printed and unprinted.....	xxx	35,817	31,696	(D)	(D)	20,634	26,159	...	26,159
2699635	Labels and seals.....	xxx	32,319	34,382	(D)	(D)	10,171	15,786	61	15,725
2699637	Corrugated paperboard in sheets and rolls, lined and unlined.....	xxx	27,840	185,600	57,334	128,266	17,591	102,945	17,983	84,962
2699638	Paperboard pallets.....	xxx	1,248	4,449	1,300	3,149	(NA)	(NA)	(NA)	(NA)
2699639	Other packaging accessories.....	xxx	9,401	41,582	19,617	21,965	(NA)	(NA)	(NA)	(NA)
	Novelties, games, and similar products:									
2699651	Playing cards.....	xxx	20,704	11,968	...	11,968	15,514	9,768	...	9,768
2699655	Fine creped paper.....	xxx	6,280	4,547	270	4,277	5,654	10,190	597	9,593
2699659	Other.....	xxx	15,798	20,254	(D)	(D)	6510	61,050	(6)	61,050
	(1,000 sq. ft.)									
2699661	Industrial paper products:									
	Laminated wallboard.....	123,101	7,805	45,042	38,451	6,591	12,111	83,819	41,117	42,702
2699665	Tiled wallboard.....	34,652	6,745	14,186	...	14,186	(NA)	(NA)	(NA)	(NA)
2699669	Other industrial paper products.....	xxx	55,560	120,783	28,095	92,688	(NA)	(NA)	(NA)	(NA)
	Miscellaneous paper products:									
2699673	Folders and mounts, all types.....	xxx	6,566	6,225	601	5,624	8,413	14,978	...	14,978
2699675	Paper draperies.....	xxx	...	...	...	...	75,666	75,577	(7)	75,577
2699677	Patterns.....	xxx	28,817	13,039	(D)	(D)	24,286	8,589	3,652	4,937
2699679	Shelfpaper, printed and unprinted...	xxx	3,672	5,814	(D)	(D)	2,881	5,210	424	4,786
2699681	Other miscellaneous paper products..	xxx	26,586	63,300	5,134	58,166	(NA)	(NA)	(NA)	(NA)

xxx Not applicable.

D Withheld to avoid disclosing figures for individual companies.

NA Not available.

<sup>1</sup>Establishments engaged in the manufacture of paper and paperboard products for their own consumption in the manufacture (e.g. packaging) of other products at the same location, were not requested to report the value of such products nor the consumption of paper and paperboard in their manufacture. Set-up paperboard boxes and paper bags are two of the more important products whose value and the quantity of paper and paperboard consumed are understated because of this factor.

<sup>2</sup>Unknown amount of pressure sensitive tape (code 26414) reported as gummed products (code 26415).

<sup>3</sup>Includes coated cellophane.

<sup>4</sup>Data not comparable because an unknown amount of butter, oleo, frozen food containers (codes 2699341 and 2699351) are included with folding boxes and cartons (code 2671211).

<sup>5</sup>Includes an unknown quantity and value of "screen grounds" which are ultimately used as a raw material by manufacturers of screen and handprinted wallpaper.

<sup>6</sup>Excludes an unknown amount of decorated and undecorated novelties.

<sup>7</sup>Includes unknown amounts of shade paper, blinds, and window decorations.



## MANUFACTURES--INDUSTRY STATISTICS

Table 6B.--VALUE OF PRODUCT CLASSES SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, BY DIVISIONS AND STATES FOR 1954, AND UNITED STATES TOTALS FOR EARLIER YEARS

(In thousands of dollars. Statistics are shown for selected product classes which are economically significant and production of which is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (Table 2) and they are not miscellaneous or "not specified by type" classes. For each product class, States are listed only if the value of shipments is more than \$1 million and the figure does not disclose individual company information. Additional States which had shipments of more than \$1 million of the individual product classes are listed in footnote 1)

Product class, region, and State <sup>1</sup>	Value of shipments	Product class, region, and State <sup>1</sup>	Value of shipments	Product class, region, and State <sup>1</sup>	Value of shipments
<u>Off-machine coated paper for printing (26411)</u>		<u>Coated and processed paper (26415)</u>		<u>Specialty bags and liners (26612)--</u>	
1954 United States, total.....	82,450	1954 United States, total.....	103,043	Continued.....	
1953 United States, total.....	104,833	1953 United States, total.....	111,502	South Atlantic.....	19,020
1952 United States, total.....	86,855	1952 United States, total.....	103,627	Maryland.....	3,455
1951 United States, total.....	99,536	1951 United States, total.....	119,093	Virginia.....	2,585
1950 United States, total.....	85,672	1950 United States, total.....	57,414	North Carolina.....	2,243
1947 United States, total.....	89,428	1954.....		East South Central.....	2,576
1954.....		New England.....	30,617	West South Central.....	4,757
New England.....	18,364	Massachusetts.....	24,438	Texas.....	4,144
Middle Atlantic.....	10,791	Middle Atlantic.....	22,035	West.....	26,489
North Central.....	52,790	New York.....	10,246	Washington.....	3,346
Michigan.....	22,302	New Jersey.....	5,330	California.....	22,252
<u>Oiled, waxed, and wax laminated paper (26412)</u>		Pennsylvania.....	6,459		
1954 United States, total.....	208,763	North Central.....	45,730		
1953 United States, total.....	199,905	Michigan.....	14,999	<u>Paper shipping sacks and multiwall bags (26614)</u>	
1952 United States, total.....	196,757	Wisconsin.....	13,095	1954 United States, total.....	255,001
1951 United States, total.....	221,487	Pacific.....	3,581	1953 United States, total.....	242,155
1950 United States, total.....	179,660	California.....	3,581	1952 United States, total.....	224,011
1947 United States, total.....	141,895	Grocery and variety bags, paper (26611)		1951 United States, total.....	251,303
1954.....		1954 United States, total.....	159,772	1950 United States, total.....	188,226
New England.....	10,976	1947 United States, total.....	92,210	1947 United States, total.....	153,209
Middle Atlantic.....	45,212	1954.....		1954.....	
New York.....	8,508	Northeast.....	19,689	New England.....	8,861
New Jersey.....	30,219	New York.....	11,162	Middle Atlantic.....	23,727
Pennsylvania.....	6,485	North Central.....	5,908	New York.....	7,895
East North Central.....	101,650	South Atlantic.....	40,740	New Jersey.....	1,312
Ohio.....	26,868	Florida.....	17,641	Pennsylvania.....	14,520
Michigan.....	25,099	East South Central.....	33,421	East North Central.....	31,676
Wisconsin.....	33,530	West South Central.....	39,872	Ohio.....	17,544
West North Central.....	11,465	Louisiana.....	34,183	West North Central.....	13,907
South Atlantic.....	7,776	Texas.....	5,625	Missouri.....	7,678
Pacific.....	22,490	Pacific.....	20,141	South Atlantic.....	89,756
<u>Gummed tape and paper (26413)</u>		<u>Specialty bags and liners (26612)</u>		Virginia.....	17,507
1954 United States, total.....	66,391	1954 United States, total.....	206,293	Georgia.....	29,706
1947 United States, total.....	265,853	1951 United States, total.....	118,804	East South Central.....	13,336
1954.....		1950 United States, total.....	92,755	Tennessee.....	3,210
New England.....	20,708	1947 United States, total.....	92,055	West South Central.....	40,042
Massachusetts.....	6,968	1954.....		Arkansas.....	22,980
Middle Atlantic.....	13,317	New England.....	7,917	Louisiana.....	12,547
New York.....	7,258	Massachusetts.....	6,365	Texas.....	4,515
East North Central.....	23,586	Middle Atlantic.....	70,708	West.....	33,688
Ohio.....	10,284	New York.....	40,470	Washington.....	12,644
Illinois.....	7,402	New Jersey.....	15,847	California.....	20,630
South Atlantic.....	3,780	Pennsylvania.....	14,391	<u>Shipping containers, solid fiber and corrugated (26711)</u>	
Pacific.....	4,199	East North Central.....	51,399	1954 United States, total.....	1,260,073
<u>Pressure sensitive tapes, including plastic (26414)</u>		Ohio.....	13,319	1953 United States, total.....	1,180,963
1954 United States, total.....	142,941	Illinois.....	16,181	1952 United States, total.....	1,068,745
1953 United States, total.....	125,751	Wisconsin.....	13,941	1951 United States, total.....	1,160,362
1952 United States, total.....	110,599	West North Central.....	23,389	1950 United States, total.....	926,927
1954.....		Missouri.....	11,789	1947 United States, total.....	835,194
Middle Atlantic.....	54,836			1954.....	
North Central.....	92,163			New England.....	70,388
Ohio.....	2,995			Massachusetts.....	56,742
Illinois.....	15,611				

See footnotes at end of table.

CONVERTED PAPER AND BOARD PRODUCTS

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Table 6B.--VALUE OF PRODUCT CLASSES SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, BY DIVISIONS AND STATES FOR 1954, AND UNITED STATES TOTALS FOR EARLIER YEARS--Continued

Product class, region, and State <sup>1</sup>	Value of shipments	Product class, region, and State <sup>1</sup>	Value of shipments	Product class, region, and State <sup>1</sup>	Value of shipments
<u>Shipping containers, solid fiber and corrugated (26711)--Continued</u>		<u>Folding paperboard boxes and cartons (26712)--Continued</u>		<u>Paperboard cans, tubes, and drums (26741)--Continued</u>	
Middle Atlantic.....	327,265	South Atlantic.....	51,693	Middle Atlantic.....	45,744
New York.....	117,903	Maryland.....	25,549	New York.....	10,005
New Jersey.....	104,002	Virginia.....	1,821	New Jersey.....	16,077
Pennsylvania.....	105,360	North Carolina.....	8,764	Pennsylvania.....	19,662
East North Central.....	426,014	East South Central.....	10,408	East North Central.....	39,223
Ohio.....	118,731	Tennessee.....	7,323	Ohio.....	17,940
Indiana.....	59,042	West South Central.....	17,315	Indiana.....	1,108
Illinois.....	122,222	Louisiana.....	2,631	Illinois.....	12,209
Michigan.....	65,439	Texas.....	13,919	Michigan.....	2,109
Wisconsin.....	60,580	Mountain.....	1,782	Wisconsin.....	5,855
West North Central.....	78,162	Pacific.....	4,584	West North Central.....	16,745
Minnesota.....	17,230	Washington.....	2,454	Missouri.....	15,474
Missouri.....	26,222	Oregon.....	2,175	South.....	20,226
Kansas.....	16,499	California.....	41,214	South Atlantic.....	11,667
South.....	224,166	<u>Set-up paperboard boxes (26713)</u>		West.....	6,199
South Atlantic.....	122,622	1954 United States, total.....	220,290	California.....	4,233
Maryland.....	20,822	1953 United States, total.....	233,721	<u>Miscellaneous die-cut products (26912)</u>	
Virginia.....	12,619	1952 United States, total.....	224,086	1954 United States, total.....	132,216
West Virginia.....	10,646	1951 United States, total.....	226,814	1947 United States, total.....	59,048
North Carolina.....	18,261	1950 United States, total.....	199,760	1954	
South Carolina.....	8,583	1947 United States, total.....	210,578	New England.....	4,074
Georgia.....	32,252			Massachusetts.....	3,677
Florida.....	19,437	1954	34,801	Middle Atlantic.....	51,566
East South Central.....	29,362	New England.....	25,157	New York.....	46,640
Tennessee.....	15,900	Massachusetts.....	4,098	New Jersey.....	3,309
West South Central.....	72,182	Connecticut.....	4,411	Pennsylvania.....	1,617
Louisiana.....	39,789	Middle Atlantic.....	98,428	East North Central.....	44,620
Texas.....	24,379	New York.....	59,879	Illinois.....	4,912
West.....	134,006	New Jersey.....	13,286	Michigan.....	30,319
Washington.....	26,308	Pennsylvania.....	25,262	Wisconsin.....	2,765
California.....	100,219	East North Central.....	36,348	West North Central.....	5,355
<u>Folding paperboard boxes and cartons (26712)</u>		Ohio.....	7,089	Missouri.....	1,252
1954 United States, total.....	625,374	Indiana.....	3,274	South.....	426,191
1953 United States, total.....	3670,609	Illinois.....	18,197	<u>Stationery, tablets, and related products (26991)</u>	
1952 United States, total.....	3626,153	Michigan.....	3,361	1954 United States, total.....	106,503
1951 United States, total.....	3667,261	Wisconsin.....	4,427	1953 United States, total.....	77,048
1950 United States, total.....	3508,778	West North Central.....	11,606	1952 United States, total.....	78,143
1947 United States, total.....	3400,755	Minnesota.....	2,791	1951 United States, total.....	75,284
1954		Missouri.....	7,477	1950 United States, total.....	72,480
New England.....	79,742	South Atlantic.....	17,746	1947 United States, total.....	64,664
Massachusetts.....	36,358	Maryland.....	1,858	1954	
Connecticut.....	41,873	Virginia.....	2,536	New England.....	20,976
Middle Atlantic.....	160,532	North Carolina.....	6,597	Middle Atlantic.....	27,926
New York.....	84,561	South Carolina.....	1,338	New York.....	10,089
New Jersey.....	33,345	Georgia.....	1,995	New Jersey.....	6,706
Pennsylvania.....	42,626	Florida.....	2,890	Pennsylvania.....	11,131
North Central.....	258,073	East South Central.....	4,582	East North Central.....	20,927
East North Central.....	223,515	Tennessee.....	2,336	Indiana.....	2,969
Ohio.....	65,962	Alabama.....	1,111	Illinois.....	9,556
Indiana.....	18,866	West South Central.....	3,338	Wisconsin.....	2,295
Illinois.....	71,765	Texas.....	2,161	West North Central.....	11,842
Michigan.....	48,357	Mountain.....	1,019	South.....	17,979
Wisconsin.....	18,565	Pacific.....	12,104	South Atlantic.....	10,184
West North Central.....	34,558	California.....	10,923	West.....	6,078
Minnesota.....	14,081	<u>Paperboard cans, tubes, and drums (26741)</u>		California.....	2,011
Missouri.....	18,562	1954 United States, total.....	137,315		
		1947 United States, total.....	61,740		
		1954			
		New England.....	9,151		
		Massachusetts.....	5,524		

See Footnotes at end of table.

## MANUFACTURES—INDUSTRY STATISTICS

Table 6B.—VALUE OF PRODUCT CLASSES SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, BY DIVISIONS AND STATES FOR 1954, AND UNITED STATES TOTALS FOR EARLIER YEARS--Continued

Product class, region, and State <sup>1</sup>	Value of shipments	Product class, region, and State <sup>1</sup>	Value of shipments	Product class, region, and State <sup>1</sup>	Value of shipments
Wrapping products, except coated, oiled, and waxed (26992)		Sanitary food containers (26993)		Sanitary food containers (26993)--	
1954 United States, total.....	106,806	1954 United States, total.....	440,351	Continued	
1953 United States, total.....	86,208	1953 United States, total.....	<sup>2</sup> 304,100	Pacific.....	58,683
1952 United States, total.....	81,329	1952 United States, total.....	<sup>2</sup> 267,930	California.....	45,413
1951 United States, total.....	26,155	1951 United States, total.....	<sup>2</sup> 255,371		
1947 United States, total.....	62,877	1950 United States, total.....	<sup>2</sup> 231,232		
		1947 United States, total.....	<sup>2</sup> 137,648		
1954		1954		Sanitary tissue health products (26994)	
		Northeast.....	149,493	1954 United States, total.....	427,407
New England.....	26,132	New England.....	13,441	1953 United States, total.....	368,641
		Massachusetts.....	7,440	1952 United States, total.....	328,265
Middle Atlantic.....	23,539	Middle Atlantic.....	136,052	1951 United States, total.....	361,824
New York.....	8,003	New York.....	80,229	1950 United States, total.....	293,584
New Jersey.....	6,844	New Jersey.....	27,349	1947 United States, total.....	220,046
Pennsylvania.....	8,691	Pennsylvania.....	28,474	1954	
East North Central.....	31,892	North Central.....	161,570	Northeast.....	225,415
Ohio.....	10,811	East North Central.....	117,358	New England.....	47,995
Illinois.....	7,760	Illinois.....	28,116	New Hampshire.....	13,893
Wisconsin.....	10,530	Michigan.....	41,192	Massachusetts.....	18,450
West North Central.....	2,123	West North Central.....	44,212	Middle Atlantic.....	177,420
South Atlantic.....	5,735	South.....	70,596	New York.....	79,534
East South Central.....	2,818	South Atlantic.....	42,703	North Central.....	129,627
West South Central.....	7,227	Maryland.....	12,990	Wisconsin.....	124,202
West.....	7,316	Georgia.....	16,505	South.....	<sup>4</sup> 71,254
California.....	3,598	Texas.....	4,560	California.....	12,731

Note: The figures shown for 1950 to 1953 are sample estimates obtained from the Annual Survey of Manufactures for those years. Since the estimates are based on a sample they are subject to sampling variability, that is, they are not the same as figures which would have been obtained if complete censuses had been taken for those years. Measures of the sampling variability (standard errors) of the estimated total value of shipments of each product class are shown in the Annual Survey of Manufactures publications. Also shown are the standard errors of the relative change in shipments between some consecutive Annual Survey years which are the more significant measures when the series is studied for trend.

<sup>1</sup>For the specified product classes, shipments of over \$1 million were reported for the States listed but the exact figures are withheld to avoid disclosure of individual company figures: 26411, Maine, Massachusetts, New York, Ohio, Wisconsin, and Minnesota; 26412, New Hampshire, Vermont, Connecticut, Indiana, Illinois, Minnesota, Missouri, Virginia, Georgia, Alabama, Texas, Washington, Oregon, and California; 26413, New Hampshire, Vermont, New Jersey, Pennsylvania, Wisconsin, Florida, Oregon, and California; 26414, New York, New Jersey, Pennsylvania, Ohio, Wisconsin, and Minnesota; 26415, New Hampshire, Rhode Island, Ohio, and Illinois; 26611, Massachusetts, New Jersey, Pennsylvania, Ohio, Missouri, Virginia, Georgia, Kentucky, Alabama, Washington, Oregon, and California; 26612, Indiana, Michigan, Minnesota, Iowa, Georgia, and Tennessee; 26614, Vermont, Massachusetts, Indiana, Minnesota, Nebraska, Kansas, West Virginia, Florida, Alabama, and Illinois; 26711, Maine, Connecticut, Iowa, Nebraska, Delaware, Kentucky, Alabama, Mississippi, Arkansas, Oklahoma, Colorado, Utah, and Oregon; 26712, Iowa, Florida, Kentucky, Alabama, Colorado, and Georgia; 26741, Rhode Island, Connecticut, District of Columbia, South Carolina, Georgia, Florida, Tennessee, Louisiana, and Oregon; 26912, Ohio, Indiana, Iowa, Kansas, District of Columbia, and California; 26991, New Hampshire, Massachusetts, Ohio, Michigan, Missouri, Virginia, Georgia, Tennessee, Alabama, Texas, Washington, and Oregon; 26992, Vermont, Massachusetts, Rhode Island, Michigan, Missouri, Virginia, North Carolina, Kentucky, Alabama, Arkansas, and Washington; 26993, Vermont, Rhode Island, Connecticut, Ohio, Indiana, Wisconsin, Minnesota, Iowa, Missouri, Nebraska, Kansas, North Carolina, South Carolina, Florida, Tennessee, Arkansas, Louisiana, Washington, and Oregon; 26994, Maine, Connecticut, New Jersey, Pennsylvania, Ohio, Michigan, Delaware, Tennessee, Washington, and Oregon; 26995, Vermont, Massachusetts, New Jersey, Pennsylvania, Indiana, Maryland, and California; 26996, New Hampshire, North Carolina, Mississippi, Louisiana, and Texas.

<sup>2</sup>Includes an unknown amount of pressure sensitive tape (product class 26414).

<sup>3</sup>Data not strictly comparable because an unknown amount of butter, oleo, frozen food containers are included in product class 26712 for 1953 and earlier years and in product class 26993 in 1954.

<sup>4</sup>Represents South and West Region.

Table 7.—MATERIALS CONSUMED, BY KIND: 1954 AND 1947

Code	Description of materials	Unit of measure	1954		1947	
			Quantity	Delivered cost (\$1,000)	Quantity	Delivered cost (\$1,000)
	INDUSTRY 2641—PAPER COATING AND GLAZING					
	Materials and supplies, total.....	.....	xxx	331,177	xxx	222,044
	Paper.....	Short ton.....	720,846	181,873	801,255	(NA)
261213	Groundwood (uncoated).....	.....do.....	24,219	3,969		
261214	Paper-machine-coated.....	.....do.....	74,219	22,910	319,124	(NA)
261215	Book (uncoated).....	.....do.....	241,774	46,834		
261217	Fine.....	.....do.....	12,403	3,793	5,614	(NA)
261219	Coarse and special industrial <sup>2</sup> .....	.....do.....	333,557	95,169	416,512	(NA)
261221	Sanitary tissue stock.....	.....do.....	4,550	835	3,656	(NA)
261223	Tissue paper except sanitary and thin.....	.....do.....	30,124	8,363	9,981	(NA)
261225	Paperboard <sup>3</sup> .....	.....do.....	12,603	2,127	69,409	(NA)
291151	Petroleum wax.....	Thousand pounds	145,678	14,791	(NA)	(NA)
292361	Plastic sheet and film, including cellophane and plicofilm.....	.....do.....	33,448	17,890	18,127	(NA)
970000	All other materials and supplies including materials, etc., not specified by kind.....	.....	xxx	114,496	xxx	(NA)

See footnotes at end of table.



CONVERTED PAPER AND BOARD PRODUCTS

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Table 7.--MATERIALS CONSUMED, BY KIND: 1954 AND 1947--Continued

Code	Description of materials	Unit of quantity	1954		1947	
			Quantity	Delivered cost	Quantity	Delivered cost
				(\$1,000)		(\$1,000)
	INDUSTRY 2651--ENVELOPES					
	Materials and supplies, total.....		xxx	91,646	xxx	58,772
	Paper.....	Short ton.....	267,867	66,821	250,787	(NA)
261213	Groundwood (uncoated).....	do.....				
261214	Paper-machine-coated.....	do.....				
261215	Book (uncoated).....	do.....				
261217	Fine.....	do.....				
261219	Coarse <sup>4</sup> .....	do.....	259,216	64,614	249,175	(NA)
261221	Special industrial.....	do.....				
		do.....	8,651	2,207	51,612	(NA)
	Paperboard, total <sup>3</sup> .....	do.....	14,142	1,754	(NA)	(NA)
291151	Petroleum wax.....	Thousand pounds	(NA)	( <sup>6</sup> )	(NA)	(NA)
282361	Plastic sheet and film, including cellophane and pliofilm.....	do.....	666	349	(D)	(D)
970000	All other materials and supplies including materials, etc., not specified by kind.....		xxx	22,722	xxx	xxx
	INDUSTRY 2661--PAPER BAGS					
	Materials and supplies, total.....		xxx	406,534	xxx	199,920
	Paper.....	Short ton.....	1,728,216	275,921	(NA)	(NA)
261211	Newsprint.....	do.....	(D)	(D)	...	(NA)
261213	Groundwood (uncoated).....	do.....	(D)	(D)		(NA)
261214	Paper-machine-coated.....	do.....	6,268	2,221	(D)	(NA)
261215	Book (uncoated).....	do.....	(D)	(D)		(NA)
261217	Fine.....	do.....	5,359	1,976	2,399	(NA)
261219	Coarse.....	do.....	1,702,828	268,015	1,177,479	(NA)
261221	Special industrial.....	do.....	7,746	2,270	...	(NA)
261225	Tissue paper except sanitary and thin.....	do.....	(D)	(D)	(D)	(NA)
	Paperboard <sup>3</sup> .....	do.....	12,483	1,451	(NA)	(NA)
291151	Petroleum wax.....	Thousand pounds	6,704	710	(NA)	(NA)
282361	Plastic sheet and film, including cellophane and pliofilm.....	do.....	93,782	51,302	16,715	(NA)
970000	All other materials and supplies including materials, etc., not specified by kind.....		xxx	77,150	xxx	xxx
	INDUSTRY 2671--PAPERBOARD BOXES					
	Materials and supplies, total.....		xxx	1,263,317	xxx	831,407
	Paper.....	Short ton.....	116,747	30,260	(NA)	(NA)
261211	Newsprint.....	do.....	2,567	362	3,292	(NA)
261213	Groundwood (uncoated).....	do.....	99,299	26,032	105,216	(NA)
261214	Paper-machine-coated.....	do.....				
261215	Book (uncoated).....	do.....				
261217	Fine.....	do.....				
261219	Coarse <sup>4</sup> .....	do.....				
261221	Special industrial.....	do.....	10,371	2,980	54,831	(NA)
261223	Sanitary tissue stock.....	do.....	(D)	(D)	(D)	(NA)
261225	Tissue paper except sanitary and thin.....	do.....	(D)	(D)	143	(NA)
	Paperboard.....	do.....	8,690,795	1,038,570	7,029,507	(NA)
261231	Container board.....	do.....	6,205,344	723,888	4,680,139	(NA)
261233	Bending board.....	do.....	2,015,127	264,794	1,847,823	(NA)
261235	Nonbending board.....	do.....	374,945	38,408	475,762	(NA)
261237	Special paperboard and cardboard.....	do.....	95,379	11,480	25,783	(NA)
	Petroleum wax.....	Thousand pounds	18,352	1,832	(NA)	(NA)
282361	Plastic sheet and film, including cellophane and pliofilm.....	do.....	(NA)	3,863	14,261	(NA)
970000	All other materials and supplies including materials, etc., not specified by kind.....		xxx	188,792	xxx	(NA)
	INDUSTRY 2674--FIBER CANS, TUBES, DRUMS, ETC.					
	Materials and supplies, total.....		xxx	70,749	xxx	36,818
	Paper <sup>3</sup> .....	Short ton.....	6,442	1,407	(NA)	(NA)
	Paperboard.....	do.....	340,324	35,130	226,218	(NA)
261231	Container board.....	do.....	33,745	3,189	36,631	(NA)
261233	Bending board.....	do.....	39,782	3,612	3,145	(NA)
261235	Nonbending board.....	do.....	8,110	868	3,176	(NA)
261237	Special paperboard and cardboard.....	do.....	258,687	27,461	183,266	(NA)
291151	Petroleum wax.....	Thousand pounds	(NA)	( <sup>6</sup> )	(NA)	(NA)
282361	Plastic sheet and film, including cellophane and pliofilm.....	do.....	(NA)	290	32,455	(NA)
970000	All other materials and supplies including materials, etc., not specified by kind.....		xxx	33,922	xxx	(NA)

See footnotes at end of table.



## MANUFACTURES—INDUSTRY STATISTICS

Table 7.—MATERIALS CONSUMED, BY KIND: 1954 AND 1947 —Continued

Code	Description of materials	Unit of measure	1954		1947	
			Quantity	Delivered cost	Quantity	Delivered cost
				(\$1,000)		(\$1,000)
INDUSTRY 2691—DIE-CUT PAPER AND BOARD						
	Materials and supplies, total.....		xxx	106,884	xxx	41,481
261213	Paper.....	Short ton.....	161,502	39,069	(NA)	(NA)
261214	Groundwood (uncoated).....	.....do.....	41,677	10,952	29,279	(NA)
261215	Paper-machine-coated.....	.....do.....				
261217	Book (uncoated).....	.....do.....				
261219	Fine.....	.....do.....				
261221	Coarse.....	.....do.....	116,977	27,233	29,746	(NA)
261225	Special industrial.....	.....do.....	2,848	884	...	(NA)
261231	Tissue paper except sanitary and thin.....	.....do.....	256,356	31,853	(NA)	(NA)
261233	Paperboard.....	.....do.....	11,391	1,602	(D)	(NA)
261235	Container board.....	.....do.....	69,650	9,217	42,774	(NA)
261237	Bending board.....	.....do.....	48,428	4,701	(NA)	(NA)
	Nonbending board.....	.....do.....	126,887	16,333	(NA)	(NA)
291151	Special paperboard and cardboard.....	.....do.....	15,082	1,098	(NA)	(NA)
282361	Petroleum wax.....	Thousand pounds	2,885	1,982	(D)	(NA)
970000	Plastic sheet and film, including cellophane and pliofilm.....	.....do.....	xxx	32,882	xxx	(NA)
	All other materials and supplies including materials, etc., not specified by kind.....					
INDUSTRY 2693—WALLPAPER						
	Materials, parts, and supplies, total.....		xxx	19,785	xxx	24,981
261213	Paper.....	Short ton.....	59,626	10,766	127,783	(NA)
261298	Groundwood (uncoated).....	.....do.....	55,509	9,789	126,623	(NA)
970000	All other paper <sup>3</sup> .....	.....do.....	4,117	977	1,160	(NA)
	All other materials and supplies including materials, etc., not specified by kind.....		xxx	9,019	xxx	xxx
INDUSTRY 2694—PULP GOODS, PRESSED AND MOLDED						
	Materials and supplies, total.....		xxx	14,474	xxx	
261111	Wood pulp:					
	Own wood pulp, produced at the same location or at other affiliated or associated mills.....	Short ton.....	41,879	3,167	26,566	5,764
261115	Purchased (market) wood pulp.....	.....do.....				
941260	Waste paper.....	.....do.....	52,259	1,422	31,407	
261200	Paper and paperboard <sup>5</sup> .....	.....do.....	577	( <sup>6</sup> )	...	
291151	Petroleum wax.....	Thousand pounds	(D)	(D)	xxx	
282361	Plastic sheet and film, including cellophane and pliofilm.....	.....do.....	(D)	(D)	...	(NA)
970000	All other materials and supplies including materials, etc., not specified by kind.....		xxx	9,311	xxx	xxx
INDUSTRY 2699—PAPER AND BOARD PRODUCTS, N.E.C.						
	Materials and supplies, total.....		xxx	830,819	xxx	
261111	Wood pulp:					
	Own wood pulp, produced at the same location or at other affiliated or associated mills.....	Short ton.....	(D)	(D)	13,795	
261115	Purchased (market) wood pulp.....	.....do.....	(D)	(D)		
941260	Waste paper.....	.....do.....	20,980	931	18,964	
261211	Paper.....	.....do.....	1,880,963	400,534	1,337,775	
261213	Newsprint.....	.....do.....	23,192	3,068	14,023	
261214	Groundwood (uncoated).....	.....do.....	43,883	8,672	109,797	442,105
261215	Paper-machine-coated.....	.....do.....	25,944	7,761		
261217	Book (uncoated).....	.....do.....	83,573	19,882		
261219	Fine.....	.....do.....	98,149	28,790		
261221	Coarse.....	.....do.....	277,212	48,667	95,257	
261222	Special industrial.....	.....do.....	46,514	12,002	295,338	
261223	Sanitary tissue stock.....	.....do.....	1,214,748	254,932	34,664	
261225	Tissue paper except sanitary and thin.....	.....do.....	67,788	16,760	720,471	
261231	Paperboard.....	.....do.....	1,161,788	193,036	68,225	
261233	Container board.....	.....do.....	50,428	6,407	779,463	
261235	Bending board.....	.....do.....	983,390	170,232	84,683	
261237	Nonbending board.....	.....do.....	29,748	3,023	447,254	
261237	Special paperboard and cardboard.....	.....do.....	98,222	13,374	56,992	
291151	Petroleum wax.....	Thousand pounds	235,527	19,106	190,534	
282361	Plastic sheet and film, including cellophane and pliofilm.....	.....do.....	9,904	5,686	(NA)	
970000	All other materials and supplies consumed including materials, etc., not specified by kind.....		xxx	197,909	5,524	(NA)
			xxx	197,909	xxx	xxx

xxx Not applicable. D Withheld to avoid disclosing figures for individual companies. NA Not available. <sup>1</sup>Including the consumption of materials produced by integrated primary paper and board mills at the same location. <sup>2</sup>Consumption data were separately requested for both "Coarse" and "Special Industrial" paper. An analysis of reports indicates that the distinction between the two grades was not clearly drawn, therefore the tonnages have been combined. It is believed that about 95% of this total constitutes "Coarse" paper. <sup>3</sup>Detail items have not been presented separately because of their relative unimportance to the industry's total consumption of paper and board. <sup>4</sup>Consumption data were separately requested for "Groundwood (uncoated)", "Paper-machine-coated", "Book (uncoated)", "Fine", and "Coarse Paper". An analysis of reports indicates that the distinction between the five grades was not clearly drawn in certain industries, therefore the tonnages have been combined. <sup>5</sup>Does not include small amounts of "Absorbent Paper" reported separately but now included in material code 261221 "Special Industrial" paper. <sup>6</sup>Less than \$100 thousand.

CONVERTED PAPER AND BOARD PRODUCTS

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Table 8.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY INDUSTRY SPECIALIZATION AND PRIMARY PRODUCT CLASS SPECIALIZATION, FOR THE UNITED STATES: 1954

(This table presents selected statistics for establishments classified according to their degree of specialization in products primary to the industry. The establishments are classified in two ways: (1) by industry specialization—the degree of specialization in all primary products of the industry; and (2) by product-class specialization—the degree of specialization in the largest product class of the establishment. The degree of "industry specialization" for an establishment represents the ratio of its primary product shipments to its total product shipments, primary and secondary. The degree of "product-class specialization" for an establishment represents the ratio of its largest product class shipments to its total product shipments, primary and secondary. Data are not shown for some industries, product classes, and specialization ranges for a variety of reasons, consequently, detailed figures frequently do not add to the totals. See Introduction for detailed explanation)

Ind. or product class No.	Industry or product class by percent of specialization	Estab- lish- ments, number	All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
2641	PAPER COATING AND GLAZING (entire industry).....	277	27,697	123,991	20,017	42,091	80,101	282,067	340,124	622,192
	Establishments with:									
	90% or more specialization.....	198	13,954	61,298	11,238	23,976	43,816	123,399	192,464	315,864
	75-89% specialization.....	26	4,177	17,796	3,343	7,017	12,214	50,649	68,434	119,084
	50-74% specialization.....	31	9,209	43,620	5,143	10,494	22,126	106,334	76,748	183,082
	All other <sup>1</sup> .....	22	356	1,276	292	603	944	1,684	2,477	4,161
26411	Off-machine coated paper for printing:									
	All establishments specializing in product class	24	4,241	17,722	3,745	8,108	14,558	25,059	53,316	78,375
	Establishments with:									
	90% or more specialization.....	16	3,307	13,830	2,929	6,281	11,336	20,538	40,613	61,152
	75-89% specialization.....	5	824	3,458	734	1,663	2,927	3,971	11,941	15,913
26412	Oiled, waxed, and wax laminated paper:									
	All establishments specializing in product class	64	8,468	38,009	6,534	13,943	26,836	72,481	149,744	222,225
	Establishments with:									
	90% or more specialization.....	41	3,833	17,143	2,970	6,158	11,953	32,300	63,741	96,041
	75-89% specialization.....	8	1,286	5,773	1,010	2,190	4,283	11,338	30,047	41,385
26413	Gummed tape and paper:									
	All establishments specializing in product class	50	2,494	11,466	1,993	4,361	7,580	24,864	34,286	59,150
	Establishments with:									
	90% or more specialization.....	34	1,233	5,868	1,062	2,355	4,258	15,813	16,836	32,649
	75-89% specialization.....	7	708	3,142	542	1,156	1,890	4,945	11,101	16,046
26415	Coated and processed paper:									
	All establishments specializing in product class	75	3,966	16,828	3,206	7,127	12,463	30,147	49,084	79,231
	Establishments with:									
	90% or more specialization.....	51	2,009	8,376	1,675	3,758	6,279	13,214	23,801	37,015
2661	PAPER BAGS (entire industry).....	381	33,326	121,116	27,773	56,227	89,530	211,688	411,379	623,068
	Establishments with:									
	90% or more specialization.....	320	24,034	85,650	20,298	40,935	64,345	153,132	300,247	453,380
	75-89% specialization.....	24	3,296	12,680	2,708	5,667	9,327	20,573	37,688	58,261
26611	Grocery and variety bags, paper:									
	All establishments specializing in product class	38	9,814	35,450	8,638	17,634	28,466	51,104	139,108	190,213
	Establishments with:									
	90% or more specialization.....	21	4,123	14,380	3,751	7,793	12,284	20,478	62,155	82,634
	75-89% specialization.....	6	590	2,533	426	820	1,470	3,918	6,308	10,226
26612	Specialty bags and liners:									
	All establishments specializing in product class	234	11,072	40,592	8,691	17,470	27,290	73,477	108,719	182,197
	Establishments with:									
	90% or more specialization.....	186	5,890	21,422	4,652	9,229	14,143	41,730	57,600	99,331
	75-89% specialization.....	17	900	3,519	687	1,418	2,300	6,498	10,662	17,161
	50-74% specialization.....	28	2,787	10,548	2,146	4,532	7,241	18,138	27,042	45,181
	Less than 50% specialization.....	3	1,494	5,102	1,205	2,290	3,604	7,109	13,413	20,523
26613	Wardrobe, shopping, and other bags, except textile:									
	All establishments specializing in product class	21	643	2,099	550	1,094	1,462	3,514	4,316	7,831
	Establishments with:									
	90% or more specialization.....	17	515	1,659	443	885	1,187	2,860	3,329	6,190
26614	Paper shipping sacks and multiwall bags:									
	All establishments specializing in product class	60	10,534	36,828	9,050	18,137	28,801	72,928	142,210	215,138
	Establishments with:									
	90% or more specialization.....	51	8,013	27,246	6,895	13,716	21,484	54,432	103,705	158,138
2671	Paperboard boxes (entire industry).....	1,704	132,964	525,685	107,762	221,054	371,275	895,298	1,284,281	2,179,580
	Establishments with:									
	90% or more specialization.....	1,539	112,921	444,843	91,618	188,173	314,443	760,202	1,103,428	1,863,630
	75-89% specialization.....	78	9,839	39,302	8,015	16,400	28,456	66,571	94,326	160,897
	50-74% specialization.....	54	8,568	35,294	6,748	13,733	23,815	59,563	80,545	140,108
	All other <sup>1</sup> .....	33	1,636	6,245	1,379	2,747	4,560	8,961	5,982	14,943
26711	Shipping containers, solid fiber and corrugated:									
	All establishments specializing in product class	502	61,524	264,999	47,898	100,118	182,232	475,314	823,366	1,298,680
	Establishments with:									
	90% or more specialization.....	444	49,849	215,328	38,505	80,623	146,461	384,708	679,088	1,063,796
	75-89% specialization.....	18	1,918	8,273	1,484	3,117	5,794	14,030	25,243	39,274
	50-74% specialization.....	34	7,552	32,653	6,144	12,957	23,692	59,390	95,373	154,764
	Less than 50% specialization.....	6	2,205	8,745	1,764	3,420	6,284	17,184	23,661	40,846

See footnote at end of table.

Table 8.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY INDUSTRY SPECIALIZATION AND PRIMARY PRODUCT CLASS SPECIALIZATION, FOR THE UNITED STATES: 1954—Continued

Ind. or prod- uct class No.	Industry or product class by percent of specialization	Estab- lish- ments, number	All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
2671	Paperboard Boxes—Continued									
26712	Folding paperboard boxes and cartons:									
	All establishments specializing in product class.	433	40,883	168,554	33,376	69,548	120,336	279,070	360,601	639,671
	Establishments with:									
	90% or more specialization.....	312	22,272	93,436	18,383	38,252	66,849	157,165	195,118	352,283
	75-89% specialization.....	50	6,134	24,625	5,060	10,368	17,749	39,572	48,522	88,094
	50-74% specialization.....	59	9,527	37,952	7,626	16,147	27,428	62,817	88,608	151,426
	Less than 50% specialization.....	12	2,949	12,540	2,307	4,780	8,309	19,515	28,352	47,867
26713	Set-up paperboard boxes:									
	All establishments specializing in product class.	635	28,469	84,768	24,673	47,738	62,903	128,989	87,212	216,202
	Establishments with:									
	90% or more specialization.....	533	21,493	62,627	18,750	36,091	47,052	96,332	65,120	161,453
	75-89% specialization.....	41	2,014	5,966	1,745	3,341	4,287	8,987	6,339	13,327
	50-74% specialization.....	49	4,018	13,014	3,387	6,718	9,323	18,925	12,728	31,653
	Less than 50% specialization.....	12	943	3,160	790	1,586	2,240	4,744	3,024	7,769
26714	Vulcanized fiber boxes:									
	All establishments specializing in product class.	10	347	1,325	287	260	1,027	2,307	1,758	4,066
	Establishments with:									
	90% or more specialization.....	6	92	257	75	155	179	453	381	834
2674	FIBER CANS, TUBES, DRUMS, etc. (entire industry).....	184	12,088	44,958	10,460	21,117	34,861	74,377	72,419	146,797
	Establishments with:									
	90% or more specialization.....	164	10,909	40,786	9,420	18,980	31,791	67,585	66,681	134,267
	75-89% specialization.....	5	209	664	185	344	501	1,211	1,790	3,002
26741	Paperboard cans, tubes, and drums:									
	All establishments specializing in product class.	138	9,785	36,538	8,557	17,618	28,936	63,097	63,979	127,077
	Establishments with:									
	90% or more specialization.....	122	8,467	31,729	7,372	15,130	25,155	55,421	57,879	113,301
	75-89% specialization.....	3	253	808	226	456	613	1,490	1,759	3,249
	50-74% specialization.....	13	1,064	4,000	958	2,032	3,167	6,185	4,340	10,526
26743	Vulcanized fiber products, except boxes:									
	All establishments specializing in product class.	13	441	1,525	372	720	1,159	1,844	1,744	3,589
	Establishments with:									
	90% or more specialization.....	7	280	986	238	442	769	1,042	936	1,978
2691	DIE-CUT PAPER AND BOARD (entire industry).....	352	12,260	47,940	9,933	19,677	34,633	97,964	108,687	206,652
	Establishments with:									
	90% or more specialization.....	250	7,471	28,834	6,202	12,527	21,909	62,237	71,477	133,715
	75-89% specialization.....	32	1,286	4,980	986	1,917	3,108	9,914	10,337	20,252
	50-74% specialization.....	26	2,595	10,712	1,994	3,795	7,481	20,786	23,986	44,772
	All other <sup>1</sup> .....	44	908	3,414	751	1,438	2,134	5,025	2,885	7,911
26911	Die-cut office supplies:									
	All establishments specializing in product class.	77	4,056	15,447	3,186	6,139	10,426	27,365	21,911	49,277
	Establishments with:									
	90% or more specialization.....	55	2,109	7,977	1,759	3,487	5,744	12,154	11,745	23,900
	75-89% specialization.....	9	603	2,461	440	857	1,435	4,735	4,581	9,317
	50-74% specialization.....	9	1,252	4,620	914	1,740	3,160	9,935	5,189	15,125
	Less than 50% specialization.....	4	91	388	71	53	85	538	396	935
26912	Miscellaneous die-cut products:									
	All establishments specializing in product class.	136	5,458	21,574	4,525	9,047	16,994	51,643	59,244	110,887
	Establishments with:									
	90% or more specialization.....	98	3,398	13,163	2,875	5,716	11,150	36,568	37,553	74,121
	75-89% specialization.....	21	614	2,141	502	1,185	1,462	4,602	4,267	8,870
26913	Pasted, lined, laminated, coated paperboard:									
	All establishments specializing in product class.	63	1,935	8,128	1,514	3,143	5,277	14,361	25,568	39,930
	Establishments with:									
	90% or more specialization.....	51	1,311	5,509	1,023	2,100	3,462	9,553	18,329	27,883
	75-89% specialization.....	4	197	775	154	332	540	1,383	2,243	3,626
2699	PAPER AND BOARD PRODUCTS, n.e.c. (entire industry)....	873	73,195	289,809	58,393	120,699	205,532	584,323	843,299	1,427,622
	Establishments with:									
	90% or more specialization.....	726	50,192	194,981	40,536	83,588	139,642	416,035	580,307	996,342
	75-89% specialization.....	46	9,125	38,449	6,421	13,462	23,248	68,300	74,702	143,003
	50-74% specialization.....	71	12,778	52,620	10,562	21,877	40,028	93,984	177,059	271,044
	All other <sup>1</sup> .....	30	1,099	3,808	873	1,770	2,613	6,003	11,229	17,233

See footnote at end of table.



CONVERTED PAPER AND BOARD PRODUCTS

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Table 8.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY INDUSTRY SPECIALIZATION AND PRIMARY PRODUCT CLASS SPECIALIZATION, FOR THE UNITED STATES: 1954—Continued

Ind. or product class No.	Industry or product class by percent of specialization	Establishments, number	All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
2699	PAPER AND BOARD PRODUCTS—Con.									
26991	Stationery, tablets, and related products:									
	All establishments specializing in product class	32	8,256	30,181	6,425	12,708	19,489	45,564	59,285	104,850
	Establishments with:									
	90% or more specialization.....	65	5,101	18,588	4,006	7,829	11,777	29,434	36,839	66,274
	75-89% specialization.....	12	1,921	7,423	1,449	2,959	4,843	10,236	15,568	25,804
26992	Wrapping products except coated, oiled and waxed:									
	All establishments specializing in product class	65	4,614	19,232	3,469	7,396	12,278	38,428	50,364	88,793
	Establishments with:									
	90% or more specialization.....	43	2,125	8,622	1,649	3,368	5,440	17,934	25,115	43,050
26993	Sanitary food containers:									
	All establishments specializing in product class	97	24,051	99,422	19,559	41,855	74,703	217,076	239,515	456,592
	Establishments with:									
	90% or more specialization.....	80	16,256	65,543	13,325	28,593	50,075	153,675	168,319	321,995
	75-89% specialization.....	5	3,677	16,550	2,751	5,976	10,870	30,280	32,055	62,335
26994	Sanitary tissue health products:									
	All establishments specializing in product class	108	13,302	54,266	11,404	24,063	43,266	117,989	352,447	470,437
	Establishments with:									
	90% or more specialization.....	89	7,595	31,714	6,418	13,671	24,481	74,510	221,215	295,726
26995	Food serving paper products:									
	All establishments specializing in product class	57	3,101	11,043	2,329	4,651	6,984	21,406	20,648	42,055
	Establishments with:									
	90% or more specialization.....	20	891	3,138	692	1,371	2,049	5,672	6,506	12,178
	75-89% specialization.....	6	244	666	212	422	519	1,233	1,177	2,411
26996	Other converted paper and paperboard products:									
	All establishments specializing in product class	392	19,181	73,416	14,608	28,854	47,078	139,650	116,180	255,830
	Establishments with:									
	90% or more specialization.....	326	13,280	48,431	10,576	20,668	32,773	95,122	78,219	173,341
	75-89% specialization.....	24	1,572	6,661	1,129	2,216	4,241	12,818	9,759	22,578
	50-74% specialization.....	34	4,107	17,506	2,728	5,630	9,525	29,549	25,331	54,880
	Less than 50% specialization.....	8	222	818	173	339	537	2,160	2,870	5,030

<sup>1</sup>This class includes data for establishments with less than 50 percent specialization in the primary products of the industry and establishments engaged exclusively in contract work defined in the industry. Miscellaneous small statistical adjustments are also included.



## Major Group 27.—Printing and Publishing

This major group includes establishments engaged in printing by one or more of the common processes, such as letterpress, lithography, gravure, or screen; and those establishments which perform services for the printing trade, such as bookbinding, typesetting, engraving, photoengraving, and

electrotyping. This major group also includes establishments engaged in publishing newspapers, books, and periodicals, regardless of whether or not they do their own printing. News syndicates are classified in Service Industries, and textile printing and finishing in Major Group 22.

Table 1.—GENERAL STATISTICS FOR THE INDUSTRY GROUP: 1954 AND EARLIER YEARS  
(For explanation of column captions see Introduction)

Year <sup>1</sup>	Establish- ments, number	All employees <sup>2</sup>		Production workers			Value added by manufacture <sup>3</sup>	Capital expendi- tures, new	Horsepower of prime movers and electric motors <sup>4</sup>
		Number	Payroll	Number	Man-hours	Wages			
				(\$1,000)		(1,000)	(\$1,000)	(\$1,000)	(\$1,000)
1954.....	32,531	804,386	3,625,133	499,666	961,465	2,115,344	6,264,558	236,897	975
1953 <sup>5</sup> .....	(NA)	760,332	3,386,515	474,006	924,397	2,013,924	5,916,432	195,082	(NA)
1952 <sup>5</sup> .....	30,147	772,801	3,267,367	471,348	999,179	1,908,702	5,660,124	188,759	
1951 <sup>5</sup> .....	29,704	765,318	3,068,288	473,802	990,845	1,791,440	5,288,507	243,806	
1950 <sup>5</sup> .....	29,427	762,716	2,908,857	471,723	1,019,047	1,702,341	4,906,834	244,396	
1949 <sup>5</sup> .....	(NA)	756,233	2,743,997	461,517	993,869	1,569,112	4,658,892	254,098	
1947.....	28,978	715,120	2,276,262	437,880	888,254	1,317,573	4,248,773	226,368	771
1939 <sup>6</sup> .....	24,878	552,324	977,485	324,371	(NA)	493,444	1,765,314	(NA)	
1937 <sup>7</sup> .....	22,674	554,983	951,360	350,952		530,214	1,784,984	(NA)	
1935.....	22,505	472,458	791,699	302,643		443,923	1,546,640		
1933 <sup>8</sup> .....	19,216	398,702	579,153	261,904		353,227	1,245,328		
1931.....	24,664	(NA)	(NA)	314,858	(NA)	535,120	1,767,976	(NA)	(NA)
1929.....	27,364	566,380	1,138,464	358,438		636,375	2,233,209		
1927.....	25,275	523,909	1,027,249	331,354		589,217	1,936,069		
1925.....	23,646	496,657	924,236	317,191		544,200	1,757,124		
1923.....	22,897	480,636	837,840	309,764		494,395	1,527,106		
1921.....	22,559	428,156	717,647	283,768		435,655	1,305,794		
1919.....	33,262	448,192	594,004	303,576		352,277	1,091,039		
1914.....	34,241	406,433	339,823	285,735		207,025	626,926		
1909.....	32,137	373,533	280,883	270,179		173,478	518,925		
1904.....	28,369	299,388	203,393	228,410		133,404	423,919		
1899.....	24,363	243,993	144,234	202,284		103,782	299,708		

NA Not available.

<sup>1</sup>In addition to data for operating establishments, manufacturers' central administrative offices and auxiliary units reported 6,088 employees with a payroll of \$33,778 in 1954. Similar data are shown for the years 1949-1953 in the Annual Survey of Manufactures volumes.

<sup>2</sup>The figures for 1939 through 1954 include data for employees of Printing and Publishing establishments who were engaged in distribution and construction work. The extent to which data for such employees are included in the figures for earlier years is not known.

<sup>3</sup>Value of products and receipts less cost of materials, supplies, fuel, electricity, and contract work. For 1909-1933 cost of contract work was subtracted from value at products in calculating value added by manufacture only for the industries in which it was significant. For 1899 and 1904, cost of contract work was not subtracted from value of products for any industries. Value added by manufacture for 1909, calculated by the method used for 1899 and 1904, was \$553.5 million.

<sup>4</sup>Driven by purchased energy.

<sup>5</sup>The figures for 1949-1953 represent estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard error associated with these estimates are published in the Annual Survey of Manufactures volumes for this period.

<sup>6</sup>The figures for 1899-1939 include data for establishments primarily engaged in the manufacture of tags, which are classified in 1947-1954 in the pulp, paper and products industries.

<sup>7</sup>The figures for 1899-1937 include data for establishments primarily engaged in the manufacture of paper patterns, which are included for later years in the series for the pulp, paper and products industries.

<sup>8</sup>Establishments engaged solely in music publishing were not canvassed in 1933.



## MANUFACTURES—INDUSTRY STATISTICS

Table 2.—GENERAL STATISTICS FOR INDUSTRY GROUPS BY REGIONS AND STATES: 1954 AND 1947  
(For explanation of column captions see introduction)

Industry group, region, and State	1954								1947	
	Number of establish- ments	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
		Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
Printing and publishing (S.I.C. Group 27), total.	32,531	804,386	3,625,133	499,666	961,465	2,115,344	6,264,558	236,897	715,120	4,248,773
New England.....	2,151	59,986	248,709	39,674	75,219	153,198	396,781	17,115	54,169	281,179
Maine.....	138	1,943	6,740	1,205	2,325	3,944	11,751	535	1,867	8,743
New Hampshire.....	116	2,975	11,377	2,224	4,259	7,800	18,624	(1)	2,345	10,960
Vermont.....	80	1,335	4,660	978	1,772	3,017	7,739	546	1,057	3,803
Massachusetts.....	1,202	36,360	149,983	24,081	44,881	91,680	241,912	10,531	34,564	174,667
Rhode Island.....	156	3,661	15,729	2,379	4,602	9,428	24,589	752	3,258	15,925
Connecticut.....	459	13,711	60,219	8,805	17,378	37,326	92,163	4,252	11,078	67,081
Middle Atlantic.....	8,838	254,505	1,214,331	151,329	290,162	660,755	2,230,623	61,801	240,963	1,555,761
New York.....	5,839	168,091	825,334	93,564	176,402	410,998	1,583,450	34,341	166,125	1,133,621
New Jersey.....	1,058	24,630	113,087	17,106	32,946	77,153	176,551	8,557	20,152	109,228
Pennsylvania.....	1,941	61,783	275,909	40,658	80,813	172,603	470,620	18,903	54,686	312,912
East North Central.....	7,329	218,091	1,028,416	141,218	274,406	636,091	1,712,835	73,998	195,263	1,169,861
Ohio.....	1,732	59,267	269,552	38,409	74,564	161,341	465,575	22,532	49,943	322,283
Indiana.....	799	18,010	76,107	11,581	22,498	47,668	125,331	5,392	15,680	82,623
Illinois.....	2,720	93,944	461,854	61,512	119,178	291,969	756,506	28,129	91,421	541,841
Michigan.....	1,257	26,973	133,298	16,769	32,829	81,313	223,518	11,900	21,677	136,983
Wisconsin.....	821	19,895	87,603	12,945	25,336	53,798	141,903	6,043	16,542	86,131
West North Central.....	3,570	70,213	288,407	43,673	82,390	166,352	490,014	22,946	60,618	335,455
Minnesota.....	804	19,450	85,808	11,656	21,678	46,626	138,625	4,541	18,143	105,343
Iowa.....	632	11,393	44,609	6,531	12,787	24,432	85,727	3,424	9,128	55,342
Missouri.....	1,021	23,997	101,855	15,759	29,257	61,737	162,896	9,575	21,534	116,723
North Dakota.....	119	1,220	4,374	808	1,540	2,797	7,382	(1)	961	4,835
South Dakota.....	158	1,441	4,988	881	1,717	2,814	8,236	573	1,152	5,566
Nebraska.....	364	4,816	18,286	2,966	5,788	10,462	32,881	1,580	4,049	21,445
Kansas.....	472	7,893	28,486	5,070	9,620	17,483	54,265	2,755	5,651	26,201
South Atlantic.....	2,870	61,941	249,179	38,170	74,912	143,862	416,094	17,703	49,335	262,272
Delaware.....	49	1,323	6,003	939	1,705	4,069	8,929	(1)	875	4,038
Maryland.....	380	10,719	45,333	7,240	14,473	27,823	74,194	3,189	9,904	54,241
District of Columbia	246	10,837	49,649	6,043	10,819	24,819	83,539	2,252	9,847	58,557
Virginia.....	396	8,016	29,492	5,048	9,996	17,458	48,209	2,758	5,861	29,867
West Virginia.....	192	3,299	12,119	1,881	3,679	6,964	19,330	1,049	3,008	13,939
North Carolina.....	429	7,489	27,285	4,895	9,490	16,254	45,497	1,772	5,297	25,369
South Carolina.....	175	2,871	10,008	1,614	3,178	5,510	17,468	763	2,025	8,994
Georgia.....	436	7,964	32,529	5,278	10,355	20,319	56,213	2,216	6,230	32,561
Florida.....	567	9,420	36,758	5,228	11,212	20,641	62,710	3,490	6,288	34,706
East South Central.....	1,145	23,941	95,008	16,166	32,490	61,547	159,411	7,378	20,854	102,083
Kentucky.....	317	7,100	30,028	5,063	10,333	20,058	46,611	2,001	6,194	28,745
Tennessee.....	388	10,067	39,837	6,763	13,466	25,888	66,606	3,286	9,313	46,841
Alabama.....	266	4,769	18,471	3,072	6,011	11,714	35,296	1,664	3,742	19,764
Mississippi.....	174	2,003	6,672	1,266	2,679	3,885	10,897	(1)	1,605	6,733
West South Central.....	2,247	35,762	136,163	22,126	45,084	80,855	244,960	11,872	28,996	154,323
Arkansas.....	200	2,756	9,546	1,728	3,360	5,805	15,759	594	2,226	11,342
Louisiana.....	303	4,736	18,825	2,958	5,793	11,214	34,571	1,395	3,973	23,005
Oklahoma.....	380	5,732	21,209	3,451	6,596	12,064	39,958	1,442	5,041	27,509
Texas.....	1,364	22,537	86,582	13,987	29,333	51,771	154,672	8,440	17,756	92,467
Mountain.....	973	14,725	58,561	9,367	17,547	37,181	102,449	6,137	11,842	59,784
Montana.....	100	1,553	6,313	1,011	1,794	4,226	9,912	(1)	1,283	6,037
Idaho.....	94	966	3,796	632	1,238	2,393	6,777	(1)	961	4,968
Wyoming.....	53	613	2,367	316	594	1,319	3,896	(1)	486	2,209
Colorado.....	342	5,927	24,095	3,829	7,146	15,248	39,553	2,411	4,596	22,386
New Mexico.....	94	1,079	4,042	669	1,240	2,584	7,460	1,010	752	3,729
Arizona.....	134	2,196	8,544	1,350	2,550	5,288	16,646	1,274	1,549	8,761
Utah.....	122	1,754	6,775	1,162	2,137	4,519	13,354	(1)	1,808	9,342
Nevada.....	34	634	2,628	396	845	1,602	4,847	(1)	407	2,352
Pacific.....	3,408	65,221	306,356	37,941	69,252	175,499	511,387	17,942	53,080	328,055
Washington.....	445	7,457	33,701	4,188	7,574	19,340	56,765	2,333	6,673	42,680
Oregon.....	315	5,081	22,355	2,921	5,321	13,257	38,179	1,017	4,493	24,311
California.....	2,648	52,682	250,299	30,831	56,357	142,901	416,442	14,592	41,914	261,064
Newspapers (S.I.C. Group 271), total <sup>2</sup> .....	8,646	281,799	1,262,793	148,941	281,198	667,058	2,144,223	75,536	234,375	1,405,709
Periodicals (S.I.C. Group 272), total <sup>2</sup> .....	2,045	62,428	312,695	16,348	29,614	68,218	795,543	14,542	68,957	638,384

See footnotes at end of table.

PRINTING AND PUBLISHING

27-3

Table 2.—GENERAL STATISTICS FOR INDUSTRY GROUPS BY REGIONS AND STATES: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Industry group, region, and State	1954								1947	
	Number of establish- ments	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
		Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
Books (S.I.C. Group 273), total <sup>1</sup> .....	1,412	57,400	245,196	27,893	55,025	107,607	539,395	14,801	51,964	325,907
New England.....	110	5,137	21,457	3,300	6,219	12,421	48,316	2,018	4,384	27,102
Vermont.....	5	132	426	123	242	402	594	(1)	(D)	(D)
Massachusetts.....	70	4,399	18,411	2,790	5,242	10,477	43,485	1,860	2,848	20,065
Rhode Island.....	6	223	1,171	179	286	820	1,626	(D)	...	...
Connecticut.....	19	302	1,201	156	338	567	2,224	(1)	292	1,136
Middle Atlantic.....	628	26,196	114,132	10,048	19,575	39,312	274,418	5,229	28,666	186,269
New York.....	502	21,217	94,017	6,587	12,787	26,568	237,100	3,859	25,760	168,993
New Jersey.....	42	1,204	5,031	841	1,541	3,360	9,180	500	176	1,210
Pennsylvania.....	84	3,775	15,084	2,619	5,246	9,384	28,137	869	2,730	16,066
East North Central.....	295	16,456	71,770	8,049	15,895	33,697	154,557	4,643	14,128	86,986
Ohio.....	58	2,133	8,683	1,196	2,359	4,593	16,405	544	2,126	9,691
Indiana.....	31	3,145	13,681	2,365	4,736	10,125	19,036	877	2,574	13,073
Illinois.....	131	7,623	32,227	2,052	3,988	8,772	88,994	2,270	6,765	48,861
West North Central.....	98	3,701	14,677	2,379	4,717	7,760	24,586	519	2,682	15,039
Minnesota.....	33	1,586	6,385	1,128	2,300	3,722	11,482	(1)	(D)	(D)
Iowa.....	17	377	1,274	220	474	482	1,683	(1)	143	690
Missouri.....	28	1,207	4,486	714	1,328	2,335	7,693	(1)	833	4,482
Kansas.....	10	420	2,206	267	528	1,088	3,165	(1)	281	2,113
South Atlantic.....	97	1,957	7,642	1,423	2,820	4,815	12,223	780	(D)	(D)
Maryland.....	16	262	1,127	129	266	461	2,363	(1)	227	1,352
District of Columbia..	25	269	1,264	194	385	770	1,789	(1)	162	(D)
Virginia.....	16	455	1,434	370	738	1,064	2,199	(1)	(D)	(D)
Georgia.....	13	640	2,764	481	935	1,775	4,363	(1)	(D)	(D)
East South Central.....	29	1,832	7,739	1,453	3,168	5,988	11,547	933	(D)	(D)
West South Central.....	51	1,224	3,794	852	1,881	1,982	6,177	(1)	(D)	(D)
Mountain.....	13	59	180	39	77	125	422	(1)	(D)	(D)
Pacific.....	91	834	3,801	346	668	1,503	7,143	(1)	(D)	(D)
California.....	81	749	3,456	288	544	1,232	6,579	(1)	562	3,623
Miscellaneous publishing (S.I.C. Group 274), total <sup>2</sup> ..	946	18,378	73,174	5,271	9,570	24,090	149,310	3,270	12,036	72,151
Commercial printing (S.I.C. Group 275), total <sup>2</sup> .....	12,073	200,233	888,659	157,567	305,988	650,828	1,357,820	65,822	191,719	970,291
Lithographing (S.I.C. Group 276), total <sup>2</sup> .....	2,924	77,717	376,571	60,178	117,968	261,249	578,883	34,854	52,408	314,132
Greeting cards (S.I.C. Group 277), total <sup>2</sup> .....	294	21,347	70,434	15,297	28,624	41,960	131,343	8,809	18,053	81,051
Bookbinding and related in- dustries (S.I.C. Group 278), total <sup>3</sup> .....	1,419	37,305	130,670	31,646	61,124	98,243	199,271	7,458	42,561	177,144
New England.....	110	4,032	13,070	3,428	6,479	10,464	18,662	1,001	4,942	19,616
New Hampshire.....	3	152	692	111	241	426	878	(1)	(D)	(D)
Massachusetts.....	82	3,443	10,924	2,940	5,504	8,970	15,882	867	4,622	18,436
Connecticut.....	15	394	1,366	339	664	991	1,751	(1)	(D)	(D)
Middle Atlantic.....	623	16,384	56,850	14,403	28,000	44,679	86,187	2,517	19,835	83,676
New York.....	473	12,943	45,311	11,376	21,950	35,396	68,567	1,953	14,734	64,848
New Jersey.....	56	1,747	5,997	1,555	3,145	5,138	9,560	(1)	1,948	8,212
Pennsylvania.....	94	1,693	5,542	1,471	2,925	4,144	8,059	(1)	3,153	10,616

See footnotes at end of table.

## MANUFACTURES—INDUSTRY STATISTICS

Table 2.—GENERAL STATISTICS FOR INDUSTRY GROUPS BY REGIONS AND STATES: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Industry group, region, and State	1954							1947		
	Number of establish- ments	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
		Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
Bookbinding and related in- dustries (S.I.C.278),—Con...										
East North Central.....	297	9,944	37,047	8,037	15,606	25,961	55,303	2,292	10,207	43,237
Ohio.....	68	1,784	6,569	1,205	2,389	3,911	9,572	(1)	1,816	7,538
Indiana.....	21	477	1,750	310	557	886	3,226	(1)	287	941
Illinois.....	146	5,145	18,896	4,437	8,634	14,257	27,772	1,094	5,063	20,963
Michigan.....	38	1,535	6,258	1,283	2,500	4,567	9,334	658	1,970	9,576
Wisconsin.....	24	1,001	3,574	800	1,525	2,339	5,397	(1)	1,071	4,219
West North Central.....	97	1,422	4,818	1,195	2,167	3,513	7,920	(1)	1,778	7,369
Kansas.....	7	287	1,156	217	438	736	1,712	(1)	(D)	(D)
South.....	143	2,662	7,654	2,307	4,607	5,785	12,758	587	3,378	12,852
Maryland.....	15	803	2,492	692	1,370	1,735	3,821	(1)	627	2,068
North Carolina.....	7	135	339	122	257	287	483	(1)	151	340
Kentucky.....	4	143	557	108	237	338	768	(1)	40	(D)
Texas.....	29	780	1,961	707	1,405	1,654	3,839	(1)	454	1,620
Mountain.....	21	164	472	145	277	361	747	(1)	134	447
Pacific.....	128	2,694	10,757	2,130	3,956	7,478	17,691	691	2,287	9,947
California.....	108	2,551	10,292	2,000	3,740	7,096	16,818	594	2,153	9,326
Printing trade services (S.I.C. Group 279), total <sup>3</sup> ..	2,772	47,777	264,937	36,522	72,350	196,087	368,766	11,802	43,047	264,004
New England.....	219	3,550	17,738	2,837	5,465	13,559	24,893	960	3,346	16,901
Massachusetts.....	106	1,667	8,272	1,274	2,334	6,096	11,114	(1)	2,081	10,275
Rhode Island.....	27	458	2,107	370	747	1,634	2,937	(1)	340	1,538
Connecticut.....	65	1,206	6,501	1,006	2,041	5,138	9,609	(1)	846	4,737
Middle Atlantic.....	894	19,453	110,188	14,667	28,464	81,457	149,593	3,988	18,766	113,913
New York.....	604	13,888	82,109	10,305	20,060	60,112	111,712	2,891	13,157	84,738
New Jersey.....	113	1,241	6,085	977	1,888	4,741	8,579	(1)	1,007	5,480
Pennsylvania.....	177	4,323	21,993	3,385	6,515	16,602	29,301	754	4,602	23,695
East North Central.....	698	14,116	85,526	10,872	22,475	62,840	117,257	3,665	12,274	80,940
Ohio.....	177	2,893	15,911	2,142	4,431	11,181	22,019	606	2,582	15,590
Indiana.....	57	966	5,055	751	1,484	3,700	6,742	(1)	919	5,249
Illinois.....	289	7,071	44,685	5,529	11,365	33,548	60,299	1,830	6,285	43,130
Michigan.....	112	2,345	15,293	1,826	3,998	11,123	21,768	833	1,757	12,478
Wisconsin.....	63	839	4,580	622	1,195	3,287	6,287	(1)	731	4,493
West North Central.....	190	2,368	12,068	1,776	3,410	8,667	16,671	719	2,208	12,703
Minnesota.....	38	600	3,319	449	893	2,458	4,586	(1)	654	4,120
Iowa.....	28	222	1,114	172	316	819	1,543	(1)	212	1,223
Missouri.....	91	1,332	6,685	996	1,902	4,675	9,012	(1)	1,186	6,475
Nebraska.....	13	107	517	77	146	384	827	(1)	30	(D)
South Atlantic.....	193	2,454	11,151	1,926	3,859	8,388	15,901	735	1,660	10,149
Maryland.....	37	489	2,435	377	781	1,797	3,339	(1)	408	2,755
District of Columbia...	27	537	2,778	420	838	2,111	3,932	(1)	345	2,278
Virginia.....	26	231	1,035	176	373	777	1,569	(1)	172	1,065
North Carolina.....	27	386	1,464	318	647	1,074	2,130	(1)	191	872
South Carolina.....	9	166	720	145	291	581	1,026	(1)	11	(D)
Georgia.....	24	336	1,495	254	467	1,157	2,005	(1)	338	2,007
Florida.....	34	239	862	183	365	642	1,365	(1)	145	821
East South Central.....	67	992	3,845	791	1,615	2,946	5,872	(1)	871	4,251
Kentucky.....	26	321	1,241	260	523	967	1,769	(1)	320	1,673
Tennessee.....	28	455	2,016	348	716	1,501	3,068	(1)	353	1,752
West South Central.....	147	1,398	6,402	1,060	2,120	4,739	9,955	(1)	1,039	6,079
Louisiana.....	25	158	623	119	304	454	1,060	(1)	131	652
Oklahoma.....	21	166	747	120	223	501	1,151	(1)	116	791
Texas.....	96	1,039	4,841	797	1,549	3,653	7,471	(1)	766	4,489
Mountain.....	59	452	1,990	326	625	1,393	3,383	(1)	328	1,667
Colorado.....	27	261	1,124	183	361	758	1,962	(1)	246	1,203
Pacific.....	305	2,990	16,026	2,264	4,315	12,093	25,239	806	2,555	17,401
Washington.....	32	268	1,425	189	339	966	2,138	(1)	256	1,615
Oregon.....	21	205	1,044	154	335	739	1,688	(1)	140	879
California.....	252	2,515	13,557	1,921	3,640	10,387	21,411	721	2,159	14,907

NOTE: Detailed figures may not add to the totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>Less than \$500 thousand.<sup>2</sup>This industry sub-group consists of a single four-digit industry. Detailed data by State are included in the four-digit industry tables.<sup>3</sup>Each producing state not shown separately has been withheld either (a) to avoid disclosing figures for individual companies; or (b) because the state had less than 100 employees in the industry group. Such state figures are included, however, in the appropriate divisional and United States totals.

Table 3.—DETAILED STATISTICS FOR OPERATING MANUFACTURING ESTABLISHMENTS IN THE UNITED STATES  
(For explanation of line captions see Introduction)

Item	Major industry group 27	Item	Major industry group 27
Number of establishments, total.....	52,531	Cost and quantity of purchased fuel and electricity—Con.	
With 1-19 employees.....	26,476	Electric energy:	
With 20-99 employees.....	4,750	Purchased:	
With 100 employees and over.....	1,305	Quantity.....million kwh..	1,680
All employees:		Cost.....\$1,000..	36,150
Number (average for year).....	804,386	Generated.....million kwh..	5
Payroll.....\$1,000..	3,625,133	Sold:	
Production workers:		Quantity.....million \$1,000..	47
Number (average for year).....	499,666		
Man-hours.....1,000..	961,465	Manufacturers' inventories:	
Wages.....\$1,000..	2,115,344	Beginning of year, total.....do....	(NA)
Value added by manufacture.....do....	6,264,558	Finished products.....do....	(NA)
Value added by resales.....do....	147,592	Work-in-process.....do....	(NA)
Number of employees for selected months:		Materials, supplies, fuel, etc.....do....	(NA)
March.....	800,982	End of year, total.....do....	(NA)
May.....	798,895	Finished products.....do....	(NA)
August.....	800,073	Work-in-process.....do....	(NA)
November.....	817,576	Materials, supplies, fuel, etc.....do....	(NA)
Cost and quantity of purchased fuel and electricity:		Expenditures for plant and equipment:	
Fuels consumed, total cost.....\$1,000..	13,331	Capital expenditures, new.....do....	236,897
Bituminous coal and anthracite:		New structures and additions to plant.....do....	59,436
Quantity.....1,000 short tons..	(NA)	New machinery and equipment.....do....	177,461
Value.....\$1,000..	(NA)	Expenditures for used plant and equipment.....do....	19,146
Coke:		Horsepower rating of power equipment at end of 1954:	
Quantity.....1,000 short tons..	(NA)	Total horsepower of prime movers and electric	
Value.....\$1,000..	(NA)	motors driven by purchased energy.....1,000 hp..	975
Fuel oil:		Engines, etc., driving electric generators.....do....	34
Quantity.....1,000 barrels..	(NA)	Engines, etc., not driving electric	
Value.....\$1,000..	(NA)	generators.....do....	11
Gas:		Electric motors driven by purchased energy.....do....	930
Quantity.....million cubic feet..	(NA)	Electric motors driven by energy generated at the	
Value.....\$1,000..	(NA)	establishment.....do....	(NA)
Other fuels:			
Value.....do....	(NA)		

Note: Detailed figures may not add to totals because of independent rounding.

NA Not available.

Less than 100 million kwh.









# Newspapers, Periodicals, Books, and Miscellaneous Publishing

This report shows 1954 Census of Manufactures statistics for establishments classified in each of the following industries:

<u>Code</u>	<u>Title</u>
2711—Newspapers	
2721—Periodicals	
2731—Books; Publishing and Printing	
2732—Book Printing	
2741—Miscellaneous Publishing	

As in previous Censuses, publishing, printing and allied activities, other than those performed in Government-owned and operated establishments, are included as manufacturing activities. Establishments engaged in publishing newspapers, and establishments primarily engaged in publishing periodicals, books, and miscellaneous publications (including those primarily engaged in book printing) are assigned to one of the five separately described industries below. As noted in the Introduction, this report does not incorporate any data reported by religious, social, charitable, educational, and other non-profit organizations whose employees are not covered under the Social Security system. News syndicates are classified in service industries and their activities are included in the Census of Business.

The term "publisher" is used to designate the person or organization by whom or in whose name newspapers, periodicals, and other publications are listed. In order to provide the fullest possible coverage of the publishing field in the Census of Manufactures, a separate report was requested from each publishing establishment, whether or not any printing was done at the publishing location. All establishments engaged in the publishing of one or more newspapers are classified as newspaper publishers, without regard to the ratio of receipts from other activities (e.g., job printing) to their total receipts.

Publishers of newspapers and periodicals were asked to report separately for each of their publications, where possible, information on circulation and dollar receipts by frequency of issue as well as by type of revenue. The more common frequencies of issue were listed on the report forms supplied to all newspapers, and a classification guide was sent to publishers of periodicals to provide uniform designation of periodicals by type of issue. Newspaper and periodical publishers were required to break their total revenues into two-parts—receipts from subscriptions and sales, and receipts from advertising; "total revenue" was defined as net after deducting advertising agency commissions, cash discounts, newsstand, carrier, and wholesalers' commissions, and other similar items.

For 1954, detailed product statistics at the national level for the five industries included in this report are presented in a single table (Table 6A). In the 1947 publication, separate tables or sets of tables were used to show comparable data on dollar receipts, circulation, and number of copies sold. The general operating statistics shown in Tables 1 through 4 and Table 8, and the distribution of total receipts by broad classes of activities provided in Tables 5A and 5B are comparable to those presented in 1947 publications. For both censuses, the data on number of employees for newspaper and periodical publishing do not include newsboys or carrier boys.

## 2711—Newspapers

This industry comprises establishments engaged in publishing newspapers, or in publishing and printing newspapers. These establishments carry on the various operations necessary for issuing newspapers, including the gathering of news, and the preparation of editorials and advertisements, but may or may not perform their own printing. Job printing is frequently carried on by establishments engaged in publishing and printing

newspapers, but even though the job printing may be of major importance, such establishments are included in this industry.

Establishments not engaged in publishing newspapers but which print or lithograph newspapers for publishers, are classified in Industry 2751, Commercial Printing, or Industry 2761, Lithographing. News syndicates are classified in service industries. Establishments primarily engaged in publishing shopping news are classified in Industry 2741, Miscellaneous Publishing. For a detailed list of the types of receipts classified as primary to this industry, refer to Table 6A, product codes 2711101 to 2711298.

For the purposes of the Census of Manufactures, the term "newspaper" has been treated, in 1954 as in 1947, as including those publications issued at regular frequencies which contain news of interest to the general public. Publications so qualifying are usually printed on newsprint by letterpress process and range in frequency of issue from "around the clock" to weekly, with rare instances of lesser frequency.

Publications have been classified as periodicals (Industry 2721) rather than as newspapers if their news and editorial presentations do not appear to be directed to the public at large. Among the types of publications sometimes considered newspapers, but treated in the Census as periodicals, are the following: trade journals; house organs; local church or school papers and like publications with very limited or specialized news treatment. Generally, publications issued by nonprofit organizations, (educational, religious, charitable, labor, business, professional, etc.), are classified as periodicals.

Two report forms were used to canvass this industry. Form MC-27A was used to collect data in detail from the larger establishments, whereas Form MC-27C was used generally to collect a minimum of information from establishments employing fewer than six employees. In accordance with the general Census of Manufactures rules, no data were tabulated from establishments operated entirely by the owner or owners without employees.

Since these requisites do not necessarily conform with classification tests applied elsewhere, the data presented in such tables as 6A through 6E and in Tables 7A and 7B may not agree with other published data for the newspaper industry. Differences are most noticeable in the detailed classification of dollar receipts and average circulation by frequency of issue. For example, the data shown for daily, semi-weekly, etc., newspapers do not include trade, business and like papers dealing with specialized news and subject matter (classified in this report with periodicals, Industry 2721), where other data may treat such publications as newspapers.

Total receipts of Industry 2711 in 1954 amounted to \$3,091 million. This included receipts from primary activities (newspaper publishing) valued at \$2,926 million, receipts from secondary activities valued at \$152 million, and miscellaneous receipts of \$12 million. In 1954, newspaper subscriptions and sales accounted for 29 percent of the industry's total newspaper publishing receipts, excluding receipts not specified by kind, with net advertising receipts accounting for the balance of 71 percent. The corresponding ratios in 1947 were 33 percent and 67 percent respectively.

Industry 2711 receipts from newspaper publishing in 1954 represented 95 percent of its total receipts (primary and secondary). In 1947, this primary activity specialization ratio was 94 percent. Receipts from secondary activities of Industry 2711 in 1954 consisted mainly of commercial job printing (letterpress and gravure), \$90 million; periodical publishing, \$18 million; book and pamphlet printing, \$17 million; miscellaneous publish-



ing, \$9 million; lithographing (including offset printing), \$7 million; and photograving, \$5 million.

Industry 2711 receipts from newspaper publishing in 1954 represented 100 percent of the newspaper publishing receipts, valued at \$2926 million, reported by all industries. This coverage ratio in 1947 was also 100 percent.

#### 2721—Periodicals

This industry comprises establishments primarily engaged in publishing periodicals, or in preparing, publishing, and printing periodicals. These establishments carry on the various operations necessary for issuing periodicals, but may or may not perform their own printing. Establishments not engaged in publishing periodicals, but which print or lithograph periodicals for publishers, are classified in Industry 2751, Commercial Printing, or 2761, Lithographing, depending on the primary printing process employed. For a detailed list of the types of receipts classified as primary to Industry 2721, refer to Table 6A, product codes 2721111 to 2721298.

Data on the periodical publishing activities of non-profit organizations (religious, educational, social, charitable, etc.) have been included to the extent that the employees of such organizations were covered under the Social Security system.

For the distinction between newspapers and periodicals which has been applied in classifying establishments for the Census of Manufactures, see the foregoing statements under Industry 2711, Newspapers. To provide uniform classification of periodicals by type, 28 types of periodical codes (see Table 6F) were included with the report forms mailed to all periodical publishers employing one or more persons.

Total receipts of Industry 2721 in 1954 amounted to \$1441 million. This included receipts from primary activities (periodical publishing) valued at \$1364 million, receipts from secondary activities valued at \$74 million, and miscellaneous receipts of \$3 million. In 1954 receipts from periodical subscriptions and sales accounted for 38 percent of the industry's total periodical publishing receipts excluding receipts not specified by kind, with net advertising receipts accounting for the balance of 62 percent. The corresponding ratios in 1947 were 40 percent and 60 percent, respectively.

Industry 2721 receipts from periodical publishing in 1954 represented 95 percent of its total receipts (primary and secondary). In 1947, this primary activity specialization ratio was 94 percent. Secondary activities of Industry 2721 in 1954 consisted mainly of book and pamphlet publishing, \$51 million; commercial job printing (letterpress and gravure), \$9 million; and miscellaneous publishing, \$7 million.

Industry 2721 receipts from periodical publishing in 1954 represented 97 percent of the receipts from periodical publishing, valued at \$1413 million, reported by all industries. This coverage ratio in 1947 was 98 percent. Other industries reporting receipts from periodical publishing in 1954 consisted mainly of Industry 2711, Newspapers, \$18 million; Industry 2731, Books, Publishing and Printing, \$11 million; and Industry 2741, Miscellaneous Publishing, \$6 million.

**2731—Books; Publishing and Printing** (Full Standard Industrial Classification Title: Books; Publishing, Publishing and Printing)

This industry comprises establishments primarily engaged in publishing only, or in publishing and printing, books and pamphlets. Establishments primarily engaged in printing, or in printing and binding (but not publishing) books and pamphlets are classified in Industry 2732, Book Printing. Establishments primarily engaged in binding books published or printed in the same establishment are classified in this industry, but establishments primarily engaged in binding books printed elsewhere are classified in Industry 2781, Bookbinding.

Industry 2731 also includes data on book publishing activities obtained from non-profit organizations whose employees are covered under the Social Security system and were able to report their book publishing operations as a separate establishment.

For a detailed list of the type of receipts classified as primary to Industry 2731, refer to Table 6A, product codes 2731011 to 2731081.

The data presented in Tables 6A and 6G for number of books sold represent the total number of books sold (shipped and billed) by publishers during 1954, without regard to whether these books were actually published or printed in 1954. The value figures shown in these tables and in Table 9 are net publishers' receipts after deducting cash discounts, returns and allowances; i.e., they represent net sales.

"Books" are considered to include all collections of 64 or more pages bound by any method, and all hardbound collections, irrespective of the number of pages. (The designation "hardbound" describes books which are bound with paper over board, cloth over board, and artificial or genuine leather.) "Pamphlets" are defined to mean any collection to be offered for sale of at least 8 but less than 64 paperbound pages. The distinction observed between original editions and reprint editions can be summarized as follows: "original editions" include books published by the publisher who first converts a manuscript into published form, whereas "reprint editions" include books published by a publisher who, by arrangement with the original publisher, republishes a book.

Total receipts of Industry 2731 in 1954 amounted to \$665 million. This included receipts from primary activities (book and pamphlet publishing) valued at \$596 million, secondary activities valued at \$59 million, and miscellaneous receipts of \$10 million.

Industry 2731 receipts from book and pamphlet publishing in 1954 represented 91 percent of its total receipts from primary and secondary activities. In 1947, this primary activity specialization ratio was 92 percent. Secondary activities of Industry 2731 in 1954 consisted mainly of book and pamphlet printing and bookbinding, \$14 million; miscellaneous publishing, \$14 million; and periodical publishing, \$11 million.

Industry 2731 receipts from book and pamphlet publishing in 1954 represented 90 percent of the receipts from book and pamphlet publishing, valued at \$665 million, reported by all industries. This coverage ratio in 1947 was 93 percent. Other industries reporting receipts from book and pamphlet publishing in 1954 consisted mainly of Industry 2721, Periodicals, \$51 million; Industry 2741, Miscellaneous Publishing, \$8 million; and Industry 2751, Commercial Printing, \$3 million.

#### 2732—Book Printing

This industry comprises establishments primarily engaged in printing only or in printing and binding books and pamphlets, but not engaged in publishing. Establishments primarily engaged in publishing, or in publishing and printing books and pamphlets are classified in Industry 2731. Establishments engaged in both printing and binding books, but primarily binding books printed elsewhere are classified in Industry 2781. For a detailed list of the types of receipts classified as primary to Industry 2732, refer to Table 6A, product codes 2732000 to 2732053.

Establishments classified in Industry 2732 are identical in character to some establishments primarily engaged in commercial printing (Industry 2751) and in lithographing (Industry 2761). The distinction is that all the establishments classified in Industry 2732 derive the greater part of their revenue from printing books and pamphlets, while such operations are secondary activities for establishments classified in Industries 2751 and 2761.

Total receipts of industry 2732 in 1954 amounted to \$221 million. This included receipts from primary activities (book printing) valued at \$169 million, receipts from secondary activities valued at \$52 million, and miscellaneous receipts valued at \$1 million.

Industry 2732 receipts from book printing in 1954 represented 76 percent of its total receipts from primary and secondary activities. In 1947, this primary activity specialization ratio was 77 percent. Secondary activities of Industry 2732 in 1954 consisted mainly of commercial job printing (letterpress and

gravure), except books, \$23 million; lithographing, \$15 million; binding of books printed elsewhere, \$5 million; and typesetting, \$4 million.

Industry 2732 receipts from book printing in 1954 represented 55 percent of the receipts from book printing, valued at \$305 million, reported by all industries. This coverage ratio in 1947 was 44 percent. Other industries reporting receipts from book printing in 1954 consisted mainly of Industry 2751, Commercial Printing, \$72 million; Industry 2761, Lithographing, \$26 million; Industry 2711, Newspapers, \$17 million; and Industry 2731, Books: Publishing and Printing, \$14 million. Excluded from the \$305 million is the value of books published and printed in the same establishment and classified in Industry 2731, Books: Publishing and Printing.

#### 2741—Miscellaneous Publishing

This industry comprises establishments primarily engaged in publishing such products as maps, atlases, sheet music, directories, almanacs; catalogs; globe covers; racing forms; and shopping news or engaged in miscellaneous publishing activities, not elsewhere classified, whether or not engaged in printing. Establishments primarily engaged in printing such products and not engaged in publishing are classified in Industry 2751, Commercial Printing, or Industry 2761, Lithographing, depending on the primary printing process employed. Establishments primarily engaged in publishing greeting cards are classified in Industry 2771, Greeting Cards.

Establishments primarily engaged in offering financial, credit, or other business services and which may publish directories as part of this service are not included in this industry but are classified as service industries (Census of Business). For a

detailed list of the types of publications classified as primary to Industry 2741, refer to Table 6A, product codes 2741010 to 2741098.

Total receipts of Industry 2741 in 1954 amounted to \$231 million. This included receipts from primary activities (miscellaneous publishing) valued at \$190 million, receipts from secondary activities valued at \$32 million, and miscellaneous receipts valued at \$9 million.

Industry 2741 receipts from miscellaneous publishing in 1954 represented 85 percent of its total receipts from primary and secondary activities. In 1947, this primary activity specialization ratio was 93 percent. The lower primary specialization ratio in 1954 reflects in large part the increased diversification of publishing and printing activities that has occurred in this industry since 1947. Secondary activities of this industry in 1954 consisted mainly of commercial printing (letterpress and gravure), \$13 million; periodical publishing, \$6 million; book and pamphlet publishing, \$7 million; and lithographing, \$4 million.

Industry 2741 receipts from miscellaneous publishing in 1954 represented 82 percent of the receipts from miscellaneous publishing, valued at \$231 million reported by all industries. This coverage ratio in 1947 was 78 percent. Except for Industry 2751, Commercial Printing, with receipts for miscellaneous publishing amounting to \$4 million, virtually all of the miscellaneous publishing activity conducted in other industries was performed by the publishing industries covered in this report. (Industry 2731, Books: Publishing and Printing, \$14 million; Industry 2711, Newspapers, \$9 million; and Industry 2721, Periodicals, \$7 million.)

The general statistics (employment, payrolls, value of shipments, cost of materials, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products, and, for that matter, their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (Tables 1-4) with product statistics (Table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in Table 5A which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry made as secondary products by establishments classified in other industries.



## MANUFACTURES—INDUSTRY STATISTICS

Table 1.—GENERAL STATISTICS FOR THE UNITED STATES: 1954 AND EARLIER YEARS  
(For explanation of column captions see Introduction)

Industry and census year	Establishments, number	All employees		Production workers		Value added by manufacture <sup>2</sup> (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments (receipts) <sup>3</sup> (\$1,000)
		Number <sup>1</sup>	Payroll (\$1,000)	Number <sup>1</sup>	Wages (\$1,000)			
Newspapers (S.I.C. 2711):								
1954.....	8,646	281,799	1,262,793	148,941	667,058	2,144,223	946,815	3,091,027
1953 <sup>4</sup> .....	(NA)	275,974	1,200,594	145,266	653,461	2,042,012	912,979	2,954,991
1952 <sup>4</sup> .....	(NA)	275,537	1,123,790	149,169	611,928	1,916,846	846,283	2,763,129
1951 <sup>4</sup> .....	(NA)	273,824	1,056,984	149,857	577,579	1,780,423	792,810	2,573,233
1950 <sup>4</sup> .....	(NA)	267,347	1,000,906	146,052	549,432	1,705,628	729,460	2,435,088
1949 <sup>4</sup> .....	(NA)	262,108	949,737	137,120	489,810	1,599,745	725,537	2,325,282
1947*.....	8,340	234,375	743,854	118,116	372,752	1,405,709	511,593	1,917,302
1939 <sup>5</sup> .....	7,278	}	}	96,731	164,041	673,802	231,144	904,946
1937.....	6,980			109,882	185,836	701,241	221,094	922,335
1935.....	6,728			99,003	164,456	632,578	180,472	813,050
1933.....	5,631			(NA)	(NA)	90,441	138,926	550,259
1931.....	7,526	}	}	97,937	189,749	712,343	235,299	947,642
1929.....	8,599			105,658	211,393	844,936	304,962	1,149,898
1927.....	8,116			98,145	194,744	743,333	305,982	1,049,315
1925 <sup>7</sup> .....	7,977			94,317	180,084	674,445	296,766	971,211
Periodicals (S.I.C. 2721):								
1954.....	2,045	62,428	312,695	16,348	68,218	795,543	645,416	1,440,961
1953 <sup>4</sup> .....	(NA)	58,282	290,030	13,440	60,915	733,830	568,139	1,301,969
1951 <sup>4</sup> .....	(NA)	59,440	275,066	16,320	63,175	704,342	553,966	1,258,308
1950 <sup>4</sup> .....	(NA)	71,735	305,612	22,422	82,128	690,048	485,009	1,175,057
1949.....	(NA)	73,867	288,783	21,357	75,133	669,430	501,832	1,171,262
1947*.....	2,166	68,957	235,706	19,472	64,453	638,384	420,984	1,059,368
1939 <sup>7</sup> .....	2,337	(NA)	(NA)	15,411	25,001	262,999	156,953	419,952
Books, publishing and printing (S.I.C. 2731):								
1954.....	814	34,704	144,757	8,802	29,250	394,702	270,529	665,232
1952 <sup>4</sup> .....	(NA)	42,592	155,506	8,775	26,285	421,608	308,614	730,222
1950 <sup>4</sup> .....	(NA)	39,939	127,611	8,186	23,889	356,279	263,090	619,369
1949 <sup>4</sup> .....	(NA)	33,036	105,775	7,543	24,182	337,250	249,471	586,721
1947.....	648	39,942	104,278	8,092	20,142	262,903	200,948	463,851
1939 <sup>7</sup> .....	554	(NA)	(NA)	6,158	8,549	103,708	50,941	154,649
Book printing (S.I.C. 2732):								
1954.....	598	22,695	100,439	19,090	78,356	144,692	76,635	221,328
1953 <sup>4</sup> .....	(NA)	17,999	76,245	15,220	60,370	115,647	47,925	163,572
1952 <sup>4</sup> .....	(NA)	17,530	76,750	15,000	60,100	109,913	65,559	175,472
1950 <sup>4</sup> .....	(NA)	16,369	64,091	14,028	50,516	83,718	48,074	131,792
1949 <sup>4</sup> .....	(NA)	15,495	53,682	13,446	44,530	78,469	36,326	114,795
1947*.....	157	12,022	41,735	10,246	32,258	63,004	29,299	92,303
1939 <sup>7</sup> .....	199	(NA)	(NA)	7,628	11,515	24,477	11,818	36,295
Miscellaneous publishing (S.I.C. 2741):								
1954.....	946	18,378	73,174	5,271	24,090	149,310	81,931	231,242
1953 <sup>4</sup> .....	(NA)	15,199	62,350	4,242	16,461	110,020	36,759	146,779
1947.....	611	12,036	35,200	3,430	8,475	72,151	31,192	103,343
1939 <sup>8</sup> .....	175	(NA)	(NA)	477	640	12,560	5,393	17,953

NA Not available.

<sup>1</sup>For the period 1949-1954, figures are based on employment for the payroll periods ended nearest the 15th of March, May, August and November. For 1947, they represent the average of 12 monthly figures. For earlier years, the production worker average was calculated as in 1947, but the figure for all employees represents the sum of the annual average number of production workers and the number of nonproduction workers reported for one payroll period (usually in October).

<sup>2</sup>Value of products and receipts less cost of materials, supplies, fuel, electric energy and contract work. See Introduction, "Value Added by Manufacture."

<sup>3</sup>See Introduction, "Value of Shipments."

<sup>4</sup>The figures for 1949-1953 represent estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period. Estimates with a standard error in excess of 15 percent generally have been omitted from this table.

<sup>5</sup>The figures for 1939 are not entirely comparable with those for earlier years. Value added by manufacture for 1939 on a basis comparable with earlier years was \$677.7 million.

<sup>6</sup>Does not include cost of contract work.

<sup>7</sup>Comparable figures are not available for earlier years.

<sup>8</sup>The "Miscellaneous publishing" industry classification was established for the first time in the 1947 Census. The figures for 1939 were derived by reclassifying 1939 Census reports. Insufficient 1939 data and the difficulties involved in reclassifying these reports account for the apparent understatement of the 1939 figures.

Table 2.—GENERAL STATISTICS BY REGIONS AND STATES: 1954 AND 1947  
(For explanation of column captions see Introduction)

Industry, region, and State <sup>1</sup>	1954										1947		
	Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
	Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
Newspapers (S.I.C. 2711), total.....	8,646	1,637	281,799	1,262,793	148,941	281,198	667,058	2,144,223	946,815	3,091,027	75,536	234,375	1,405,709
New England.....	390	123	20,747	93,156	10,852	19,904	49,559	146,341	57,728	204,069	3,874	17,857	103,107
Maine.....	48	11	1,443	5,308	823	1,567	2,884	9,452	2,656	12,108	389	1,364	6,892
New Hampshire.....	42	10	824	3,319	493	962	1,911	5,482	1,216	6,698	106	786	3,780
Vermont.....	23	10	609	2,225	358	718	1,217	3,865	629	4,495	173	647	2,571
Massachusetts.....	191	55	12,198	57,486	6,429	11,467	30,824	85,959	38,056	124,015	1,767	10,574	63,021
Rhode Island.....	18	7	1,491	6,748	688	1,283	3,250	11,047	4,518	15,565	187	1,253	7,614
Connecticut.....	68	30	4,180	18,069	2,059	3,903	9,470	30,534	10,651	41,186	1,250	3,233	19,229
Middle Atlantic.....	1,157	298	61,935	303,560	32,031	60,336	154,601	500,258	227,019	727,277	14,311	56,606	342,856
New York.....	561	124	34,120	177,424	17,559	30,516	87,666	293,458	135,039	428,496	5,701	32,436	207,341
New Jersey.....	200	49	7,401	33,775	3,648	7,076	17,546	56,990	21,118	78,109	2,051	6,093	34,763
Pennsylvania.....	396	125	20,414	92,360	10,823	22,742	49,388	149,809	70,862	220,672	6,558	18,077	100,752
East North Central.....	1,803	376	63,474	300,909	33,066	61,437	159,380	503,059	225,892	728,941	23,408	50,908	323,116
Ohio.....	381	98	17,415	85,208	9,320	17,456	43,663	145,129	63,699	208,829	6,705	13,112	87,177
Indiana.....	286	61	7,742	32,162	4,122	7,775	17,819	59,234	20,900	80,135	2,458	6,350	37,088
Illinois.....	500	98	19,642	94,839	10,275	18,265	50,341	144,078	74,937	219,016	5,488	16,758	105,570
Michigan.....	346	70	11,707	60,720	5,881	11,300	32,859	105,290	44,110	149,390	7,094	9,055	64,382
Wisconsin.....	290	49	6,966	27,977	3,466	6,638	14,697	49,326	22,243	71,570	1,661	5,633	28,899
West North Central.....	1,678	188	28,167	110,987	16,123	29,951	62,325	200,380	86,969	287,349	6,712	24,535	138,510
Minnesota.....	343	34	6,027	23,280	3,343	5,696	12,469	44,600	18,452	63,052	1,773	5,419	29,426
Iowa.....	343	44	5,628	21,507	3,188	6,027	11,643	39,424	12,702	52,126	1,320	4,953	29,302
Missouri.....	313	39	7,629	33,775	4,640	8,507	20,278	56,295	32,768	89,063	882	7,142	45,169
North Dakota.....	89	9	995	3,557	651	1,251	2,290	6,315	1,702	8,018	379	771	4,038
South Dakota.....	113	10	1,045	3,559	647	1,281	2,141	6,207	2,348	8,555	473	805	4,227
Nebraska.....	200	17	2,527	9,577	1,427	2,850	5,262	19,331	7,343	26,674	905	2,265	12,838
Kansas.....	277	35	4,313	15,730	2,224	4,337	8,239	28,206	11,651	39,858	977	3,180	13,510
South Atlantic.....	899	189	31,936	128,173	17,257	33,650	68,766	221,522	106,698	328,220	7,049	24,782	140,371
Delaware.....	17	4	676	3,262	415	742	2,047	4,784	1,480	6,265	132	474	2,253
Maryland.....	70	16	3,863	16,947	1,996	3,819	8,400	29,175	14,127	43,301	419	3,480	21,691
District of Columbia.....	20	11	4,201	17,839	2,467	4,068	9,835	30,392	19,107	49,500	520	3,667	22,402
Virginia.....	123	26	3,867	15,272	2,113	4,092	8,101	26,506	13,302	39,809	876	2,850	16,836
West Virginia.....	95	17	2,517	9,173	1,280	2,453	4,836	15,075	5,588	20,934	846	2,137	10,753
North Carolina.....	164	42	4,350	16,576	2,533	4,816	9,043	28,104	11,712	39,817	715	3,098	16,349
South Carolina.....	82	14	2,019	7,089	1,017	1,946	3,496	13,271	5,221	18,492	515	1,282	6,563
Georgia.....	162	22	3,661	14,328	2,156	4,279	8,858	27,167	14,381	41,549	941	3,287	17,112
Florida.....	166	37	6,778	27,685	3,275	7,435	14,145	47,044	21,507	68,551	2,081	4,507	26,412
East South Central.....	489	64	11,108	45,143	6,386	12,787	25,294	81,286	36,172	117,459	2,205	8,898	49,951
Kentucky.....	145	15	2,724	11,782	1,509	3,173	6,150	19,515	9,732	29,248	552	2,372	12,499
Tennessee.....	123	17	4,136	16,947	2,312	4,372	9,339	31,621	13,624	45,245	572	3,223	20,284
Alabama.....	115	16	2,836	11,645	1,699	3,365	7,142	21,845	9,903	31,749	826	2,176	12,246
Mississippi.....	106	16	1,411	4,768	865	1,876	2,662	8,304	2,911	11,217	255	1,127	4,922
West South Central.....	914	129	20,948	81,434	11,556	24,012	44,667	151,624	66,557	218,182	7,070	16,963	97,854
Arkansas.....	118	12	1,800	6,034	1,029	1,992	3,370	10,268	4,166	14,435	237	1,375	7,564
Louisiana.....	99	16	3,043	12,666	1,725	3,278	6,891	24,650	11,839	36,490	824	2,463	16,298
Oklahoma.....	181	25	3,669	13,350	2,068	3,911	7,262	25,647	9,362	35,010	780	3,127	17,161
Texas.....	516	76	12,435	49,383	6,732	14,830	27,143	91,057	41,188	132,246	5,228	9,998	56,831
Mountain.....	470	75	9,703	39,025	5,664	10,388	23,564	70,212	28,105	98,317	4,005	7,492	41,392
Montana.....	81	16	1,283	5,257	835	1,488	3,549	8,455	2,776	11,232	254	1,006	5,024
Idaho.....	59	8	725	2,933	459	878	1,811	5,413	1,292	6,706	255	723	4,152
Wyoming.....	39	7	510	1,991	235	447	1,012	3,290	855	4,146	83	386	1,849
Colorado.....	139	22	3,417	14,025	1,988	3,485	8,412	22,398	13,339	35,738	1,203	2,246	12,640
New Mexico.....	43	6	791	3,028	450	809	1,800	5,673	1,660	7,333	877	519	2,761
Arizona.....	51	9	1,532	6,000	845	1,634	3,420	12,591	3,821	16,413	1,056	1,112	6,777
Utah.....	39	4	920	3,725	533	970	2,356	8,347	3,649	11,997	116	1,166	6,331
Nevada.....	19	3	522	2,062	316	673	1,200	4,041	710	4,751	159	334	1,858
Pacific.....	846	195	33,777	160,404	16,003	28,729	78,899	269,539	111,672	381,211	6,898	26,334	168,552
Washington.....	179	27	5,147	23,415	2,605	4,661	12,405	40,750	15,325	56,076	1,402	4,147	29,014
Oregon.....	112	25	3,408	15,049	1,704	3,003	8,225	25,116	10,712	35,828	526	2,879	15,685
California.....	555	143	25,222	121,939	11,693	21,063	58,268	203,672	85,634	289,306	4,969	19,308	123,853
Periodicals (S.I.C. 2721), total.....	2,045	370	62,428	312,695	16,348	29,614	68,218	795,543	645,416	1,440,961	14,542	68,957	638,384
New England.....	99	9	1,618	7,156	109	188	352	10,421	21,478	31,899	114	3,538	28,197
Massachusetts.....	53	5	481	2,203	63	126	218	4,652	2,622	7,275	38	912	6,334
Connecticut.....	32	4	1,086	4,781	46	62	134	5,413	18,561	23,975	75	2,520	22,455
Middle Atlantic.....	724	166	34,593	190,507	7,446	13,679	33,710	522,023	472,776	994,801	6,130	34,364	364,109
New York.....	577	140	26,831	151,492	4,346	7,556	18,230	413,864	385,918	799,784	3,827	25,747	280,318
New Jersey.....	49	7	522	2,028	107	235	482	5,366	4,030	9,397	62	257	3,367
Pennsylvania.....	98	19	7,240	36,987	2,992	5,886	14,997	102,793	82,826	185,620	2,239	8,360	80,424
East North Central.....	459	100	13,306	60,461	5,134	9,150	20,127	142,824	74,940	217,764	5,444	17,308	154,159
Ohio.....	84	24	5,447	23,338	2,768	5,111	11,464	65,609	30,207	95,816	3,411	8,629	86,413
Indiana.....	24	5	475	1,618	221	443	724	4,107	1,449	5,556	163	742	6,267
Illinois.....	257	59	6,282	31,114	1,808	2,980	6,554	63,798	34,808	98,607	1,687	6,903	54,738
Michigan.....	57	6	530	2,159	124	200	458	5,220	5,939	11,159	87	475	3,942
Wisconsin.....	37	6	571	2,230	212	414	926	4,088	2,536	6,625	94	559	2,799

See footnotes at end of table.



## MANUFACTURES—INDUSTRY STATISTICS

Table 2.—GENERAL STATISTICS BY REGIONS AND STATES: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Industry, region, and State <sup>1</sup>	1954											1947	
	Establishments, number		All employees		Production workers			Value added by manufacture	Cost of materials, etc.	Value of shipments	Capital expenditures, new	All employees, number	Value added by manufacture
	Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)		(\$1,000)
Periodicals (S.I.C. 2721)—Continued													
West North Central.....	165	31	5,161	21,324	2,087	4,040	8,675	48,970	24,221	73,192	1,873	4,848	32,386
Minnesota.....	53	9	635	2,735	207	314	597	5,290	3,043	8,334	130	600	4,526
Iowa.....	22	8	2,480	11,244	1,168	2,407	5,640	28,782	13,098	41,881	1,262	1,609	13,733
Missouri.....	55	11	1,697	6,200	576	1,092	1,991	12,365	7,154	19,520	389	1,768	8,523
Nebraska.....	12	2	199	712	95	183	358	1,562	406	1,968	48	168	(D)
South Atlantic.....	165	27	3,384	15,759	287	321	711	31,649	28,650	60,300	276	3,262	23,346
Maryland.....	13	3	252	876	6	12	20	1,357	1,314	2,672	(D)	211	1,181
District of Columbia.....	50	17	2,280	11,133	204	178	392	23,238	23,182	46,421	148	2,405	17,635
Virginia.....	14	3	273	1,027	10	25	51	1,810	1,260	3,071	58	99	(D)
North Carolina.....	20	1	137	486	10	16	36	815	478	1,294	23	125	599
Georgia.....	24	3	264	1,688	37	62	134	3,149	1,585	4,735	19	192	2,037
Florida.....	31	...	121	410	16	26	75	1,073	623	1,696	18	108	748
East South Central.....	50	10	1,136	3,924	357	677	1,296	8,823	5,472	14,296	191	1,897	10,668
Kentucky.....	15	3	186	661	20	37	67	1,194	802	1,997	42	201	900
Tennessee.....	19	5	620	1,788	186	350	530	3,161	2,183	5,344	39	1,323	7,165
Alabama.....	11	2	317	1,450	150	289	698	4,369	2,280	6,649	109	352	2,502
West South Central.....	113	8	935	4,056	291	424	831	9,604	4,648	14,253	154	850	5,446
Oklahoma.....	10	1	263	1,327	143	230	484	3,412	490	3,903	16	212	1,698
Texas.....	79	6	566	2,301	130	162	281	5,163	3,522	8,685	124	452	2,884
Mountain.....	51	2	588	2,044	316	538	1,025	4,231	1,446	5,677	70	808	2,983
Colorado.....	22	2	437	1,597	267	447	888	3,180	919	4,100	59	631	2,186
Pacific.....	219	17	1,702	7,450	318	595	1,488	16,994	11,782	28,777	289	2,082	17,090
California.....	181	17	1,547	6,901	295	552	1,409	15,763	10,901	26,666	283	1,679	14,572
Books, publishing and printing (S.I.C. 2731), total.....	814	197	34,704	144,757	8,802	17,098	29,250	394,702	270,529	665,232	7,558	39,942	262,903
New England.....	57	10	1,564	7,056	206	364	576	28,807	19,487	48,294	777	2,674	18,710
Massachusetts.....	39	8	1,412	6,516	194	343	520	27,694	18,542	46,236	742	2,440	17,882
Connecticut.....	10	2	123	480	11	20	55	943	788	1,732	27	(D)	(D)
Middle Atlantic.....	392	98	17,949	76,833	3,074	5,722	9,993	219,856	150,730	370,587	3,028	24,005	159,820
New York.....	333	83	15,929	58,879	2,150	3,987	7,193	200,075	137,309	337,385	2,840	21,830	146,478
New Jersey.....	20	5	346	1,220	110	169	293	4,056	2,733	6,789	56	41	274
Pennsylvania.....	39	10	1,673	6,733	813	1,565	2,507	15,724	10,687	26,412	131	2,134	13,068
East North Central.....	169	55	10,213	42,313	2,837	5,546	10,980	112,300	82,217	194,518	2,518	9,706	64,385
Ohio.....	32	10	1,437	5,766	591	1,168	2,212	11,702	7,087	18,790	295	1,429	6,677
Indiana.....	14	3	538	1,861	175	365	590	2,646	3,083	5,730	(D)	220	1,313
Illinois.....	88	31	5,887	23,199	600	1,169	1,939	76,393	47,944	124,337	1,591	6,353	46,088
Michigan.....	20	5	268	1,090	74	155	321	2,324	1,774	4,099	(D)	169	(D)
Wisconsin.....	15	6	2,080	10,397	1,397	2,688	5,917	19,232	22,328	41,561	387	1,535	(D)
West North Central.....	61	18	3,025	11,747	1,867	3,698	5,848	20,355	9,269	29,625	332	1,999	12,376
Minnesota.....	23	5	1,526	6,135	1,080	2,200	3,542	11,050	2,780	13,831	113	1,326	(D)
Iowa.....	10	2	347	1,167	195	425	401	1,539	827	2,367	(D)	63	(D)
Missouri.....	17	8	825	3,091	417	751	1,424	5,484	4,613	10,097	109	470	3,101
South Atlantic.....	41	5	379	1,365	94	188	231	3,152	2,626	5,778	130	473	2,101
Maryland.....	7	2	104	439	...	...	...	1,253	1,587	2,841	30	201	(D)
Virginia.....	10	1	146	426	94	188	231	738	185	924	20	(D)	(D)
East South Central.....	15	1	149	445	48	95	123	1,235	645	1,881	(D)	242	1,039
West South Central.....	26	5	922	2,739	617	1,374	1,246	4,371	2,514	6,886	(D)	345	1,323
Texas.....	18	4	806	2,319	584	1,307	1,152	3,687	2,107	5,795	157	237	(D)
Mountain.....	4	...	9	19	...	...	...	32	24	50	...	(D)	(D)
Pacific.....	49	5	490	2,237	56	108	251	4,591	3,014	7,606	148	(D)	(D)
California.....	43	4	430	1,990	14	23	42	4,178	2,926	7,105	122	460	(D)
Book printing (S.I.C. 2732), total.....	598	153	22,695	100,439	19,090	37,927	78,356	144,692	76,635	221,328	7,243	12,022	63,004
New England.....	53	18	3,573	14,400	3,093	5,855	11,844	19,509	8,963	28,473	1,240	1,710	8,392
Massachusetts.....	31	10	2,986	11,894	2,595	4,899	9,956	15,791	7,190	22,981	1,117	408	2,183
Connecticut.....	9	4	178	721	144	318	512	1,281	462	1,743	44	(D)	(D)

See footnotes at end of table.

## NEWSPAPERS, PERIODICALS, BOOKS, AND MISCELLANEOUS PUBLISHING

27A-7

Table 2.—GENERAL STATISTICS BY REGIONS AND STATES: 1954 AND 1947—Continued

(For explanation of column captions see Introduction)

Industry, region, and State <sup>1</sup>	1954											1947	
	Establishments, number		All employees		Production workers			Value added by manufacture	Cost of materials, etc.	Value of shipments	Capital expenditures, new	All employees, number	Value added by manufacture
	Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
								(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)		(\$1,000)
Book printing—Con.													
Middle Atlantic .....	236	57	8,246	37,299	6,973	13,853	29,319	54,562	27,475	82,037	2,200	4,661	26,449
New York.....	169	38	5,287	25,137	4,436	8,799	19,374	37,024	21,017	58,042	1,018	3,930	22,515
New Jersey.....	22	4	857	3,811	730	1,372	3,067	5,124	1,604	6,729	444	135	936
Pennsylvania.....	45	15	2,101	8,350	1,806	3,680	6,877	12,412	4,853	17,266	738	596	2,998
East North Central.....	126	37	6,242	29,457	5,211	10,348	22,716	42,257	26,235	68,493	2,125	4,422	22,601
Ohio.....	26	7	696	2,917	605	1,191	2,381	4,702	2,693	7,396	249	697	3,014
Indiana.....	17	8	2,606	11,820	2,190	4,371	9,535	16,389	3,880	26,270	(D)	2,354	11,760
Illinois.....	43	14	1,735	9,028	1,452	2,819	6,833	12,601	7,301	19,903	678	412	2,773
West North Central.....	37	5	676	2,930	512	1,019	1,912	4,230	2,355	6,585	187	683	2,663
Missouri.....	11	4	382	1,395	297	576	911	2,209	626	2,835	40	363	1,381
South Atlantic.....	56	21	1,577	6,277	1,328	2,632	4,584	9,071	4,843	13,914	650	427	2,222
Maryland.....	9	3	157	687	129	266	461	1,110	777	1,887	22		
District of Columbia.....	17	4	250	1,205	194	385	770	1,657	1,084	2,741	420		
Virginia.....	6	3	309	1,008	275	549	832	1,461	917	2,378	69		
North Carolina.....	5	4	195	588	163	325	475	766	504	1,120	34		
Georgia.....	7	6	557	2,389	481	935	1,775	3,494	1,262	4,757	74		
East South Central.....	14	5	1,683	7,294	1,405	3,072	5,865	10,312	3,882	14,194	(D)	(D)	(D)
West South Central.....	25	3	301	1,055	234	507	736	1,806	1,030	2,837	(D)	(D)	(D)
Texas.....	16	1	128	368	101	246	264	721	311	1,033	29	(D)	(D)
Mountain.....	9	1	50	161	39	77	125	390	308	698	42	(D)	(D)
Pacific.....	42	6	344	1,564	290	559	1,252	2,552	1,541	4,094	193	119	677
California.....	38	6	319	1,466	273	520	1,190	2,401	1,470	3,871	165	(D)	(D)
Miscellaneous publishing (S.I.C. 2741), total.....	946	150	18,378	73,174	5,271	9,570	24,090	149,310	81,931	231,242	3,270	12,036	72,151
New England.....	54	16	1,816	6,775	1,013	1,868	3,337	11,248	6,152	17,400	318	1,116	4,337
Massachusetts.....	34	12	1,468	5,568	856	1,703	3,021	8,968	5,092	14,061	207	905	3,240
Middle Atlantic.....	387	55	6,896	29,936	1,304	2,458	4,620	62,544	22,958	85,502	1,599	4,839	34,357
New York.....	315	43	5,870	26,330	1,025	1,873	3,690	55,249	19,260	74,508	977	4,380	31,468
New Jersey.....	34	5	409	1,782	98	201	388	4,099	2,172	6,272	449	187	1,686
Pennsylvania.....	38	7	616	1,824	181	384	541	3,194	1,526	4,721	172	272	1,203
North Central.....	282	52	6,634	25,750	1,982	3,588	12,938	57,397	44,082	101,480	1,052	4,222	23,610
Ohio.....	39	9	873	2,925	259	406	908	5,575	2,575	8,150	(D)	654	2,903
Indiana.....	24	5	438	1,785	153	294	502	3,445	1,957	5,403	194	150	(D)
Illinois.....	75	18	2,939	14,122	1,190	2,245	10,244	35,948	33,244	69,193	385	2,197	12,919
Michigan.....	37	7	949	2,800	64	119	317	5,936	2,728	8,664	54	462	(D)
Minnesota.....	22	5	445	1,541	185	295	659	2,316	1,602	3,918	207	114	431
Iowa.....	16	1	333	1,001	10	20	21	1,162	424	1,587	62	114	602
Missouri.....	20	3	340	778	50	81	122	1,295	696	1,991	32	307	1,826
South Atlantic.....	38	5	932	3,551	232	469	696	5,207	1,598	6,806	100	(D)	(D)
District of Columbia.....	9	2	395	2,003	81	132	305	3,090	929	4,019	33	302	(D)
East South Central.....	20	2	98	316	43	88	132	521	352	873	33	(D)	(D)
West South Central.....	39	4	413	1,082	115	200	270	2,252	1,312	3,566	33	(D)	(D)
Mountain.....	20	3	252	840	129	233	365	1,616	462	2,079	15	63	312
Colorado.....	7	2	178	621	109	223	348	1,029	246	1,276	4	12	(D)
Pacific.....	106	13	1,334	4,923	450	663	1,730	8,522	5,011	13,534	116	880	5,211
Washington.....	7	2	178	674	59	89	292	982	732	1,714	(D)	95	(D)

Note: Detailed figures may not add to the totals because of independent rounding.

<sup>1</sup> Withheld to avoid disclosing figures for individual companies.<sup>2</sup> General statistics for some producing States are not shown separately in the table (see INTRODUCTION "Confidentiality of Data for Individual Companies"). Such States are shown below with the number of establishments in each State for 1954 and, in parentheses, the number of employees or the employee-size range for that State for 1954:

S.I.C. 2721, Periodicals: New England—Maine, 3 (1-19); New Hampshire, 5 (20-99); Vermont, 3 (1-19); Rhode Island, 3 (1-19); West North Central—North Dakota, 1 (1-19); South Dakota, 5 (20-99); Kansas, 17 (20-99); South Atlantic—Delaware, 1 (1-19); West Virginia, 3 (1-19); South Carolina, 9 (20-99); East South Central—Mississippi, 5 (1-19); West South Central—Arkansas, 6 (20-99); Louisiana, 18 (20-99); Mountain—Montana, 2 (20-99); Idaho, 1 (1-19); Wyoming, 2 (1-19); New Mexico, 4 (1-19); Arizona, 9 (20-99); Utah, 7 (20-99); Nevada, 4 (1-19); Pacific—Washington, 22 (20-99); Oregon, 16 (20-99).

S.I.C. 2731, Books, Publishing and Printing: New England—Maine, 2 (1-19); New Hampshire, 3 (1-19); Vermont, 1 (1-19); Rhode Island, 2 (1-19); West North Central—South Dakota, 1 (1-19); Nebraska, 3 (20-99); Kansas, 7 (250-499); South Atlantic—District of Columbia, 8 (1-19); North Carolina, 3 (1-19); Georgia, 6 (20-99); Florida, 7 (1-19); East South Central—Kentucky, 1 (1-19); Tennessee, 12 (100-249); Alabama, 2 (1-19); West South Central—Arkansas, 1 (1-19); Louisiana, 1 (1-19); Oklahoma, 6 (20-99); Mountain—Idaho, 1 (1-19); Colorado, 2 (1-19); Arizona, 1 (1-19); Pacific—Washington, 4 (20-99); Oregon, 2 (1-19).

S.I.C. 2742, Book Printing: New England—Maine, 4 (20-99); New Hampshire, 1 (1-19); Vermont, 4 (100-249); Rhode Island, 4 (100-249); East North Central—Michigan, 29 (250-499); Wisconsin, 11 (500-999); West North Central—Minnesota, 10 (20-99); Iowa, 7 (20-99); North Dakota, 1 (1-19); South Dakota, 2 (1-19); Nebraska, 3 (1-19); Kansas, 3 (100-249); South Atlantic—West Virginia, 4 (20-99); Florida, 8 (20-99); East South Central—Kentucky, 4 (20-99); Tennessee, 3 (1,425); Alabama, 6 (100-249); Mississippi, 1 (20-99); West South Central—Arkansas, 1 (20-99); Louisiana, 5 (20-99); Oklahoma, 3 (100-249); Mountain—Colorado, 4 (1-19); New Mexico, 2 (1-19); Arizona, 1 (1-19); Utah, 2 (20-99); Pacific—Washington, 2 (1-19); Oregon, 2 (1-19).

S.I.C. 2741, Miscellaneous Publishing: New England—Maine, 1 (20-99); New Hampshire, 2 (1-19); Vermont, 3 (20-99); Rhode Island, 4 (20-99); Connecticut, 10 (100-249); North Central—Wisconsin, 27 (100-249); North Dakota, 1 (1-19); South Dakota, 10 (20-99); Nebraska, 3 (20-99); Kansas, 8 (20-99); South Atlantic—Maryland, 6 (20-99); Virginia, 4 (250-499); North Carolina, 3 (20-99); South Carolina, 1 (1-19); Georgia, 3 (20-99); Florida, 12 (20-99); East South Central—Kentucky, 6 (20-99); Tennessee, 11 (20-99); Alabama, 1 (1-19); Mississippi, 2 (1-19); West South Central—Arkansas, 1 (1-19); Louisiana, 6 (20-99); Oklahoma, 9 (20-99); Texas, 23 (250-499); Mountain—Idaho, 1 (1-19); New Mexico, 1 (1-19); Arizona, 7 (20-99); Utah, 3 (20-99); Nevada, 1 (1-19); Pacific—Oregon, 8 (20-99); California, 91 (1,000-2,499).

## MANUFACTURES—INDUSTRY STATISTICS

Table 3.—DETAILED STATISTICS FOR THE UNITED STATES: 1954

(For explanation of line captions see Introduction)

Item	Newspapers (S.I.C. 2711) all estab- lishments	Periodicals (S.I.C. 2721) all estab- lishments	Books, pub- lishing and printing (S.I.C. 2731) all estab- lishments	Book printing (S.I.C. 2732)		Miscellaneous pub- lishing (S.I.C. 2741)	
				All estab- lish- ments	Establish- ments with 90% or more primary prod- uct special- ization	All estab- lish- ments	Establish- ments with 90% or more primary prod- uct special- ization
Primary product specialization ratio <sup>1</sup> .....	95	94	91	76	xxx	85	xxx
Coverage ratio <sup>2</sup> .....	100	97	90	55	xxx	82	xxx
Number of establishments, total.....	8,646	2,045	814	598	302	946	807
With 1-19 employees.....	7,009	1,675	617	445	247	796	692
With 20-99 employees.....	1,198	270	128	111	37	113	93
With 100 employees and over.....	439	100	69	42	18	37	22
All employees:							
Number (average for year).....	281,799	62,428	34,704	22,695	8,745	18,378	11,636
Payroll.....\$1,000..	1,262,793	312,695	144,757	100,439	38,335	73,174	43,272
Production workers:							
Number (average for year).....	148,941	16,348	8,802	19,090	7,548	5,271	2,443
Man-hours.....	281,198	29,614	17,098	37,927	15,289	9,570	4,128
Wages.....\$1,000..	667,058	68,218	29,250	78,356	30,733	24,090	12,772
Value added by manufacture.....do....	2,144,223	795,543	394,702	144,692	56,901	149,310	91,874
Cost of materials, etc.....do....	946,815	645,416	270,529	76,635	27,744	81,931	56,324
Value of shipments.....do....	3,091,027	1,440,961	665,232	221,328	84,646	231,242	148,199
Value added by resales.....do....	2,422	10,173	12,502	295	148	1,195	625
Cost of products bought and resold.....do....	11,491	18,624	31,208	3,336	2,359	2,121	1,165
Sales of products bought and resold.....do....	13,913	28,798	43,711	3,631	2,508	3,316	1,791
Capital expenditures, new.....do....	75,536	14,542	7,558	7,243	2,318	3,270	1,924
Number of employees for selected months:							
March.....	280,437	62,725	35,177	22,887	8,817	18,085	11,367
May.....	280,756	61,796	33,542	22,828	8,799	18,401	11,590
August.....	281,071	61,653	34,890	22,481	8,676	18,181	11,571
November.....	284,931	63,537	35,206	22,586	8,691	18,845	12,014
Cost of materials, fuel, electricity and contract work, total.....\$1,000..	946,815	645,416	270,529	76,635	27,744	81,931	56,324
Materials, parts, containers, and supplies consumed.....do....	861,850	322,515	98,870	62,557	23,319	50,801	34,779
Fuels consumed, total.....do....	1,192	371	219	66	36	48	38
Electric energy:							
Purchased:							
Quantity.....million kwh..	768	66	24	73	19	14	4
Cost.....\$1,000..	12,958	2,075	1,087	1,095	393	551	337
Cost of contract work.....do....	70,815	320,455	170,353	12,917	3,996	30,531	21,170
Expenditures for plant and equipment, total.....do....	84,411	15,021	7,715	7,707	2,418	3,673	2,155
Capital expenditures, new.....do....	75,536	14,542	7,558	7,243	2,318	3,370	1,924
New structures and additions to plant.....do....	23,132	4,140	4,906	2,080	605	905	624
New machinery and equipment.....do....	52,404	10,402	2,652	5,161	1,713	2,465	1,300
Expenditures for used plant and equipment.....do....	8,875	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
Horsepower rating of power equipment at end of 1954:							
Horsepower of prime movers and electric motors driven by purchased energy, total.....1,000 hp..	420	45	10	25	9	5	2
Engines, etc., driving electric generators...do....	7	10	( <sup>4</sup> )	1	1	...	...
Engines, etc., not driving electric generators.....do....	4	1	( <sup>4</sup> )	( <sup>4</sup> )	...	...	...
Electric motors driven by purchased energy...do....	409	34	10	24	8	5	2

Note: Detailed figures may not add to the totals because of independent rounding. xxx Not applicable. NA Not available. <sup>1</sup>The specialization ratio compares the given industry's shipments of its primary products to its total shipments of all products. (The primary products are listed in Tables 5B and 6A; the first 4-digits of the product code represent the industry code to which the product is primary.) Columns containing totals for establishments with 90% or more primary product specialization are shown only for those industries having a primary product specialization of less than 90%. <sup>2</sup>The coverage ratio measures the extent to which the total shipments of products primary to the given industry are shipped by establishments classified in that industry. <sup>3</sup>Less than \$500 thousand. <sup>4</sup>Less than 500 hp.



Table 4.—SELECTED STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR THE UNITED STATES: 1954

(Value figures in thousands of dollars. For explanation of line captions see Introduction. Data which cannot be shown without disclosing information for individual companies have been combined with figures for other size classes. A (D) appears in the column where the figure has been omitted and the combined figure is underlined and shown in the size-class to the left)

Ind. code	Industry and item	Total, all establishments	Establishments with an average of—									
			1-4 em- ployees	5-9 em- ployees	10-19 em- ployees	20-49 em- ployees	50-99 em- ployees	100-249 employees	250-499 employees	500-999 employees	1,000-2,499 employees	2,500 employees and over
2711	Newspapers:											
	Number of establishments..	8,646	3,920	2,014	1,075	847	351	233	106	56	39	5
	Number of employees.....	281,799	10,336	13,966	15,002	26,339	24,269	36,223	36,849	41,000	58,670	19,141
	Value added by manufacture	2,144,223	53,663	70,957	82,290	161,685	168,952	280,407	297,446	349,095	491,538	188,187
2721	Periodicals:											
	Number of establishments..	2,045	1,069	377	229	193	77	64	18	9	7	2
	Number of employees.....	62,428	2,651	2,629	3,180	6,126	5,330	10,070	6,478	6,581	<u>19,379</u>	(D)
	Value added by manufacture	795,543	22,582	24,991	32,899	61,843	52,167	145,616	83,886	60,346	<u>311,209</u>	(D)
2731	Books; publishing & printing:											
	Number of establishments..	814	391	146	80	76	52	42	13	9	5	...
	Number of employees.....	34,704	911	1,012	1,145	2,374	3,687	6,493	4,382	6,314	8,382	...
	Value added by manufacture	394,702	8,790	11,551	12,817	25,562	40,756	86,035	45,055	92,638	71,494	...
2732	Book Printing:											
	Number of establishments..	598	258	98	89	77	34	26	5	8	3	...
	Number of employees.....	22,695	690	676	1,269	2,440	2,268	4,115	1,816	5,662	3,757	...
	Value added by manufacture	144,692	5,115	5,739	8,363	16,778	15,432	25,780	12,238	30,578	24,666	...
2741	Miscellaneous publishing:											
	Number of establishments..	946	550	163	83	85	28	24	8	3	2	...
	Number of employees.....	18,378	1,275	1,146	1,199	2,576	2,107	3,505	2,625	<u>3,942</u>	(D)	...
	Value added by manufacture	149,310	11,635	8,042	9,230	18,212	15,975	24,712	28,423	<u>33,078</u>	(D)	...

Note: Detailed figures may not add to totals, because of independent rounding.

Table 5A.—INDUSTRY-PRODUCT ANALYSIS—SUMMARY OF INDUSTRY AND PRIMARY PRODUCT SHIPMENTS, SPECIALIZATION RATIOS AND COVERAGE RATIOS FOR THE UNITED STATES: 1954 AND 1947

Industry code	Industry and census year	Value of shipments					Value of primary products shipped			
		Total	Primary products	Secondary products	Miscel- laneous receipts	Primary product speciali- zation ratio <sup>1</sup>  Col. B Col. B+C (Percent)	Total (made in all industries)	Made in this industry	Made in other industries	Coverage ratio <sup>2</sup>  Col. G Col. F (Percent)
(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(F)	(G)	(H)	(I)			
2711	Newspapers.....1954..	3,091,027	2,926,465	152,430	12,132	95	2,926,465	2,926,465	...	100
	.....1947..	1,917,302	1,791,996	117,713	7,593	94	1,792,338	1,792,338	...	100
2721	Periodicals.....1954..	1,440,961	1,364,162	73,927	2,872	95	1,413,052	1,364,162	48,890	97
	.....1947..	1,059,368	994,915	60,129	4,324	94	1,019,473	994,915	24,558	98
2731	Books; publishing and printing.....1954..	665,232	595,557	59,385	10,290	91	665,419	595,557	69,862	90
	.....1947..	463,851	425,932	35,403	2,516	92	455,790	425,932	29,858	93
2732	Book printing.....1954..	221,328	168,539	51,584	1,205	76	304,894	168,539	136,355	55
	.....1947..	92,303	70,487	21,096	720	77	158,582	70,487	88,095	44
2741	Miscellaneous publishing.....1954..	231,242	190,122	32,395	8,725	85	231,140	190,122	41,018	82
	.....1947..	103,343	95,995	6,784	564	93	123,474	95,995	27,479	78

<sup>1</sup>The specialization ratio compares the given industry's shipments of its primary products to its total shipments of all products. (The primary products are listed in Tables 5B and 6A; the first 4-digits of the product code represent the industry code to which the product is primary.)

<sup>2</sup>The coverage ratio measures the extent to which the total shipments of products primary to the given industry are shipped by establishments classified in that industry.



## MANUFACTURES--INDUSTRY STATISTICS

Table 5B.--INDUSTRY-PRODUCT ANALYSIS-SHIPMENTS BY PRODUCT CLASS AND INDUSTRY, FOR THE UNITED STATES: 1954

(In thousands of dollars. Each column shows, for the industry listed in the column heading, the value of shipments divided among publishing receipts, other products, and miscellaneous receipts. Each figure represents the amount of the product class shown at the left shipped by the industry listed at the top of the column. The first four digits of the product class codes at the left represent the codes of the industries to which they are primary. All other product classes in a column represent products secondary to the specified industry)

Prod. class code	Class of products and miscellaneous receipts	Newspapers (S.I.C. 2711)	Periodicals (S.I.C. 2721)	Books: publishing and printing (S.I.C. 2731)	Book printing (S.I.C. 2732)	Miscellaneous publishing (S.I.C. 2741)	Other industries	All industries
	Total shipments and receipts of the industry.....	3,091,027	1,440,961	665,232	221,328	231,242	xxx	xxx
271- 272- 273- 274-	Publishing receipts.....	2,972,685	1,423,732	634,480	169,913	203,727	136,433	5,540,970
27111	Newspapers: receipts from subscriptions and sales...	840,867	...	...	...	...	...	840,867
27112	Newspapers: receipts from advertising.....	2,058,975	...	...	...	...	...	2,058,975
27110	Newspapers, receipts, not specified by kind.....	26,623	...	...	...	...	...	26,623
27211	Periodicals: receipts from subscriptions and sales..	9,172	506,515	6,510	231	2,224	<sup>1</sup> 5,928	530,580
27212	Periodicals: receipts from advertising.....	9,125	840,550	4,541	205	3,606	<sup>2</sup> 5,466	863,493
27210	Periodicals, receipts, not specified by kind.....	( <sup>3</sup> )	17,097	( <sup>1</sup> )	...	...	1,830	18,979
27310	Book and pamphlet publishing.....	1,968	51,123	595,557	785	7,564	<sup>4</sup> 8,422	665,419
27320	Book and pamphlet printing and bookbinding.....	17,111	1,589	13,760	168,539	211	<sup>5</sup> 103,684	304,894
27410	Miscellaneous publishing.....	8,842	6,858	14,062	153	190,122	<sup>6</sup> 11,103	231,140
	Other products.....	106,210	14,357	20,462	50,210	18,790	xxx	xxx
27510	Commercial printing, letterpress and gravure.....	<sup>7</sup> 89,685	8,652	1,774	22,833	12,797	xxx	xxx
27610	Lithographing.....	<sup>7</sup> 6,834	916	193	14,983	4,178	xxx	xxx
	Other secondary products.....	<sup>8</sup> 9,691	<sup>9</sup> 4,789	<sup>10</sup> 18,495	<sup>11</sup> 12,394	1,815	xxx	xxx
	Miscellaneous receipts.....	12,132	2,872	10,290	1,205	8,725	xxx	xxx
	Contract and commission work (incl. royalties).....	9,228	2,594	10,168	573	8,547	xxx	xxx
	Scrap and salable refuse.....	2,707	221	113	632	106	xxx	xxx
	Other.....	197	( <sup>3</sup> )	( <sup>3</sup> )	...	( <sup>3</sup> )	xxx	xxx

xxx Not applicable.

<sup>1</sup>Includes \$4,438 thousand in receipts received by the Industry 2751, Commercial Printing.

<sup>2</sup>Includes \$4,598 thousand in receipts received by Industry 2751, Commercial Printing.

<sup>3</sup>Less than \$100 thousand.

<sup>4</sup>Includes \$2,636 thousand shipped by Industry 2751, Commercial Printing.

<sup>5</sup>Includes shipments of specified amounts (in thousands of dollars) by the following industries: \$72,438 by Industry 2751, Commercial Printing; \$26,472 by Industry 2761, Lithographing.

<sup>6</sup>Includes \$4,123 thousand shipped by Industry 2751, Commercial Printing.

<sup>7</sup>Commercial printing receipts are considered primary activities for newspaper publishers. For the purpose of classifying establishments (see text for the S.I.C. definition of Industry 2711). However, for the purpose of calculating coverage and specialization ratios for this industry, such receipts are treated as secondary activities (see Table 5A).

<sup>8</sup>Includes \$5,334 thousand of photoengraving (product class 27930).

<sup>9</sup>Composed largely of other converted paper and paper board products (product class 26996).

<sup>10</sup>Composed largely of other converted paper and paper board products (product class 26996) greeting cards, publishing (product class 27711) bookbinding (product class 27810) and games and toys, except dolls and children's vehicles (product class 39410).

<sup>11</sup>Includes \$4,677 thousand of bookbinding (product class 27810) and \$4,421 thousand of typesetting, machine and hand (product class 27910).

NEWSPAPERS, PERIODICALS, BOOKS, AND MISCELLANEOUS PUBLISHING

27A-11

Table 6A.--QUANTITY AND VALUE OF PRODUCTS SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, FOR THE UNITED STATES: 1954 AND 1947

Product code	Product	Total receipts (\$1,000)	
		1954	1947
2711---	Newspapers, total.....	2,926,465	1,792,338
27111	Receipts from subscriptions and sales.....	840,867	599,925
	Reported by separate frequency of issue <sup>1</sup> .....	543,708	386,299
2711101	Morning papers, except Sunday.....	136,262	84,413
2711111	Evening papers, except Sunday.....	235,625	178,383
2711121	Sunday editions of daily papers.....	116,959	91,692
2711131	Tri-weekly papers.....	4,317	2,113
2711141	Semi-weekly papers.....		
2711151	Weekly papers, including those issued on Sunday only..		
2711198	Other frequency papers.....	2,221	2,894
	Reported by combined frequency of issue <sup>1</sup> .....	297,159	213,626
2711115	Morning and Sunday papers.....	118,121	78,048
2711125	Evening and Sunday papers.....	141,281	68,299
2711171	Morning and evening papers.....	7,676	67,279
2711181	Other frequency combinations <sup>2</sup> .....	27,982	
2711100	Receipts from subscriptions and sales, not specified by kind.....	2,099	...
27112	Receipts from advertising.....	2,058,975	1,192,413
	Reported by separate frequency of issue <sup>1</sup> .....	1,357,775	755,493
2711201	Morning papers, except Sunday.....	296,100	137,190
2711211	Evening papers, except Sunday.....	628,186	388,780
2711221	Sunday editions of daily papers.....	227,553	107,726
2711231	Tri-weekly papers.....	21,418	9,823
2711241	Semi-weekly papers.....		
2711251	Weekly papers, including those issued on Sunday only..		
2711298	Other frequency papers.....	7,897	7,294
	Reported by combined frequency of issue <sup>1</sup> .....	695,401	436,920
2711215	Morning and Sunday papers.....	265,360	145,354
2711225	Evening and Sunday papers.....	331,773	150,762
2711271	Morning and evening papers.....	15,314	140,804
2711281	Other frequency combinations <sup>2</sup> .....	82,954	
2711200	Receipts from advertising, not specified by kind.....	5,799	...
2711000	Newspapers, receipts undistributed and not specified by kind.....	26,623	...
2721---	Periodicals, total.....	1,413,052	1,019,473
27211	Receipts from subscriptions and sales.....	530,580	407,016
2721101	Daily.....	19,808	16,204
2721151	Weekly.....	145,423	107,249
2721161	Semi-monthly and bi-weekly (24 to 26 issues per year)....	24,695	16,954
2721171	Monthly.....	276,997	224,038
2721181	Quarterly.....	20,887	17,758
2721131	Other <sup>3</sup> .....	41,205	24,813
2721141			
2721198			
2721100	Receipts from subscriptions and sales, not specified by kind.....	1,565	...
27212	Receipts from advertising.....	863,493	612,457
2721201	Daily.....	16,717	14,612
2721251	Weekly.....	328,249	240,784
2721261	Semi-monthly and bi-weekly (24 to 26 issues per year)....	58,799	30,129
2721271	Monthly.....	403,734	303,095
2721281	Quarterly.....	5,982	2,477
2721231	Other <sup>3</sup> .....	47,614	21,360
2721241			
2721298			
2721200	Receipts from advertising, not specified by kind.....	2,398	...
2721098	Periodicals, not specified by kind.....	18,979	...
2721000			

See footnotes at end of table.

## MANUFACTURES--INDUSTRY STATISTICS

Table 6A.--QUANTITY AND VALUE OF PRODUCTS SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, FOR THE UNITED STATES: 1954 AND 1947--Continued

Product code	Product	1954						1947	
		Total copies		Hardbound <sup>4</sup>		Paperbound <sup>4</sup>		Total number copies sold	Total receipts
		Number sold (1,000 copies)	Receipts (\$1,000)	Number sold (1,000 copies)	Receipts (\$1,000)	Number sold (1,000 copies)	Receipts (\$1,000)	(1,000 copies)	(\$1,000)
2731---	Books and pamphlets, total.....	xxx	665,419	xxx	xxx	xxx	xxx	xxx	455,790
	Books, total.....	5770,840	628,551	302,255	4502,146	439,062	4106,616	487,216	435,134
	Textbooks:								
	Elementary:								
2731011	Original editions.....	54,596	59,869	36,266	52,404	18,390	7,462	73,442	354,405
2731012	Reprint editions.....	8,928	7,780	4,275	4,961	4,647	2,780	812	3663
	High School:								
2731013	Original editions.....	14,707	29,549	12,701	27,772	1,978	1,731	(6)	(6)
2731014	Reprint editions.....	3,541	4,555	2,926	4,155	609	387		
	College:								
2731015	Original editions.....	14,072	47,746	13,150	46,758	910	929	23,112	51,337
2731016	Reprint editions.....	1,764	4,044	1,388	3,483	376	555	709	1,176
	School workbooks (not including educational tests):								
2731017	Original editions.....	59,373	26,902	4,621	2,805	54,471	23,988	41,010	13,227
2731018	Reprint editions.....								
	Religious books:								
2731021	Bibles and testaments.....	11,359	19,125	(D)	(D)	(D)	(D)	9,248	9,285
	Hymnals:								
2731023	Original editions.....	(NA)	3,048	(NA)	2,561	(NA)	469	733,295	719,608
2731025	Reprint editions.....								
	General religious books (including prayer books):								
2731027	Original editions.....	(NA)	13,959	(NA)	11,940	(NA)	1,893		
2731029	Reprint editions.....								
	Technical, scientific, and professional books:								
2731031	Original editions.....	14,187	51,644	8,543	44,918	5,343	6,279	13,703	40,035
2731035	Reprint editions.....	5,030	11,991	2,974	10,702	2,064	1,219	3,764	5,802
	Trade books (including novels, biographies, music, art, and travel books, dictionaries, etc.):								
	Adult:								
2731041	Original editions.....	68,829	93,520	45,193	86,496	23,937	6,888	832,345	846,131
2731043	Reprint editions.....	205,448	75,805	41,121	46,621	164,302	29,161	8108,069	823,832
	Juvenile (except toy books):								
2731045	Original editions.....	220,114	50,835	75,991	34,190	144,074	16,577	53,752	20,289
2731047	Reprint editions.....								
	Encyclopedias (subscription books):								
2731048	Original editions.....	17,281	83,194	17,281	83,194	...	...	1012,604	1058,351
2731049	Reprint editions.....	8,579	6,631	8,579	6,631	...	...	102,022	105,500
	Other books (except toy books):								
2731051	Original editions.....	11,637	18,405	5,007	14,796	6,482	3,344	831,105	829,910
2731055	Reprint editions.....	2,994	1,623	446	693	2,538	911	848,224	855,583
2731061	Books-hardbound and paperbound, not further classified <sup>11</sup> ..	29,346	18,326	xxx	xxx	xxx	xxx		
	Pamphlets (including educational tests):								
2731071	Original editions.....	156,837	13,557	xxx	xxx	156,837	13,557	402,290	20,656
2731075	Reprint editions.....	45,104	5,089	xxx	xxx	45,104	5,089		
2731081	Pamphlets, not further classified <sup>11</sup> .....	65,147	6,448	xxx	xxx	65,147	6,448		
2731000	Other books and pamphlets, not specified by kind <sup>12</sup> .....	xxx	11,774	xxx	xxx	xxx	xxx	...	...
Total receipts (\$1,000)									
1954					1947				
2732---	Book printing, total.....	304,894				158,582			
	Book and pamphlet printing and complete book manufacturing:								
	Letterpress process:								
2732011	Books (printing only).....	33,009				1343,801			
2732013	Books (printed and bound).....	104,989				1485,722			
2732015	Pamphlets (printing only) excluding advertising circulars and pamphlets.....	22,298				(13)			
2732017	Pamphlets (printed and bound) excluding advertising circulars and pamphlets.....	22,790				(14)			

See footnotes at end of table.

NEWSPAPERS, PERIODICALS, BOOKS, AND MISCELLANEOUS PUBLISHING

27A-13

Table 6A.--QUANTITY AND VALUE OF PRODUCTS SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, FOR THE UNITED STATES: 1954 AND 1947--Continued

Product code	Product	Total receipts (\$1,000)	
		1954	1947
2732--	Book printing--Continued		
	Book and pamphlet printing and complete book manufacturing		
	--Continued		
	Lithograph process:		
2732031	Books (printing only).....	21,692	<sup>13</sup> 12,703
2732033	Books (printed and bound).....	25,559	<sup>14</sup> 16,356
2732035	Pamphlets (printing only) excluding advertising		
	circulars and pamphlets.....	10,840	( <sup>13</sup> )
2732037	Pamphlets (printed and bound) excluding advertising		
	circulars and pamphlets.....	14,849	( <sup>14</sup> )
	Gravure process:		
2732051	Books (printing only).....	5,596	(NA)
2732053	Books (printed and bound).....		
2732000	Book and pamphlet printing and complete book manufacturing, not specified by kind.....	43,272	...
2741---	Miscellaneous publishing, total.....	231,140	123,474
2741011	Cards, other than greeting cards (including picture post-cards, souvenir cards, etc.).....	4,817	3,770
2741021	Shopping news.....	20,986	18,647
2741031	Sheet music, except book form.....	10,802	10,745
2741041	Directories, catalogs, almanacs, etc.....	66,372	31,659
2741051	Business services, loose-leaf and hardbound, including tax, credit, government regulations, cumulative indexes, etc.....	55,944	27,048
2741061	Maps, atlases, gazetteers, and globe covers.....	20,935	9,587
2741098	Other miscellaneous publications (racing forms, etc.).....	28,539	22,018
2741010	Miscellaneous publishing (except shopping news), not further classified <sup>15</sup> .....	14,626	...
2741000	Miscellaneous publishing, not specified by kind.....	8,119	...

xxx Not applicable.

D Withheld to avoid disclosing figures for individual companies.

NA Not available.

<sup>1</sup>Data for 1954 and 1947 for these subtotals and the seven-digit product codes listed below may not be exactly comparable because some newspapers may have been reported on a combined frequency basis in one year and on separate frequency basis in the other; however, it is believed that most newspapers reported on the same basis for both years.

<sup>2</sup>Combination of morning, evening, and Sunday or a combination of two frequencies not specified in existing product codes.

<sup>3</sup>"Other" includes "Tri-weekly" and "Semi-weekly."

<sup>4</sup>Detailed figures may not add exactly to the totals, owing to small differences in the reporting of individual establishments that could not be reconciled. These differences are not considered significant for the categories so affected, either in terms of their effect on the number of copies sold or on the dollar receipts reported. The "Books, total" excludes sales of "books, not further classified" (product code 2731061).

<sup>5</sup>Excludes a small amount of books reported by establishments that were unable to report a breakdown of their receipts as between books and pamphlets (see product codes 2731000 and 2731099).

<sup>6</sup>High School books are included with Elementary books. Separate figures were not collected in 1947.

<sup>7</sup>In 1947 Hymnals and General Religious Books (including Prayerbooks) were reported on a single product line.

<sup>8</sup>The 1947 receipts from "Other books" (product codes 2731051 and 2731055) included book club sales and mail order sales as well as sale of books (except toy books), not further classified. In 1954, receipts from book club sales and mail order sales are shown by type or category of book; this change in classification affects particularly the 1954-1947 comparison in the adult trade book category (product codes 2731041 and 2731043).

<sup>9</sup>Since these books are frequently sold direct to the consumers, some publishers reported their receipts on a retail basis; hence, aggregate receipts for this type of book are a combination of wholesale and retail values but do represent total receipts at the publishing plant level. Also, as books in this category are typically sold on an installment plan basis, the values reported here (actual receipts during the year) may not agree with publishers' sales for the same reporting period.

<sup>10</sup>Includes an indeterminable portion, believed to be small, of receipts from other subscription books.

<sup>11</sup>Represents receipts reported on short form MC-27C by small establishments that were not asked to provide a breakdown of receipts by type of edition or binding.

<sup>12</sup>Largely accounted for by small establishments that were not able to report a breakdown of their total receipts.

<sup>13</sup>Books, printed only" includes "Pamphlets, printed only."

<sup>14</sup>"Books, printed and bound" includes "Pamphlets, printed and bound."

<sup>15</sup>Represents receipts reported on short form MC-27C by small establishments that were not asked to provide a breakdown by type of publication.





## NEWSPAPERS, PERIODICALS, BOOKS, AND MISCELLANEOUS PUBLISHING

27A-15

Table 6B.—VALUE OF PRODUCT CLASSES SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, BY DIVISIONS AND STATES FOR 1954, AND UNITED STATES TOTALS FOR EARLIER YEARS

Product class, region, and State <sup>1</sup>	Value of shipments	Product class, region, and State <sup>1</sup>	Value of shipments	Product class, region, and State <sup>1</sup>	Value of shipments
<u>Periodicals: receipts from advertising (27212)—Continued</u>		<u>Book and pamphlet printing and bookbinding (27320)—Continued</u>		<u>Miscellaneous publishing (27410)—Continued</u>	
Middle Atlantic.....	610,144	Middle Atlantic.....	113,231	Middle Atlantic.....	83,394
New York.....	475,997	New York.....	80,925	New York.....	72,020
New Jersey.....	5,147	New Jersey.....	9,780	New Jersey.....	6,578
Pennsylvania.....	128,999	Pennsylvania.....	22,524	Pennsylvania.....	4,795
East North Central.....	120,739	East North Central.....	88,941	East North Central.....	90,385
Ohio.....	44,643	Ohio.....	12,397	Ohio.....	7,018
Indiana.....	2,497	Indiana.....	13,734	Indiana.....	4,964
Illinois.....	63,549	Illinois.....	37,532	Illinois.....	68,024
Michigan.....	6,706	Michigan.....	8,666	Michigan.....	8,740
Wisconsin.....	3,343	Wisconsin.....	16,611	Wisconsin.....	1,638
West North Central.....	48,580	West North Central.....	16,095	West North Central.....	8,599
Minnesota.....	5,782	Minnesota.....	4,254	Minnesota.....	2,679
Iowa.....	26,988	Iowa.....	1,726	Iowa.....	1,895
Missouri.....	7,487	Missouri.....	7,024	Missouri.....	2,581
South Atlantic.....	28,415	Kansas.....	1,707		
Maryland.....	2,339	South Atlantic.....	19,305	South Atlantic.....	7,553
District of Columbia.....	18,409	Maryland.....	5,030	Maryland.....	1,229
Virginia.....	1,136	District of Columbia.....	2,973	District of Columbia.....	4,000
Georgia.....	4,281	Virginia.....	3,457	Virginia.....	1,202
Florida.....	1,307	North Carolina.....	1,543		
East South Central.....	10,430	Georgia.....	3,467		
Tennessee.....	3,018	Florida.....	1,504		
West South Central.....	10,936	East South Central.....	15,894		
Oklahoma.....	4,010	Kentucky.....	1,027	East South Central.....	1,052
Texas.....	5,572	Tennessee.....	13,551		
Mountain.....	2,618	Alabama.....	1,009	West South Central.....	5,243
Colorado.....	1,329	West South Central.....	4,226		
Pacific.....	19,493	Texas.....	2,538	Texas.....	3,614
California.....	18,276	Mountain.....	2,524		
<u>Book and pamphlet printing and bookbinding (27320)</u>		Pacific.....	10,376	Mountain.....	2,184
1954 United States, total.....	304,894	California.....	9,212		
1947 United States, total.....	158,582	<u>Miscellaneous publishing (27410)</u>		Colorado.....	1,282
1954		1954 United States, total.....	231,140		
New England.....	33,985	1947 United States, total.....	123,474	Pacific.....	18,079
Vermont.....	1,161	1954			
Massachusetts.....	25,528	New England.....	14,351	Washington.....	1,663
Rhode Island.....	2,378	Massachusetts.....	9,266	California.....	15,652
Connecticut.....	3,898	Connecticut.....	3,827		

Note: The figures shown for 1950 to 1953 are sample estimates obtained from the Annual Survey of Manufactures for those years. Since the estimates are based on a sample they are subject to sampling variability, that is, they are not the same as figures which would have been obtained if complete censuses had been taken for those years. Measures of the sampling variability (standard errors) of the estimated total value of shipments of each product class are shown in the Annual Survey of Manufactures publications. Also shown are the standard errors of the relative change in shipments between some consecutive Annual Survey years which are the more significant measures when the series is studied for trend.

<sup>1</sup>For the specified product classes, shipments of over \$1 million were reported for the States listed but the exact figures are withheld to avoid disclosure of individual company figures: 27111, Delaware, and South Carolina; 27212, Alabama, Kentucky, Kansas, and Nebraska.

## MANUFACTURES--INDUSTRY STATISTICS

Table 6C--NEWSPAPER PUBLISHING AND PERIODICAL PUBLISHING: RECEIPTS BY KIND, UNITED STATES TOTALS, 1954 AND EARLIER CENSUS YEARS  
(In thousands of dollars)

Census Year	Newspaper receipts			Periodical receipts		
	Total <sup>1</sup>	Subscriptions and sales	Advertising	Total <sup>2</sup>	Subscriptions and sales	Advertising
1954.....	2,926,465	840,867	2,058,975	3,413,052	530,580	863,493
1953 <sup>4</sup> .....	2,832,603	830,986	2,001,617	1,443,801	551,291	892,510
1952 <sup>4</sup> .....	2,672,379	792,926	1,879,453	1,350,172	537,321	812,851
1951 <sup>4</sup> .....	2,499,875	752,779	1,747,096	1,264,271	516,756	747,515
1950 <sup>4</sup> .....	2,375,109	733,616	1,641,493	1,118,546	470,129	648,417
1949 <sup>4</sup> .....	2,232,322	729,812	1,502,510	1,144,512	476,733	667,779
1947.....	1,792,338	599,925	1,192,413	1,019,473	407,016	612,457
1939.....	845,687	306,192	539,495	409,027	184,572	224,455
1937.....	861,689	287,509	574,180	407,835	171,961	235,874
1935.....	760,247	260,224	500,023	329,564	143,466	186,098
1933.....	667,820	239,147	428,673	269,294	128,292	141,002
1931.....	886,523	261,569	624,954	407,254	163,698	243,556
1929.....	1,073,119	275,781	797,338	507,445	184,545	322,900
1927.....	977,648	252,811	724,837	482,040	176,656	305,384
1925.....	892,094	230,581	661,513	429,516	167,757	261,759
1923.....	803,497	222,559	580,938	351,289	138,333	212,956
1921.....	734,321	212,636	521,685	270,949	115,648	155,301
1919.....	566,321	192,819	373,502	239,984	85,187	154,797
1914.....	283,589	99,542	184,047	135,621	64,035	71,586

<sup>1</sup>Varies from total receipts for industry shown in tables 1, 2, 3 and 5 by the amount of secondary products, misc. receipts, etc.<sup>2</sup>Includes \$26,623,000 receipts not distributed between "Subscriptions and sales" and "Advertising."<sup>3</sup>Includes \$18,979,000 receipts not distributed between "Subscriptions and sales" and "Advertising."<sup>4</sup>The figures for 1949-1953 represent estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period.

Table 6D.--NEWSPAPERS AND PERIODICALS: NUMBER OF PUBLICATIONS AND AGGREGATE CIRCULATION PER ISSUE, BY FREQUENCY OF ISSUE, FOR THE UNITED STATES; 1954 AND SELECTED EARLIER CENSUS YEARS

Frequency of issue	1954		1947		1939		1929	
	Number of Publications	Aggregate circulation per issue <sup>1</sup>	Number of Publications	Aggregate circulation per issue <sup>1</sup>	Number of Publications	Aggregate circulation per issue <sup>1</sup>	Number of Publications	Aggregate circulation per issue <sup>1</sup>
Newspapers, total.....	9,022	136,352,971	10,282	119,567,360	9,173	96,476,469	10,176	91,778,033
Daily and Sunday newspapers:								
Morning, excluding Sunday.....	385	22,475,209	400	21,796,428	473	17,152,298	459	15,741,769
Evening, excluding Sunday.....	1,435	33,934,556	1,454	31,490,086	1,567	25,813,827	1,627	26,273,692
Sunday.....	510	46,350,351	416	42,736,321	542	33,006,875	578	29,011,648
Weekly newspapers.....	6,249	30,335,948	7,705	21,407,560	6,212	18,294,604	7,075	18,883,551
Tri-weekly.....	29	197,719	21	151,125	36	219,121	56	287,152
Semi-weekly.....	288	1,326,844	230	925,772	343	1,989,744	381	1,580,221
Other.....	126	1,732,344	56	1,060,068	...	...	...	...
Periodicals, total.....	3,427	449,234,696	4,610	384,628,482	4,985	239,692,508	5,157	202,021,595
Daily.....	84	748,047	112	842,414	220	1,979,417	207	932,363
Weekly.....	487	82,065,756	892	69,392,699	1,109	55,825,296	1,158	34,494,799
Semi-monthly and bi-weekly.....	148	19,841,895	233	13,832,402	193	8,135,260	224	9,168,458
Monthly.....	1,004	20,020,417	2,253	194,823,923	2,323	134,766,467	2,799	133,048,488
Quarterly.....	422	43,339,138	647	45,535,089	698	26,238,181	562	20,605,002
Tri-weekly.....	32	2262,931	5	4,826	12	27,152	8	24,625
Semi-weekly.....	32	2262,931	21	181,631	50	2,994,810	27	1,401,963
Other.....	650	99,000,510	447	60,015,498	380	9,725,925	172	2,345,897

<sup>1</sup>Calculated by aggregating circulation per issue for individual publications from publishers reporting receipts on a combined frequency of issue basis as well as from publishers reporting receipts separately for each frequency of issue.<sup>2</sup>Combined to avoid disclosure of individual company figures.



Table 6E.—NEWSPAPERS—DAILY, SUNDAY AND WEEKLY, NUMBER AND AGGREGATE CIRCULATION PER ISSUE, BY DIVISIONS AND STATES: 1954 AND 1947

Division and State	Frequency of Issue										Weekly Aggregate circulation per issue <sup>1</sup>					
	Morning					Evening						Sunday				
	Number		Aggregate circulation per issue <sup>1</sup>	Number		Aggregate circulation per issue <sup>1</sup>	Number		Aggregate circulation per issue <sup>1</sup>	Number		Aggregate circulation per issue <sup>1</sup>				
	1954	1947		1954	1947		1954	1947		1954			1947			
United States, total.....	385	400	22,475,209	21,796,428	1,435	1,454	33,934,556	31,490,086	510	416	46,350,351	42,736,321	6,249	7,705	30,335,948	21,407,560
New England.....	28	27	1,619,444	(D)	91	100	2,474,918	2,464,781	21	16	2,559,243	(D)	265	302	1,329,295	1,098,079
Maine.....	5	5	182,064	161,759	5	6	64,150	75,377	2	1	172,993	(D)	35	46	97,202	96,839
New Hampshire.....	1	2	(D)	(D)	8	8	84,061	69,013	1	...	(D)	...	34	27	83,602	77,739
Vermont.....	1	2	49,220	(D)	8	9	44,312	50,384	1	...	(D)	...	14	23	23,669	34,509
Massachusetts.....	12	11	1,128,751	1,289,865	45	51	1,488,066	1,645,044	9	9	1,686,994	1,906,465	129	143	780,337	638,998
Rhode Island.....	1	1	(D)	(D)	6	6	238,325	217,821	2	1	(D)	(D)	8	10	77,533	68,171
Connecticut.....	7	5	188,121	195,794	19	20	556,004	407,142	6	5	441,688	283,573	45	53	265,352	221,205
Middle Atlantic.....	68	86	6,611,576	7,310,248	207	209	7,539,177	7,177,913	53	40	14,209,998	14,794,344	815	972	5,305,848	4,458,813
New York.....	35	45	4,793,446	5,530,088	82	87	3,814,577	3,696,295	27	25	10,044,705	11,356,439	376	442	1,706,940	1,622,811
New Jersey.....	5	8	352,992	293,747	20	21	912,536	766,233	7	7	759,609	460,465	179	225	905,449	731,115
Pennsylvania.....	28	33	1,465,538	1,486,413	105	101	2,812,064	2,715,385	17	8	3,405,284	2,977,440	260	305	2,093,459	2,104,887
East North Central.....	45	49	3,441,880	(D)	339	350	8,957,314	8,503,402	75	66	9,180,289	8,240,289	1,321	1,555	10,145,341	4,890,285
Ohio.....	12	12	790,839	480,160	91	94	2,628,011	2,612,172	18	19	2,020,310	1,713,137	274	324	1,573,869	917,775
Indiana.....	13	12	387,088	412,978	69	81	1,130,277	1,072,454	19	13	990,310	665,877	197	245	459,554	423,362
Michigan.....	2	7	1,524,114	1,587,281	84	84	2,413,990	2,416,758	20	17	3,235,408	3,932,878	380	503	5,892,659	2,720,216
Wisconsin.....	6	3	(D)	(D)	39	42	825,268	783,431	6	5	852,444	1,978,216	244	284	1,980,990	792,014
West North Central.....	34	32	1,828,112	(D)	198	208	3,394,701	3,319,894	51	37	4,046,996	3,647,067	226	250	703,669	486,918
Minnesota.....	5	5	374,910	298,739	27	31	681,915	695,582	6	3	886,331	(D)	1,317	1,575	4,303,587	3,696,013
Iowa.....	5	4	307,688	(D)	42	39	644,421	584,777	12	7	786,021	747,286	272	311	1,641,692	992,899
Missouri.....	11	10	741,721	762,234	45	51	1,022,917	871,043	13	8	1,383,436	922,171	242	336	1,215,951	1,386,997
North Dakota.....	3	3	(D)	(D)	9	9	93,198	79,534	2	2	84,870	(D)	71	80	120,484	136,041
South Dakota.....	1	1	177,312	167,074	16	11	151,821	390,149	6	3	108,846	(D)	92	101	119,538	128,500
Nebraska.....	5	5	(D)	(D)	16	20	282,207	282,380	5	3	343,001	(D)	144	184	313,542	320,807
Kansas.....	4	4	165,246	183,853	48	47	518,952	416,429	11	9	454,091	364,067	215	244	762,397	368,969
South Atlantic.....	66	59	3,169,388	(D)	147	141	3,202,366	(D)	79	71	5,004,408	(D)	618	1,003	2,437,635	(D)
Delaware.....	1	1	(D)	(D)	2	1	516,996	483,527	...	...	...	...	14	15	66,781	(D)
Maryland.....	6	5	(D)	(D)	8	8	(D)	(D)	2	3	664,202	(D)	53	68	1,426,460	389,158
District of Columbia.....	1	1	(D)	(D)	2	2	(D)	(D)	1	1	668,711	734,645	93	104	318,723	298,254
Virginia.....	11	10	388,442	312,559	22	21	396,880	335,641	12	11	556,785	444,772	93	106	333,070	298,255
West Virginia.....	9	7	254,647	220,153	21	21	265,049	279,269	9	9	408,339	348,382	64	74	143,355	139,741
North Carolina.....	8	6	300,736	167,379	10	33	465,202	405,313	14	9	626,316	331,565	105	97	273,949	179,838
South Carolina.....	8	6	376,918	298,172	20	20	457,883	377,303	10	11	775,573	637,055	114	61	114,799	114,149
Georgia.....	13	12	704,421	419,475	27	25	494,793	378,783	22	22	990,929	642,034	108	121	346,636	192,006
Florida.....	26	26	1,000,342	852,524	64	68	1,457,536	1,315,896	35	33	1,942,058	1,584,952	350	388	865,069	789,940
East South Central.....	23	26	275,069	242,356	19	20	346,817	293,147	9	8	462,901	380,291	106	115	278,892	174,884
Tennessee.....	8	8	481,095	416,285	17	18	532,620	461,166	9	10	841,072	699,026	88	97	302,481	278,892
Alabama.....	3	3	175,505	135,520	13	16	401,302	422,477	11	9	491,106	392,737	86	98	192,738	192,950
Mississippi.....	4	5	68,673	58,363	15	14	176,797	139,166	6	6	146,979	112,898	70	78	121,789	143,214
West South Central.....	49	46	1,904,769	1,595,622	159	163	2,333,484	2,093,924	113	89	3,521,484	2,619,208	637	816	1,499,287	1,826,362
Arkansas.....	5	5	136,591	202,347	24	23	195,597	174,295	8	7	276,074	176,614	86	112	178,087	187,658
Louisiana.....	6	5	313,305	266,012	17	14	397,290	377,117	8	7	626,271	475,772	122	175	232,582	158,914
Oklahoma.....	29	28	1,155,455	877,099	80	81	1,360,501	1,222,596	63	52	2,020,313	1,571,304	364	447	862,698	1,202,783
Texas.....	28	28	617,354	94,923	82	80	949,379	832,090	42	29	1,332,293	(D)	319	402	993,316	830,689
Mountain.....	5	8	92,136	46,594	15	10	77,831	69,530	10	6	128,193	118,372	52	69	100,325	94,213
Idaho.....	3	3	26,171	27,915	4	5	69,877	75,996	4	2	81,272	52,806	40	55	56,860	88,368
Wyoming.....	5	3	168,647	(D)	22	22	375,041	34,333	2	2	23,253	59,259	100	27	41,611	39,774
Colorado.....	1	2	125,106	111,602	3	12	162,438	131,302	8	8	600,433	539,259	100	117	627,717	326,010
New Mexico.....	2	1	125,106	111,602	3	12	162,438	131,302	8	8	600,433	539,259	100	117	627,717	326,010
Arizona.....	5	5	125,106	(D)	9	8	120,628	86,887	4	3	214,061	(D)	41	35	75,799	30,145
Utah.....	2	1	(D)	(D)	5	7	41,763	114,862	4	2	214,061	(D)	41	35	75,799	30,145
Nevada.....	2	1	27,256	(D)	5	7	41,763	114,862	4	2	214,061	(D)	41	35	75,799	30,145
Pacific.....	44	47	2,282,114	118,658	148	135	3,725,681	3,011,990	41	35	4,574,382	431,216	607	692	3,456,970	2,146,251
Washington.....	6	5	315,175	262,085	21	20	586,162	596,566	10	5	818,239	431,216	138	140	803,350	415,990
Oregon.....	4	4	262,085	262,085	19	15	357,420	313,543	6	4	586,755	(D)	80	87	315,115	155,986
California.....	34	38	1,704,854	2,031,775	108	100	2,782,098	2,101,861	25	26	3,169,368	2,672,359	389	465	2,357,925	1,275,065

D Withheld to avoid disclosure of individual company figures.

<sup>1</sup> Calculated by aggregating circulation per issue for individual publications from publishers reporting receipts on a combined frequency of issue basis as well as from publishers reporting receipts separately for each frequency of issue.



## MANUFACTURES—INDUSTRY STATISTICS

Table 6F.—PERIODICALS, NUMBER, CIRCULATION, AND RECEIPTS, BY TYPE, 1954 AND 1947

Type of Periodicals	1954						1947					
	Number of periodicals published	Aggregate circulation per issue	Receipts			Number of periodicals published	Aggregate circulation per issue	Receipts				
			Total <sup>1</sup>	Subscriptions and sales	Advertising			Total	Subscriptions and sales	Advertising		
			(\$1,000)	(\$1,000)	(\$1,000)			(\$1,000)	(\$1,000)	(\$1,000)		
Total.....	3,427	449,284,696	1,394,073	530,580	863,493	4,610	384,628,482	1,019,473	407,016	612,457		
Agriculture and farm-general.....	52	16,912,968	46,318	6,964	39,354	95	16,514,389	36,811	5,770	31,041		
Agriculture and farm specialized.....	74	2,709,526	10,030	1,611	8,419	144	6,004,983	10,957	1,985	8,972		
Art, music, and drama.....	45	4,596,976	15,928	11,782	4,146	54	2,730,156	5,322	2,364	2,958		
Business and finance.....	122	3,030,311	46,751	12,615	34,136	127	2,013,301	31,211	14,032	17,179		
Comics.....	258	119,038,608	39,524	35,360	4,164	263	89,478,359	41,829	35,873	5,956		
Educational.....	84	15,589,838	18,224	14,926	3,298	177	14,565,480	21,845	17,050	4,795		
Fashions.....	46	6,112,709	37,840	13,375	24,465	38	5,746,386	31,603	8,494	23,109		
Fiction.....	95	16,117,011	25,934	17,840	8,094	180	35,331,915	44,572	31,158	13,414		
Fraternal and clubs.....	52	861,723	1,645	868	777	98	14,388,346	9,163	5,904	3,259		
General interest.....	117	87,651,050	292,838	122,285	170,553	203	264,228,438	232,859	2120,268	2208,291		
Geography and travel.....	16	4,700,660	17,110	13,253	3,857	20	1,187,209	4,667	2,683	1,984		
Home and garden.....	31	19,791,229	90,850	29,144	61,706	32	11,867,496	39,874	12,259	27,615		
Juvenile.....	13	6,292,057	8,066	6,668	1,398	17	2,837,227	6,706	3,266	3,440		
Labor.....	44	1,123,868	1,894	1,057	837	183	3,694,105	6,877	3,511	3,366		
Legal.....	44	164,301	2,851	2,487	364	85	273,256	3,319	1,831	1,488		
Medical and dental.....	77	1,600,611	12,138	6,424	5,714	143	1,893,790	11,392	4,668	6,724		
Military and naval.....	15	798,227	5,884	2,983	2,901	21	622,199	1,841	1,206	635		
Motion pictures.....	26	10,432,326	14,260	9,111	5,149	31	8,271,604	15,032	7,695	7,337		
News and current events.....	51	11,809,093	192,870	48,816	144,054	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )	( <sup>2</sup> )		
Religious.....	465	28,078,676	32,563	27,713	4,850	951	47,190,846	42,752	36,050	6,702		
Science and technology.....	40	4,261,054	11,984	7,627	4,357	106	3,917,811	13,658	7,593	6,065		
Sports, outdoor, hobbies, etc.....	334	18,901,847	76,717	31,179	45,538	206	8,976,671	36,412	21,610	14,802		
Trade (trade journals and business paper type publications):												
Merchandising.....	143	3,930,093	32,402	3,948	28,454	472	5,310,482	62,348	7,655	54,693		
Professional, institutional and service.....	143	3,126,890	31,691	6,122	25,569	298	3,099,216	31,146	6,114	25,032		
Industrial, engineering and technical...	290	5,887,888	110,820	12,981	97,839	489	6,165,707	80,015	8,829	71,186		
University, college and school.....	25	1,306,203	1,594	533	1,061	17	64,160	418	106	312		
Women's service.....	21	26,115,342	83,562	29,439	54,123	21	22,555,865	92,378	33,686	58,692		
All other.....	160	12,671,710	50,731	26,803	23,928	139	5,699,085	8,766	5,356	3,410		
Type not specified.....	544	15,671,901	181,054	26,666	54,388							

<sup>1</sup>Does not include \$18,979 thousand receipts of small establishments that were not asked to report a breakdown of total receipts.<sup>2</sup>General interest, News and Current Events periodicals were combined in 1947.

NEWSPAPERS, PERIODICALS, BOOKS, AND MISCELLANEOUS PUBLISHING

27A-19

Table 6G.—BOOK PUBLISHING: NUMBER OF COPIES SOLD AND RECEIPTS, BY DIVISIONS AND STATES, 1954 AND 1947

Division and State <sup>1</sup>	1954				1947			
	Books <sup>2</sup>		Pamphlets <sup>2</sup>		Books		Pamphlets	
	Number of copies sold	Receipts (\$1,000)	Number of copies sold	Receipts (\$1,000)	Number of copies sold	Receipts (\$1,000)	Number of copies sold	Receipts (\$1,000)
United States, total.....	770,840	628,551	267,088	25,094	487,216	435,134	402,290	20,656
Northeast.....	462,004	409,657	110,693	10,931	330,290	306,129	54,241	3,996
New England.....	45,260	47,131	11,217	960	33,428	31,271	2,230	433
Massachusetts.....	32,291	43,515	8,545	628	32,460	29,973	1,761	355
Connecticut.....	12,600	3,146	2,472	310	949	1,276	(D)	(D)
Middle Atlantic.....	416,744	362,526	99,476	9,971	296,862	274,858	52,011	3,563
New York.....	395,839	331,793	87,642	8,797	275,619	250,234	50,093	3,429
New Jersey.....	4,033	5,255	4,188	463	1,252	1,096	(D)	(D)
Pennsylvania.....	16,870	25,468	7,646	711	19,991	23,528	(D)	(D)
North Central.....	292,851	198,564	114,234	11,746	137,227	113,510	326,702	15,737
East North Central.....	269,983	172,214	78,746	8,731	113,687	97,730	180,505	14,411
Ohio.....	35,760	20,040	32,178	3,399	26,299	12,399	47,945	4,985
Indiana.....	4,652	5,630	6,803	792	4,084	3,202	(D)	(D)
Illinois.....	93,473	123,850	31,399	3,923	67,829	77,051	32,900	2,474
Michigan.....	3,674	3,440	5,724	288	2,803	1,992	(D)	(D)
Wisconsin.....	132,424	19,254	2,642	324	12,672	3,086	(D)	(D)
West North Central.....	22,868	26,350	35,488	3,015	23,540	15,780	146,197	1,326
Minnesota.....	6,664	11,451	7,514	666	(D)	(D)	(D)	(D)
Iowa.....	3,447	2,993	18,753	1,697	1,450	1,661	(D)	(D)
Missouri.....	8,876	8,678	8,435	578	6,647	5,217	6,842	418
South.....	12,965	14,005	32,587	1,515	16,557	10,865	13,214	380
South Atlantic.....	3,385	4,877	3,639	417	2,741	4,399	2,560	132
Maryland.....	942	1,754	(D)	(D)	881	1,694	(D)	(D)
Virginia.....	796	964	1,869	206	(D)	(D)	(D)	(D)
Georgia.....	498	1,534	638	41	585	746	...	...
East South Central.....	1,890	1,249	26,147	862	5,924	4,196	7,431	164
Tennessee.....	1,645	858	25,963	843	5,617	4,063	7,045	124
West South Central.....	2,901	7,879	2,801	236	7,892	2,270	3,223	84
Oklahoma.....	2,901	1,058	372	23	3,430	952	(D)	(D)
Texas.....	4,640	6,667	2,214	160	4,444	1,282	(D)	(D)
West.....	3,020	6,325	9,574	902	3,142	4,630	8,133	543
Mountain.....	156	225	1,999	139	622	565	134	22
Pacific.....	2,864	6,100	7,575	763	2,520	4,065	7,999	521
California.....	2,268	5,564	6,544	685	2,490	4,021	(D)	(D)

<sup>1</sup>Receipts from Books and Pamphlets publishing were reported for all states except Delaware, Mississippi and Wyoming; states not shown reported receipts of less than \$500 thousand from book publishing. In the case of Kansas, more than \$500 thousand receipts were reported from book publishing, but the actual amount has been withheld to avoid disclosure of individual company figures.

<sup>2</sup>Excludes \$11,774 thousand reported by small establishments that were not able to segregate their publishing receipts as between books and pamphlets.

## MANUFACTURES--INDUSTRY STATISTICS

Table 7A.--MATERIALS CONSUMED, BY KIND: 1954 AND 1947

Code	Description of materials	Purchased and consumed by publishers, or purchased by publishers and consumed by printers in printing for publishers <sup>1</sup>				Quantity (tons of 2,000 lbs.)	
		1954					
		Cost	Quantity (tons of 2,000 lbs.)				1947
			Total	For publications	For other products		
		(\$1,000)					
INDUSTRY 2711--NEWSPAPERS							
	Materials and supplies, total.....	861,850	xxx	xxx	xxx	xxx	
261211	Newsprint.....	682,861	<sup>2</sup> 5,262,177	<sup>2</sup> 5,132,262	129,915	<sup>3</sup> 4,198,973	
261213	Groundwood, paper, uncoated.....	8,590	61,194	53,614	7,580	xxx	
261215	Book paper, uncoated.....	3,880	15,588	10,328	5,260	xxx	
261217	Fine paper, uncoated.....	6,427	(NA)	(NA)	(NA)	xxx	
264151	Coated paper, all types.....	5,094	(NA)	(NA)	(NA)	xxx	
261251	All other paper and board (short tons).....	12,845	(NA)	(NA)	(NA)	xxx	
970000	All other materials, containers, and supplies consumed including ink, metal, type, wrapping paper, etc., and paper not specified by kind.....	142,153	xxx	xxx	xxx	xxx	
INDUSTRY 2721--PERIODICALS							
	Materials and supplies, total.....	322,515	xxx	xxx	xxx	1,405,769	
261211	Newsprint.....	29,581	221,992	200,896	21,096	238,095	
261213	Groundwood, paper, uncoated.....	15,238	83,768	78,104	5,664	229,047	
261215	Book paper, uncoated.....	21,008	96,838	94,761	2,077	507,201	
261217	Fine paper, uncoated.....	1,547	6,037	4,586	1,451	4,806	
264151	Coated paper, all types.....	172,232	703,236	693,816	9,420	417,981	
261251	All other paper and board (short tons).....	1,648	6,797	4,706	2,091	8,639	
970000	All other materials, containers, and supplies consumed including ink, metal, type, wrapping paper, etc., and paper not specified by kind.....	81,261	xxx	xxx	xxx	xxx	
INDUSTRY 2731--BOOKS; PUBLISHING AND PRINTING							
	Materials and supplies, total.....	98,870	xxx	xxx	xxx	251,634	
261211	Newsprint.....	730	5,049	2,835	2,214	7,387	
261213	Groundwood paper, uncoated.....	4,044	25,115	21,761	3,354	33,769	
261215	Book paper, uncoated.....	46,986	180,089	165,723	14,366	176,575	
261217	Fine paper, uncoated.....	1,999	(NA)	(NA)	(NA)	9,558	
264151	Coated paper, all types.....	16,377	60,214	58,918	1,296	19,162	
261251	All other paper and board.....	1,964	6,921	6,268	653	5,183	
970000	All other materials, containers, and supplies consumed including ink, metal, type, wrapping paper, etc., and paper not specified by kind.....	26,770	xxx	xxx	xxx	xxx	
INDUSTRY 2732--BOOK PRINTING							
	Materials and supplies, total.....	62,557	xxx	xxx	xxx	xxx	
261211	Newsprint.....	925	6,496	852	5,644	xxx	
261213	Groundwood, paper, uncoated.....	2,509	13,729	5,969	7,760	xxx	
261215	Book paper, uncoated.....	15,616	56,435	48,157	8,278	xxx	
261217	Fine paper, uncoated.....	3,660	10,388	3,768	6,620	xxx	
264151	Coated paper, all types.....	7,817	26,144	15,955	10,189	xxx	
261251	All other paper and board (short tons).....	14,692	(NA)	(NA)	(NA)	xxx	
970000	All other materials, containers, and supplies consumed including ink, metal, type, wrapping paper, etc., and paper not specified by kind.....	17,338	xxx	xxx	xxx	xxx	
INDUSTRY 2741--MISCELLANEOUS PUBLISHING							
	Materials and supplies, total.....	50,801	xxx	xxx	xxx	92,820	
261211	Newsprint.....	5,969	42,879	34,714	8,165	63,766	
261213	Groundwood, paper, uncoated.....	1,867	8,885	8,128	757	2,969	
261215	Book paper, uncoated.....	5,664	20,107	14,786	5,321	11,057	
261217	Fine paper, uncoated.....	2,836	8,592	7,390	1,202	10,243	
264151	Coated paper, all types.....	1,877	6,013	4,339	1,674	2,123	
261251	All other paper and board (short tons).....	950	2,721	1,777	944	2,662	
970000	All other materials, containers, and supplies consumed including ink, metal, type, wrapping paper, etc., and paper not specified by kind.....	31,638	xxx	xxx	xxx	xxx	

<sup>1</sup>The classification "Newspaper Publisher" does not include publishers of supplements prepared for issuance and sale by publishers of Sunday newspapers. Publishers of such supplements and their newsprint consumption are reported in Industry 2721, Periodicals (See text).

<sup>2</sup>In addition 86,150 tons of newsprint was reported by newspaper publishers as purchased and consumed by printers in printing their publications.

<sup>3</sup>The 1947 total includes not only the newsprint reported by newspaper publishers as purchased and consumed, or purchased by newspaper publishers and consumed by printers in the printing of their publications, but also the newsprint purchased by printers for use in printing publications of newspaper publishers. (See Table 7B for comparable totals by States.)

## Paper definitions:

Newsprint includes standard and superstandard newsprint in rolls and sheets.

Uncoated Groundwood Paper includes "A" and "B" printing, catalog, directory, rotogravure, and all other uncoated groundwood paper.

Uncoated Book Paper includes machine finish, English finish, antique, bulking, eggshell, supercalendered, offset, label and wrapper paper, poster, and all other uncoated book paper.

Uncoated Fine Paper includes bond, writing, ledger, manifold, bristol (except bogus), cover, text, and all other uncoated fine paper.

Coated Paper includes all paper machine-coated and off-the-machine (conversion) coated printing paper.

NEWSPAPERS, PERIODICALS, BOOKS, AND MISCELLANEOUS PUBLISHING

27A-21

Table 7B.--NEWSPRINT CONSUMED IN NEWSPAPER PUBLISHING (INDUSTRY 2711), BY DIVISIONS AND STATES: 1954 AND 1947  
(Quantities in tons of 2,000 pounds)

Division and State	Total consumption of newsprint by Industry 2711	1954				Purchased by printers for printing publications of newspaper publishers	Total consumption of newsprint by Industry 2711 <sup>2</sup>
		Purchased and consumed by newspaper publishers, purchased by newspaper publishers and consumed by printers in printing publications <sup>1</sup>					
		Total purchased by publishers	For publications	For other products			
United States, total.....	5,348,327	5,262,177	5,132,262	129,915	86,150	4,198,973	
Northeast.....	1,662,079	1,627,683	1,582,571	45,111	34,396	1,603,135	
New England.....	330,238	325,149	317,911	7,238	5,089	283,745	
Maine.....	15,300	15,243	14,907	336	57	12,969	
New Hampshire.....	6,631	6,428	6,075	353	203	4,427	
Vermont.....	3,488	3,488	3,391	97	..	2,868	
Massachusetts.....	214,394	213,040	209,049	3,991	1,354	201,971	
Rhode Island.....	28,816	27,211	26,094	1,117	1,605	21,119	
Connecticut.....	61,609	59,739	58,395	1,344	1,870	40,391	
Middle Atlantic.....	1,331,840	1,302,533	1,264,660	37,873	29,307	1,319,390	
New York.....	745,710	731,543	709,217	22,326	14,167	855,735	
New Jersey.....	128,180	127,635	118,014	9,621	545	77,165	
Pennsylvania.....	457,950	443,355	437,429	5,926	14,595	386,490	
North Central.....	1,709,282	1,680,972	1,636,333	44,639	28,310	1,317,432	
East North Central.....	1,303,534	1,281,903	1,250,585	31,318	21,631	956,398	
Ohio.....	367,480	355,551	349,976	5,575	11,929	220,118	
Indiana.....	124,734	124,497	123,010	1,487	237	94,618	
Illinois.....	422,014	419,138	415,029	4,109	2,876	368,017	
Michigan.....	258,317	254,908	247,710	7,198	3,409	196,305	
Wisconsin.....	130,989	127,809	114,860	12,949	3,180	77,340	
West North Central.....	405,748	399,069	385,748	13,321	6,679	361,034	
Minnesota.....	109,483	108,632	106,908	1,724	851	91,826	
Iowa.....	75,232	70,981	68,693	2,288	4,251	59,461	
Missouri.....	115,088	113,916	112,744	1,172	1,172	146,775	
North Dakota.....	7,156	7,147	6,709	438	9	5,478	
South Dakota.....	8,367	8,338	7,664	674	29	5,503	
Nebraska.....	41,686	41,616	40,014	1,602	70	26,939	
Kansas.....	48,736	48,439	43,016	5,423	297	25,052	
South.....	1,198,069	1,182,241	1,154,232	28,007	15,828	771,753	
South Atlantic.....	605,076	596,838	584,014	12,824	8,238	391,785	
Delaware.....	9,459	9,459	9,363	96	...	5,430	
Maryland.....	90,890	87,409	85,045	2,364	3,481	70,536	
District of Columbia.....	120,025	119,412	119,340	72	613	77,132	
Virginia.....	66,812	65,700	63,585	2,115	1,112	40,339	
West Virginia.....	32,125	31,951	31,714	237	174	23,025	
North Carolina.....	66,531	66,214	64,112	2,102	317	42,615	
South Carolina.....	29,956	29,444	26,063	3,381	512	13,695	
Georgia.....	75,828	75,521	74,414	1,107	307	51,913	
Florida.....	113,449	111,728	110,377	1,350	1,722	67,100	
East South Central.....	200,151	199,555	189,705	9,850	596	139,697	
Kentucky.....	49,879	49,834	49,269	565	45	34,802	
Tennessee.....	82,422	82,312	73,589	8,723	110	60,347	
Alabama.....	54,504	54,099	53,772	327	405	36,351	
Mississippi.....	13,346	13,310	13,075	235	36	8,197	
West South Central.....	392,842	385,848	380,515	5,333	6,994	240,271	
Arkansas.....	20,683	20,575	20,135	440	108	14,351	
Louisiana.....	71,677	71,657	70,615	1,042	20	49,942	
Oklahoma.....	83,124	81,473	80,776	697	1,651	34,851	
Texas.....	217,358	212,143	208,989	3,154	5,215	141,127	
West.....	778,897	771,280	759,123	12,158	7,616	506,653	
Mountain.....	138,610	138,251	133,953	4,298	359	74,854	
Montana.....	8,470	8,371	8,096	275	99	5,263	
Idaho.....	5,498	5,493	5,248	245	5	4,463	
Wyoming.....	3,342	3,331	1,932	1,400	10	1,777	
Colorado.....	66,360	66,294	65,525	769	66	33,815	
New Mexico.....	7,862	7,712	7,671	41	150	2,452	
Arizona.....	21,787	21,758	21,578	180	29	10,640	
Utah.....	21,419	21,419	20,680	739	...	14,570	
Nevada.....	3,872	3,872	3,223	649	...	1,874	
Pacific.....	640,287	633,030	625,170	7,860	7,257	431,699	
Washington.....	90,318	86,841	84,799	2,042	3,477	63,641	
Oregon.....	61,046	60,744	60,006	738	302	44,178	
California.....	488,923	485,445	480,365	5,080	3,478	323,880	

<sup>1</sup>The classification "Newspaper Publisher" does not include publishers of supplements prepared for issuance and sale by publishers of Sunday newspapers. Publishers of such supplements and their newsprint consumption are reported in Industry 2721, Periodicals (see text for more complete explanation).

<sup>2</sup>As in 1954, these figures include not only the newsprint purchased by newspaper publishers for use in printing their publications but also the newsprint purchased by printers for use in printing publications of newspaper publishers.



## MANUFACTURES--INDUSTRY STATISTICS

Table 8.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY INDUSTRY SPECIALIZATION AND PRIMARY PRODUCT CLASS SPECIALIZATION, FOR THE UNITED STATES: 1954

(This table presents selected statistics for establishments classified according to their degree of specialization in products primary to the industry. The establishments are classified in two ways: (1) by industry specialization—the degree of specialization in all primary products of the industry; and (2) by product-class specialization—the degree of specialization in the largest product class of the establishment. The degree of "industry specialization" for an establishment represents the ratio of its primary product shipments to its total product shipments, primary and secondary. The degree of "product-class specialization" for an establishment represents the ratio of its largest product class shipments to its total product shipments, primary and secondary. Data are not shown for some industries, product classes, and specialization ranges for a variety of reasons, consequently, detailed figures frequently do not add to the totals. See Introduction for detailed explanation.)

Ind. or prod- uct class No.	Industry or product class by percent of specialization	Estab- lish- ments, number	All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
2711	NEWSPAPERS (entire industry).....	8,646	281,799	1,262,793	148,941	281,198	667,058	2,144,223	946,815	3,091,027
	Establishments with:									
	90% or more specialization.....	7,791	268,431	1,212,049	140,779	265,512	637,118	2,062,627	918,433	2,981,048
	75-89% specialization.....	437	6,257	22,506	5,939	7,609	13,894	36,768	10,558	47,326
	50-74% specialization.....	282	4,309	16,957	2,628	4,956	9,659	26,470	9,155	35,626
	All other <sup>1</sup> .....	136	2,800	11,280	1,593	3,119	6,385	18,358	8,668	27,026
27510 <sup>2</sup>	Commercial printing, letterpress and gravure: All establishments specializing in product class. Establishments with:	711	7,096	24,838	5,239	9,817	18,305	37,877	13,881	51,758
	90% or more specialization.....	29	287	975	218	422	730	1,354	684	2,039
	75-89% specialization.....	80	903	3,332	671	1,251	2,518	4,940	1,933	6,873
	50-74% specialization.....	339	3,520	12,442	2,622	4,911	9,157	19,130	7,025	26,156
	Less than 50% specialization.....	263	2,385	8,088	1,727	3,232	5,899	12,451	4,237	16,689
2721	PERIODICALS (entire industry).....	2,045	62,428	312,695	16,348	29,614	68,218	795,543	645,416	1,440,961
	Establishments with:									
	90% or more specialization.....	1,794	48,670	252,945	11,882	20,871	51,021	673,845	554,192	1,228,037
	75-89% specialization.....	102	5,483	26,562	1,708	3,272	6,445	50,104	38,016	88,121
	50-74% specialization.....	115	6,266	25,288	2,112	4,114	8,444	62,471	32,369	94,841
	All other <sup>1</sup> .....	34	2,007	7,900	644	1,356	2,307	9,121	20,838	29,959
2732	BOOK PRINTING (entire industry).....	598	22,695	100,439	19,090	37,927	78,356	144,692	76,635	221,328
	Establishments with:									
	90% or more specialization.....	302	8,745	38,335	7,548	15,289	30,733	56,901	27,744	84,646
	75-89% specialization.....	69	6,414	26,431	5,472	10,201	21,288	36,794	17,705	54,500
	50-74% specialization.....	184	5,027	23,575	4,052	8,146	17,307	34,115	21,685	55,801
	All other <sup>1</sup> .....	43	2,508	12,097	2,017	4,290	9,027	16,880	9,500	26,381
2741	MISCELLANEOUS PUBLISHING (entire industry).....	946	18,378	73,174	5,271	9,570	24,090	149,310	81,931	231,242
	Establishments with:									
	90% or more specialization.....	807	11,636	43,272	2,443	4,128	12,772	91,874	56,324	148,199
	75-89% specialization.....	41	2,110	10,236	820	1,596	3,449	16,339	5,606	21,946
	50-74% specialization.....	74	1,864	7,615	1,029	1,800	4,050	18,372	8,921	27,294
	All other <sup>1</sup> .....	24	2,766	12,050	978	2,044	3,817	22,724	11,079	33,802

<sup>1</sup>This class includes data for establishments with less than 50% specialization in the primary products of the industry and establishments engaged exclusively in contract work defined in the industry. Miscellaneous small statistical adjustments are also included.

<sup>2</sup>These data reflect the activities of establishments specializing in commercial or job printing but because they are also engaged in newspaper publishing, they are classified in Industry 2711, "Newspapers." (See text for fuller explanation.)

Table 9.—RECEIPTS FROM SALES OF SELECTED PRODUCTS, BY CLASS OF CUSTOMER; 1954

Class of customer	Receipts											
	All books	Type of book										
		Texts and workbooks (Codes 2731011, -18)		Religious (Codes 2731021, -23, -25, -27, -29)		Technical, scientific and professional (Codes 2731031, -35)		Trade (Codes 2731041, -43, -45, -47)		Encyclopedia and other (Codes 2731048, -49, -51, -55, -61)		
		Receipts (\$1,000)	Percent of total	Receipts (\$1,000)	Percent of total	Receipts (\$1,000)	Percent of total	Receipts (\$1,000)	Percent of total	Receipts (\$1,000)	Percent of total	
Total sales of books by all establishments...	628,551	180,445	xxx	36,132	xxx	63,635	xxx	220,160	xxx	128,179	xxx	
Sales of books by establishments reporting class of customer data, total.....	570,728	159,724	100	35,157	100	62,228	100	206,100	100	107,519	100	
Sales to foreign customers or their agents, including shipments to reporting company's foreign locations.....	19,656	8,157	5	994	3	3,309	5	5,638	3	1,558	1	
Sales to foreign subscribers of book clubs (D).....	...	...	...	(D)	-	...	...	(D)	-	(D)	-	
Shipments to company's own retail stores..	28,812	(D)	6	{ 5,028	14	(D)	-	2,407	1	(D)	-	
Sales to specialized book exporters.....	(D)	(D)										(D)
Sales to wholesale and retail book distributors in the United States.....	192,134	34,369	22	18,678	53	17,570	28	115,968	56	5,549	5	
Publisher's sales of bound books to book clubs.....	2,664	...	...	716	2	...	...	1,948	1	...	...	
Sales to government bodies:												
Federal government, including Armed Forces.....	5,743	1,625	1	(D)	-	1,459	2	(D)	-	1,686	2	
State and local governments, including public school systems.....	102,404	89,598	56	...	...	3,369	5	3,120	2	6,317	6	
Sales to libraries:												
Public libraries.....	3,738	552	(2)	23	(2)	299	(2)	1,683	1	1,181	1	
College and university libraries.....	6,932	4,396	3	306	1	1,152	2	310	(2)	768	1	
Sales to individual consumers:												
Book club sales (books printed by or for the book club).....	66,431	(D)	-	(D)	-	(D)	-	63,813	31	(D)	-	
Mail order sales.....	31,716	3,150	2	5,030	14	10,842	17	7,934	4	4,760	4	
Subscription sales (door-to-door).....	67,911	(D)	-	992	3	6,746	11	(D)	-	58,924	55	
Other sales to individuals <sup>2</sup> .....	39,971	7,323	5	2,779	8	15,580	25	1,171	1	13,118	12	

D Withheld to avoid disclosing figures for individual companies.

2 Less than 0.05 percent.

XXX Not applicable.

<sup>1</sup>Includes about \$18 million of receipts reported by certain small establishments that were not asked to report a breakdown of their total receipts by type of book.<sup>2</sup>Believed to include a significant volume of "mail order sales" and "subscription sales (door-to-door)" reported by publishers whose records did not permit them to report their sales to individual consumers in the detail requested. The types of books which appear most affected by the loss of detail in sales to this class of customer are in the technical, scientific, and professional category.



## Commercial Printing; Lithographing; Greeting Cards; Bookbinding; and Related Industries

This report shows 1954 Census of Manufactures statistics for establishments classified in each of the following industries:

Code	Title
2751--	Commercial Printing
2761--	Lithographing
2771--	Greeting Cards
2781--	Bookbinding
2782--	Blankbooks and Paper Ruling
2783--	Loose-Leaf Binders and Devices
2789--	Miscellaneous Bookbinding Work

Two types of reporting forms were used to canvass these industries. A special short form MC-27C was used to collect a minimum of information from establishments employing fewer than six persons, while the basic form MC-27B was used to collect more detailed data from the larger establishments. Information reported on both of these forms has been combined in this report. Separate data on the more detailed information reported for the larger establishments are shown in Table 3.

### 2751--Commercial Printing

This industry comprises establishments primarily engaged in commercial or job printing. It includes general printing shops as well as shops specializing in printing newspapers and periodicals for others, and those which specialize in gravure, roto-gravure, and rotary photogravure printing; establishments primarily engaged in making gravure plates for others and those which print by screen processes (except decalcomanias classified in Industry 2761, and textile printing in Industry 2261). In addition to printing on paper, Industry 2751 includes establishments primarily engaged in printing on wood (e.g. pencils), on metal, plastics, etc. Letterpress, gravure, and screen process printing are the principal processes employed by establishments classified in Industry 2751.

Establishments primarily engaged in printing books (without publishing) are classified in Industry 2732, Book Printing; greeting cards in Industry 2771; printing from lithographic plates in Industry 2761, Lithographing; and embossing on books in Industry 2789, Miscellaneous Bookbinding Work, but those establishments primarily engaged in embossing on paper are classified in Industry 2751. For a detailed list of primary activities of Industry 2751, refer to Table 6A, product codes 2751011 to 2751085.

Many of the plants in Industry 2751 are combination letterpress-lithographing plants and therefore are similar in character to the combination plants classified in Industry 2761, Lithographing. The classification of these combination plants was determined by the individual establishment's major source of revenue, thus combination plants which reported the letterpress process as their major process (based on value of printing material produced) are classified in this industry and all plants reporting lithography as their major process are classified in Industry 2761, Lithographing.

The statistics for Industry 2751 include data reported by printing departments of establishments primarily engaged in other manufacturing or non-manufacturing activities, where book records were available to provide for a separate report from the printing department.

Total receipts of Industry 2751 in 1954 amounted to \$2,202 million. This included receipts from primary activities (commercial printing) valued at \$1,863 million, receipts from secondary activities valued at \$329 million, and miscellaneous receipts of \$10 million.

Industry 2751 receipts from commercial printing in 1954 represented 85 percent of its total receipts from primary and secondary activities. In 1947, this primary activity specializa-

tion ratio was 86 percent. Secondary activities of Industry 2751 in 1954 consisted mainly of lithographing, \$156 million; book and pamphlet printing and bookbinding, \$72 million; greeting card publishing and printing, \$9 million; blankbook making, \$9 million; periodical publishing and printing, \$9 million; and numerous related activities, including such printing trade services as engraving, plate printing, typesetting, and photo-engraving, \$12 million.

Industry 2751 receipts from commercial printing in 1954 represented 86 percent of the commercial printing receipts, valued at \$2,157 million, reported by all industries. This coverage ratio in 1947 was also 86 percent. Other industries reporting receipts from commercial printing consisted mainly of Industry 2761, Lithographing, \$109 million; Industry 2711, Newspapers, \$90 million; Industry 2732, Book Printing, \$23 million; Industry 2741, Miscellaneous Publishing, \$13 million; Industry 2721, Periodicals, \$9 million; and Industry 2782, Blankbooks and Paper Ruling, \$8 million.

Table 6C provides a distribution of receipts, for 1954 and 1947, of the principal products printed by the letterpress process for which detailed product information was collected.

### 2761--Lithographing

This industry comprises establishments primarily engaged in preparing lithographic stones or metal lithographic plates, and in printing from such media. Establishments primarily engaged in making lithographic plates for others and those which print decalcomanias (by all processes) are also included in Industry 2761. The greater part of the work in this industry is performed on a job or custom basis, but in some cases lithographed calendars, business forms, maps, posters, decalcomanias, etc., are made for sale. Offset printing, photo-offset printing, and photolithography are also included in this industry. Establishments primarily engaged in lithographing books and pamphlets (without publishing) are classified in Industry 2732, Book Printing, and greeting cards in Industry 2771, Greeting Cards. (See Industry 2751, Commercial Printing, for explanation of method used in classifying combination letterpress and lithographing plants.) For a detailed list of primary activities of Industry 2761, refer to Table 6A, product codes 2761011 to 2761081.

Total receipts of Industry 2761 in 1954 amounted to \$963 million. This included receipts from primary activities (lithographing) valued at \$791 million, receipts from secondary activities valued at \$168 million, and miscellaneous receipts of \$4 million.

Industry 2761 receipts from lithographing in 1954 represented 82 percent of its total receipts (primary and secondary). In 1947, this primary activity specialization ratio was 77 percent. Secondary activities of Industry 2761 in 1954 consisted mainly of commercial printing (letterpress, gravure and screen processes), \$109 million; greeting card printing, \$6 million; and miscellaneous other related activities, including bookbinding, \$4 million, and services to the printing trade, \$4 million.

Industry 2761 receipts from lithographing in 1954 represented 79 percent of the receipts from lithographing reported by all industries, valued at \$999 million. This coverage ratio in 1947 was 77 percent. Other industries reporting receipts from lithographing in 1954 consisted mainly of Industry 2751, Commercial Printing, \$156 million; Industry 2732, Book Printing, \$15 million; Industry 2711, Newspapers, \$7 million; Industry 2741, Miscellaneous Publishing, \$4 million; and Industry 2771, Greeting Cards, \$4 million.

Table 6D provides a distribution of receipts by states, for 1954 and 1947, of the principal products printed by the lithographic process for which detailed product information was collected.



2771--Greeting Cards

This industry comprises establishments primarily engaged in designing only, manufacturing only, or designing and manufacturing greeting cards for all occasions. These products may be printed, lithographed, etched, or otherwise processed. For a detailed list of primary products and activities of Industry 2771, refer to Table 6A, product codes 2771111 to 2771281.

Total receipts of Industry 2771 in 1954 amounted to \$209 million. This included primary activities (publishers' sales and receipts from printing greeting cards for others) valued at \$195 million, receipts from secondary activities valued at \$14 million, and a negligible amount of miscellaneous receipts.

Industry 2771 receipts from publishing and printing greeting cards in 1954 represented 93 percent of its total receipts (primary and secondary). In 1947, this primary product specialization ratio was 92 percent. Secondary activities of Industry 2771 in 1954 consisted mainly of gift wrapping paper, \$4 million; lithographing, \$4 million; miscellaneous publishing, \$3 million; and commercial printing (letterpress and gravure), \$2 million.

Industry 2771 receipts from publishing and printing greeting cards in 1954 represented 89 percent of the receipts from publishing and printing greeting cards, valued at \$218 million, reported by all industries. This coverage ratio in 1947 was 87 percent. Other industries reporting receipts from publishing and printing greeting cards in 1954 consisted mainly of Industry 2751, Commercial Printing, \$9 million, and Industry 2761, Lithographing, \$8 million.

2781--Bookbinding

This industry comprises establishments primarily engaged in edition, trade, job, and library bookbinding. Establishments primarily engaged in binding books printed elsewhere are classified in this industry, but those primarily binding books printed in the same establishment are classified in Group 273, Books. For a detailed list of primary activities of Industry 2781, refer to Table 6A, product codes 2781011 to 2781071.

Total receipts of Industry 2781 in 1954 amounted to \$112 million. This included receipts from primary activities (bookbinding) valued at \$101 million, receipts from secondary activities valued at \$9 million, and miscellaneous receipts of about \$1 million.

Industry 2781 receipts from bookbinding in 1954 represented 91 percent of its total receipts from primary and secondary activities. In 1947, this primary activity specialization ratio was 84 percent. Secondary activities of Industry 2781 in 1954 consisted mainly of loose-leaf binders and bindery services, except bookbinding, \$3 million; book and pamphlet printing, \$2 million; and blankbook making, \$2 million.

Industry 2781 receipts from bookbinding in 1954 represented 86 percent of the receipts, valued at \$117 million, reported by all industries for binding books printed elsewhere. This coverage ratio in 1947 was 87 percent. Other industries reporting receipts for binding books printed elsewhere in 1954 consisted mainly of Industry 2732, Book Printing, \$5 million; Industry 2761, Lithographing, \$4 million; and Industry 2751, Commercial Printing, \$3 million.

The above data for bookbinding receipts do not include the value of bookbinding activity of establishments binding books printed in the same establishment (see text for Industries 2731 and 2732).

2782--Blankbooks and Paper Ruling (Full Standard Industrial Classification Title: Blankbook making and Paper Ruling)

This industry comprises establishments primarily engaged in manufacturing blankbooks such as ledgers, account books, and composition books; receipt pads; check books; inventory and similar blankbooks; albums; sales books; and scrapbooks (including leather bound); and in ruling paper. Establishments primarily engaged in manufacturing loose-leaf notebooks and loose-leaf notebook forms are classified in Industry 2783, Loose-Leaf Binders and Devices. For a detailed list of the primary activities of Industry 2782, refer to Table 6A, product codes 2782011 to 2782061.

Total receipts of Industry 2782 in 1954 amounted to \$79 million. This included receipts from primary activities (blankbooks and paper ruling) valued at \$60 million, receipts from secondary activities valued at \$19 million, and a negligible amount of miscellaneous receipts.

Industry 2782 receipts from blankbooks and paper ruling in 1954 represented 76 percent of its total receipts from primary and secondary activities. In 1947, this primary product specialization ratio was 85 percent. The decline in its primary product specialization ratio since 1947 reflects, for the most part, the increasing overlap between the products made by Industry 2782 (e.g., sales books) and printed products such as business forms which are classified in Industries 2751 and 2761 according to the printing process employed. Secondary activities of Industry 2782 in 1954 consisted mainly of business forms and other letterpress commercial printing, \$8 million; lithographing (chiefly business forms) \$4 million; manufacture of loose-leaf notebooks and fillers \$2 million; and notebooks and other converted paper products, not elsewhere classified, \$2 million.

Industry 2782 receipts from blankbooks and paper ruling in 1954 represented 66 percent of the receipts from blankbooks and paper ruling, valued at \$92 million, reported by all industries. This coverage ratio in 1947 was 67 percent. Other industries reporting receipts from blankbooks and paper ruling in 1954 consisted mainly of Industry 2751, Commercial Printing, \$9 million; Industry 2783, Loose-Leaf Binders and Devices, \$8 million; and Industry 2761, Lithographing, \$3 million.

2783--Loose-Leaf Binders and Devices (Full Standard Industrial Classification Title: Library and Loose-Leaf Binder Manufacturing)

This industry comprises establishments primarily engaged in manufacturing loose-leaf devices, library binders, and loose-leaf forms and fillers, including loose-leaf notebooks. For a detailed list of the primary products of Industry 2783, refer to Table 6A, product codes 2783011 to 2783051.

Total shipments of Industry 2783 in 1954 amounted to \$79 million. This included shipments of primary products (loose-leaf binders and devices) valued at \$58 million, receipts from secondary activities valued at \$20 million, and miscellaneous receipts of \$1 million.

Industry 2783 shipments of loose-leaf binders and devices in 1954 represented 74 percent of its total receipts (primary and secondary). In 1947, this primary product specialization ratio was 75 percent. Secondary activities of Industry 2783 in 1954 consisted mainly of blankbook making and paper ruling, \$8 million; and stationery, tablets and related products \$3 million.

Industry 2783 receipts from loose-leaf binders and devices in 1954 represented 82 percent of the loose-leaf binders and devices, valued at \$70 million, shipped by all industries. This coverage ratio in 1947 was 83 percent. Other industries shipping loose-leaf binders and devices in 1954 consisted mainly of Industry 2751, Commercial Printing, \$4 million; and Industry 2782, Blankbook and Paper Ruling, \$2 million.

2789--Miscellaneous Bookbinding Work (Full Standard Industrial Classification Title: Miscellaneous Work Related to Bookbinding)

This industry comprises establishments primarily engaged in book or paper bronzing, gilding, and edging; map and sample mounting; beveling, deckling, embossing of books (except embossing on paper, classified in Industry 2751, Commercial Printing), gold stamping, indexing of books, and paper cutting (except die-cutting Industry 2691, Die-cut Paper and Board); and other services related to bookbinding.

Total receipts of Industry 2789 in 1954 amounted to \$22 million. This included receipts from primary activities (miscellaneous bookbinding work) valued at \$19 million, and receipts from secondary activities valued at \$3 million, and a negligible amount of miscellaneous receipts.

Industry 2789 receipts from miscellaneous bookbinding work in 1954 represented 84 percent of its total receipts from primary and secondary activities. In 1947, this primary activity specialization ratio was 87 percent. Secondary activities amounting to

\$3 million, consisted of loose-leaf binders and a variety of printing services.

Industry 2789 receipts from miscellaneous bookbinding work in 1954 represented 83 percent of the receipts from miscellaneous

bookbinding work, valued at \$22 million, reported by all industries. This coverage ratio in 1947 was 79 percent. Other industries reporting receipts from miscellaneous bookbinding work consisted mainly of Industry 2781, Bookbinding, \$1 million; and Industry 2782, Blankbooks and Paper Ruling \$1 million.

The general statistics (employment, payrolls, value of shipments, cost of materials, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products, and, for that matter, their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (Tables 1-4) with product statistics (Table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in Table 5A which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry made as secondary products by establishments classified in other industries.

## MANUFACTURES--INDUSTRY STATISTICS

Table 1.—GENERAL STATISTICS FOR THE UNITED STATES: 1954 AND EARLIER YEARS  
(For explanation of column captions see Introduction)

Industry and census year	Establish- ments, number	All employees		Production workers		Value added by manufacture <sup>2</sup>	Cost of materials, etc.	Value of shipments <sup>3</sup> (Receipts)
		Number <sup>1</sup>	Payroll (\$1,000)	Number <sup>1</sup>	Wages (\$1,000)			
Commercial printing (S.I.C. 2751):								
1954.....	12,073	200,233	888,659	157,567	650,828	1,357,820	844,511	2,202,074
1953 <sup>4</sup> .....	(NA)	201,697	889,721	161,898	665,229	1,392,364	785,938	2,178,302
1952 <sup>4</sup> .....	(NA)	204,033	860,901	161,467	640,363	1,331,366	725,068	2,056,434
1951 <sup>4</sup> .....	(NA)	203,019	800,717	160,433	585,440	1,239,463	707,527	1,946,990
1950 <sup>4</sup> .....	(NA)	195,993	717,831	157,313	539,647	1,091,190	607,171	1,698,361
1949 <sup>4</sup> .....	(NA)	202,138	702,248	158,419	512,702	1,054,790	558,082	1,612,872
1947.....	11,920	191,719	594,125	154,520	449,830	970,291	542,845	1,513,136
1939 <sup>5</sup> .....	10,295	(NA)	(NA)	112,389	158,685	381,892	225,909	607,801
Lithographing (S.I.C. 2761):								
1954.....	2,924	77,717	376,571	60,178	261,249	578,883	383,587	962,552
1953 <sup>4</sup> .....	(NA)	57,258	281,722	44,995	197,743	450,867	287,151	738,018
1952 <sup>4</sup> .....	(NA)	56,956	272,441	42,288	189,510	385,230	241,472	626,702
1951 <sup>4</sup> .....	(NA)	55,097	255,681	40,432	173,487	354,201	242,274	596,475
1950 <sup>4</sup> .....	(NA)	52,611	248,325	38,518	155,861	322,499	204,206	526,705
1947.....	1,415	52,408	192,657	41,367	127,151	314,132	174,437	488,569
1939 <sup>5</sup> .....	789	(NA)	(NA)	26,948	39,339	99,910	59,617	159,527
1937 <sup>6</sup> .....	516	(NA)	(NA)	22,533	33,952	78,513	50,731	129,244
1935.....	387	21,785	35,252	17,688	24,158	57,742	34,305	92,047
1933.....	346	17,378	23,350	14,579	18,123	42,192	25,996	68,188
1931 <sup>7</sup> .....	364	...	...	16,215	25,723	56,745	30,688	87,433
Greeting cards (S.I.C. 2771):								
1954.....	294	21,347	70,434	15,297	41,960	131,343	77,561	208,905
1953 <sup>4</sup> .....	(NA)	16,846	58,749	12,115	31,000	105,702	66,285	171,987
1952 <sup>4</sup> .....	(NA)	16,471	55,222	11,654	33,698	91,893	45,631	137,524
1951 <sup>4</sup> .....	(NA)	16,342	53,485	11,518	32,607	85,939	52,490	138,429
1950 <sup>4</sup> .....	(NA)	15,980	51,598	11,264	29,978	82,425	43,878	126,303
1947.....	162	18,053	43,898	12,650	23,900	81,051	42,805	123,856
1939.....	109	9,983	12,267	7,522	7,264	24,225	15,490	39,715
1937 <sup>8</sup> .....	79	(NA)	(NA)	6,847	6,491	19,490	10,146	29,636
Bookbinding (S.I.C. 2781):								
1954.....	730	17,178	58,966	15,453	48,450	84,741	27,228	111,970
1951.....	(NA)	16,316	51,098	14,043	41,396	67,305	17,741	85,046
1947.....	686	22,227	57,541	20,037	48,857	90,259	25,704	115,963
1939 <sup>9</sup> .....	620	(NA)	(NA)	14,339	16,021	33,399	11,227	44,626
Blankbooks and paper ruling (S.I.C. 2782):								
1954.....	334	8,624	29,831	6,952	20,760	47,910	31,275	79,185
1947.....	305	8,768	21,028	7,039	14,654	36,622	23,702	60,324
1939 <sup>9</sup> .....	247	(NA)	(NA)	5,126	6,315	20,528	9,733	30,261
Loose-leaf binders and devices (S.I.C. 2783):								
1954.....	154	8,199	30,948	6,329	20,788	49,651	29,018	78,670
1947.....	131	8,133	20,946	6,445	14,914	36,797	21,204	58,001
1939 <sup>9</sup> .....	132	(NA)	(NA)	3,964	4,659	13,530	7,240	20,770
Miscellaneous bookbinding work (S.I.C. 2789):								
1954.....	201	3,303	10,925	2,910	8,244	16,968	5,401	22,370
1947.....	220	3,433	7,951	2,916	6,207	13,466	3,719	17,185
1939 <sup>9</sup> .....	138	(NA)	(NA)	2,462	2,346	5,707	2,610	8,317
Total for bookbinding, blankbooks and paper ruling, loose-leaf binders and devices, and miscellaneous bookbinding work <sup>9</sup>								
1954.....	1,419	37,304	130,670	31,644	98,242	199,270	92,922	292,195
1953 <sup>4</sup> .....	(NA)	39,567	138,863	33,192	105,019	215,851	(NA)	(NA)
1951 <sup>4</sup> .....	(NA)	39,833	131,620	33,336	96,916	217,117	(NA)	(NA)
1950 <sup>4</sup> .....	(NA)	40,349	123,055	33,467	91,464	179,088	(NA)	(NA)
1947.....	1,342	42,561	107,466	36,437	84,632	177,144	74,329	251,473
1939 <sup>5</sup> .....	1,137	(NA)	25,891	29,341	73,164	73,164	30,810	103,974
1937.....	997	29,665	39,032	25,333	28,665	64,077	30,745	94,822
1935.....	1,022	24,206	30,219	20,454	21,796	51,297	22,018	73,315
1933.....	863	19,563	20,038	16,865	16,091	39,471	16,540	56,011
1931.....	1,050	(NA)	(NA)	21,216	25,356	57,276	22,504	79,780
1929.....	1,108	28,811	42,634	24,754	31,779	72,028	<sup>8</sup> 30,755	102,783

See footnotes at end of table.



Table 1.--GENERAL STATISTICS FOR THE UNITED STATES: 1954 AND EARLIER YEARS--Continued

(For explanation of column captions see Introduction)

Industry and census year	Establishments, number	All employees		Production workers		Value added by manufacture <sup>2</sup> (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments <sup>3</sup> (Receipts) (\$1,000)
		Number <sup>1</sup>	Payroll (\$1,000)	Number <sup>1</sup>	Wages (\$1,000)			
Total for bookbinding--Continued								
1927.....	1,063	25,550	37,113	21,909	28,281	61,452	<sup>8</sup> 25,875	87,327
1925.....	970	24,274	34,119	20,836	26,006	56,385	25,215	81,600
1923.....	965	23,896	32,730	20,728	25,216	52,971	23,988	76,959
1921.....	869	20,069	26,209	17,465	20,318	43,348	20,506	63,854
1919.....	1,113	24,176	26,113	20,361	18,659	42,334	23,687	66,021
1914.....	1,124	24,555	15,027	21,693	11,575	24,389	13,715	38,104
1909.....	1,054	(NA)	(NA)	19,938	9,676	20,112	<sup>8</sup> 11,630	31,742
1904.....	908	19,360	9,677	17,713	7,887	15,923	9,301	25,224
1899.....	954	17,047	7,749	15,971	6,672	12,905	7,886	20,791

NA Not available.

<sup>1</sup>For the period 1949-1954, figures are based on employment for the payroll periods ended nearest the 15th of March, May, August and November. For 1947, they represent the average of 12 monthly figures. For earlier years, the production worker average was calculated as in 1947, but the figure for all employees represents the sum of the annual average number of production workers and the number of nonproduction workers reported for one payroll period (usually in October).

<sup>2</sup>Value of products and receipts less cost of materials, supplies, fuel, electric energy and contract work. See Introduction, "Value Added by Manufacture."

<sup>3</sup>See Introduction, "Value of Shipments."

<sup>4</sup>The figures for 1949-1953 represent estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period. Estimates with a standard error in excess of 15 percent generally have been omitted from this table.

<sup>5</sup>The figures for 1939 are not entirely comparable with those for earlier years. Value added by manufacture for 1939 on a basis comparable with earlier years was \$96.7 million for "Lithographing" and \$72.2 million for the combined industries "Bookbinding," "Blankbook making and paper ruling," "Library and loose-leaf binders," and "Miscellaneous bookbinding work." No comparable figures are available for "Commercial printing" prior to 1939.

<sup>6</sup>The figures prior to 1937 are not entirely comparable with those for later years because the earlier year figures include data for some establishments primarily engaged in printing greeting cards and in lithographing of books and pamphlets for publishers, no longer classified in this industry. Value added for 1937, including data for these establishments and on a basis comparable with earlier years, was \$83.4 million.

<sup>7</sup>In 1931 some of the establishments in the discontinued industry, "Labels and tags" were transferred to "Lithographing." The figures for prior years are therefore not comparable and are not shown in this table.

<sup>8</sup>"Greeting cards" was formerly a part of the discontinued classification, "Printing and publishing, book, music and job," "Engraving, steel copper-plate, and wood, and plate printing," and "Lithographing." Separate figures are, therefore, not available prior to 1937.

<sup>9</sup>"Bookbinding," "Blankbook making and paper ruling," "Looseleaf binders and devices," and "Miscellaneous bookbinding work" formerly constituted a single classification. The separate industry figures shown for 1939-1954 have been combined in order that statistics can be shown for the entire period 1899-1954.



## MANUFACTURES—INDUSTRY STATISTICS

Table 2.—GENERAL STATISTICS BY REGIONS AND STATES: 1954 AND 1947

(For explanation of column captions see Introduction)

Industry, region, and State <sup>1</sup>	1954											1947	
	Establishments, number		All employees		Production workers			Value added by manufacture	Cost of materials, etc.	Value of shipments	Capital expenditures, new	All employees, number	Value added by manufacture
	Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)		(\$1,000)
Commercial printing (S.I.C. 2751),total...	12,073	1,671	200,233	888,659	157,567	305,988	650,828	1,357,820	844,511	2,202,074	65,822	191,719	970,291
New England.....	967	120	14,387	56,574	11,564	22,560	42,226	83,705	47,667	131,373	4,402	13,014	55,442
Maine.....	57	1	278	793	222	450	593	1,333	952	2,286	107	289	986
New Hampshire.....	41	7	1,220	4,824	1,041	1,980	3,903	6,579	3,193	9,773	207	253	918
Vermont.....	36	2	320	1,004	266	526	798	1,509	776	2,286	116	252	772
Massachusetts.....	551	70	6,590	24,639	5,173	9,907	17,750	37,012	22,308	59,321	1,832	8,005	33,851
Rhode Island.....	74	7	650	2,388	504	1,049	1,542	3,722	2,252	5,374	185	921	3,688
Connecticut.....	208	33	5,327	22,925	4,357	8,646	17,638	33,548	18,183	51,732	1,952	3,294	15,247
Middle Atlantic.....	3,469	513	59,012	267,624	48,018	92,061	203,227	407,808	267,072	674,758	17,135	54,520	295,568
New York.....	2,164	332	31,756	146,699	25,613	48,947	107,434	234,972	145,259	380,109	6,480	32,577	193,027
New Jersey.....	442	52	9,412	45,714	7,845	15,049	36,792	64,250	42,344	106,594	2,692	7,808	40,134
Pennsylvania.....	857	129	17,843	75,211	14,558	28,065	59,000	108,585	79,468	188,054	5,961	14,135	62,407
East North Central.....	2,765	432	64,340	306,210	50,716	100,094	224,679	467,733	295,736	763,333	22,997	64,738	340,412
Ohio.....	703	108	18,488	82,684	13,977	27,609	57,204	131,676	77,782	209,459	7,560	13,520	74,334
Indiana.....	297	33	3,011	11,724	2,263	4,507	7,951	17,130	11,565	28,696	943	3,386	14,641
Illinois.....	982	187	31,036	158,925	25,359	50,147	121,793	235,011	144,757	379,768	10,863	37,131	196,782
Michigan.....	509	68	6,644	29,766	5,211	10,051	21,775	50,668	30,864	81,397	1,891	5,967	31,179
Wisconsin.....	274	36	5,159	23,110	3,904	7,778	15,954	33,246	30,766	64,012	1,737	4,734	23,476
West North Central.....	971	146	17,758	77,034	11,932	22,910	45,683	113,150	59,889	173,040	4,450	14,722	65,359
Minnesota.....	228	38	8,251	39,759	4,827	9,324	20,397	57,847	23,041	80,889	1,578	4,888	22,282
Iowa.....	153	21	1,623	5,664	1,195	2,405	3,795	8,832	4,890	13,722	354	1,790	8,699
Missouri.....	338	53	5,001	20,990	3,820	7,081	14,446	29,978	22,200	52,179	1,291	5,812	25,791
North Dakota.....	24	3	198	747	144	265	465	962	489	1,452	94	156	633
South Dakota.....	23	2	248	900	155	306	444	1,019	517	1,537	42	251	761
Nebraska.....	97	14	1,355	5,199	963	1,908	3,275	7,974	5,141	13,116	428	783	3,529
Kansas.....	108	15	1,080	3,765	827	1,618	2,858	6,535	3,607	10,143	661	1,042	3,664
South Atlantic.....	1,166	147	14,889	57,510	11,807	23,548	42,107	89,187	59,266	148,453	5,455	14,726	67,046
Delaware.....	22	5	417	1,638	363	658	1,363	2,230	1,684	3,915	65	239	(D)
Maryland.....	176	35	3,614	15,295	2,924	6,001	11,126	22,499	13,883	36,382	1,225	4,053	20,572
District of Columbia.....	73	9	1,596	7,712	1,336	2,638	6,011	11,379	7,722	19,102	420	2,338	11,071
Virginia.....	181	21	2,105	7,051	1,689	3,453	5,370	11,263	8,231	19,494	1,073	1,951	8,088
West Virginia.....	74	6	549	1,880	417	819	1,347	2,734	1,355	4,090	107	760	2,691
North Carolina.....	166	25	1,954	6,873	1,503	2,947	4,634	11,514	8,353	19,867	742	1,517	6,178
South Carolina.....	62	8	563	1,862	408	855	1,305	2,685	1,640	4,325	212	546	(D)
Georgia.....	169	22	2,354	9,224	1,809	3,564	6,453	14,692	10,661	25,353	788	2,017	9,588
Florida.....	243	16	1,734	5,974	1,355	2,610	4,495	10,188	5,734	15,923	819	1,305	5,968
East South Central.....	375	64	6,806	26,985	5,593	11,059	20,857	40,526	23,109	63,636	2,705	6,356	25,926
Kentucky.....	94	20	2,975	13,223	2,569	5,194	10,774	19,595	8,218	27,813	1,164	2,568	11,189
Tennessee.....	143	24	2,401	9,021	1,955	3,829	6,799	13,535	10,680	24,215	1,064	2,371	9,044
Alabama.....	90	14	934	3,099	720	1,336	2,184	5,224	3,108	8,332	318	978	4,093
Mississippi.....	48	6	495	1,641	348	699	1,099	2,172	1,102	3,275	158	439	1,600
West South Central.....	782	84	7,214	26,533	5,533	10,962	19,341	41,860	25,636	67,497	2,640	7,401	33,282
Arkansas.....	57	7	778	2,838	589	1,168	2,038	4,411	2,373	6,784	318	755	3,316
Louisiana.....	128	16	1,253	4,620	964	1,922	3,371	6,948	3,889	10,837	442	1,064	4,825
Oklahoma.....	119	10	940	3,444	710	1,437	2,502	5,490	3,278	8,769	390	1,062	4,366
Texas.....	478	51	4,241	15,631	3,269	6,435	11,429	25,011	16,095	41,106	1,489	4,520	20,775
Mountain.....	275	27	2,446	9,513	1,905	3,666	7,145	14,390	7,889	22,280	947	2,423	10,027
Montana.....	11	4	220	890	152	266	607	1,062	541	1,603	39	217	747
Idaho.....	21	1	170	627	123	269	411	948	379	1,327	55	222	(D)
Colorado.....	103	7	755	2,990	583	1,128	2,202	4,673	2,882	7,556	311	1,028	4,136
New Mexico.....	31	2	211	792	168	333	623	1,317	598	1,915	81	182	776
Arizona.....	44	5	423	1,689	344	659	1,316	2,512	1,295	3,808	102	301	1,303
Utah.....	47	6	499	1,806	400	753	1,406	2,782	1,701	4,483	289	327	1,539
Pacific.....	1,303	138	13,377	60,673	10,495	19,124	45,559	99,456	58,244	157,701	5,088	13,819	77,229
Washington.....	142	12	903	3,847	679	1,255	2,812	6,236	3,213	9,450	308	1,564	7,685
Oregon.....	116	10	821	3,539	650	1,203	2,680	5,807	2,928	8,735	250	949	4,868
California.....	1,045	116	11,652	53,287	9,166	16,664	40,065	87,413	52,102	139,515	4,530	11,306	64,676
Lithographing (S.I.C. 2761), total..	2,924	768	77,717	376,571	60,178	117,968	261,249	578,883	383,587	962,552	34,854	52,408	314,132
New England.....	167	47	4,777	20,524	3,799	7,508	14,557	31,520	20,020	51,541	1,986	2,883	14,065
Massachusetts.....	96	29	3,287	13,603	2,630	5,127	9,636	20,851	13,435	34,287	1,250	1,983	9,687
Rhode Island.....	17	4	567	2,540	451	883	1,828	3,717	2,126	5,844	190	423	(D)
Connecticut.....	40	13	836	4,127	648	1,371	2,869	6,470	4,186	10,657	347	439	2,364
Middle Atlantic.....	822	221	23,455	119,040	18,440	36,139	84,713	186,183	118,587	304,852	10,136	17,591	110,530
New York.....	535	137	15,738	82,098	12,435	24,521	59,160	131,338	82,311	213,736	5,961	12,218	80,616
New Jersey.....	106	22	2,502	12,045	1,894	3,550	8,366	17,387	11,821	29,204	2,154	2,426	13,649
Pennsylvania.....	181	62	5,214	24,897	4,110	8,067	17,186	37,456	24,454	61,911	2,021	2,947	16,265

See footnotes at end of table.

Table 2.—GENERAL STATISTICS BY REGIONS AND STATES: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Industry, region, and State <sup>1</sup>	1954										1947	
	Establishments, number		All employees		Production workers			Value added by manufacture	Cost of materials, etc.	Value of shipments	Capital expenditures, new	All employees, number
	Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)
Lithographing, etc.—Continued												
East North Central.....	754	243	24,610	123,644	19,258	37,988	85,340	183,948	121,257	305,203	9,843	15,127
Ohio.....	207	63	6,481	31,307	5,029	9,883	21,341	46,262	27,739	74,001	2,463	4,317
Indiana.....	56	20	1,743	8,312	1,385	2,683	5,942	12,374	6,993	19,368	528	629
Illinois.....	308	99	11,550	59,263	9,048	17,940	41,614	87,929	62,249	150,177	4,363	7,228
Michigan.....	106	34	2,483	13,013	1,915	3,729	8,469	19,619	13,302	32,921	1,021	1,389
Wisconsin.....	77	27	2,351	11,747	1,878	3,751	7,972	17,762	10,973	28,735	1,466	1,564
West North Central.....	271	70	6,894	32,071	5,343	10,370	21,852	46,774	31,230	78,005	3,620	7,544
Minnesota.....	58	13	1,611	7,918	1,297	2,478	5,817	11,074	6,215	17,289	459	4,849
Iowa.....	39	7	601	2,468	468	941	1,814	3,750	2,293	6,043	297	138
Missouri.....	122	42	3,709	17,879	2,819	5,525	11,714	26,623	19,376	46,000	2,434	2,027
Kansas.....	24	3	494	1,878	407	813	1,431	2,792	1,524	4,317	267	181
South Atlantic.....	232	56	4,886	20,767	3,947	7,684	15,069	33,415	22,459	55,874	3,092	2,344
Maryland.....	46	16	1,314	5,663	1,058	2,117	4,108	10,823	8,550	19,372	1,314	848
District of Columbia.....	30	13	1,392	6,325	1,190	2,290	4,929	8,917	5,219	14,137	566	525
Virginia.....	23	5	605	2,348	481	861	1,590	3,278	2,160	5,439	362	143
West Virginia.....	9	3	139	662	112	261	506	995	532	1,528	60	75
North Carolina.....	34	4	283	839	225	443	649	1,426	959	2,386	107	152
Georgia.....	32	8	568	2,582	440	861	1,693	4,070	2,632	6,703	235	258
Florida.....	48	4	375	1,413	295	574	1,043	2,219	1,605	3,824	412	173
East South Central.....	88	18	1,555	5,873	1,198	2,421	4,201	8,848	6,795	15,648	834	994
Kentucky.....	21	5	518	1,906	408	813	1,302	2,873	1,585	4,459	(D)	567
Tennessee.....	44	10	774	2,868	581	1,180	2,010	4,387	3,468	7,859	421	(D)
Alabama.....	17	3	242	1,058	193	397	857	1,512	1,648	3,161	(D)	(D)
West South Central.....	149	26	2,667	10,397	1,865	3,792	6,980	18,867	10,860	29,728	1,102	1,341
Oklahoma.....	25	3	336	1,098	218	440	787	2,047	1,272	3,319	101	243
Texas.....	106	23	2,236	9,018	1,567	3,196	5,944	16,274	9,199	25,474	946	967
Mountain.....	60	10	1,012	4,388	806	1,682	3,115	7,169	3,685	10,854	721	560
Colorado.....	24	7	726	3,318	579	1,273	2,336	5,498	2,528	8,026	598	332
Utah.....	11	2	143	568	110	195	369	812	620	1,433	50	113
Pacific.....	381	77	7,858	39,863	5,519	10,380	25,419	62,156	48,690	110,846	3,516	4,024
Washington.....	46	11	742	3,551	540	1,006	2,430	5,197	2,750	7,948	463	274
Oregon.....	27	5	395	1,816	301	593	1,274	3,823	1,712	5,535	128	222
California.....	308	61	6,719	34,495	4,677	8,780	21,715	53,135	44,227	97,362	2,924	3,528
Greeting cards (S.I.C. 2771), total.....	294	100	21,347	70,434	15,297	28,624	41,960	131,343	77,561	208,905	8,809	18,053
New England.....	35	15	3,916	12,257	2,768	5,025	6,720	12,672	12,627	34,299	2,440	3,089
Massachusetts.....	19	10	2,821	8,875	1,922	3,467	4,685	11,985	5,983	19,968	2,922	3,634
Middle Atlantic.....	134	47	6,576	22,490	4,968	9,417	14,434	41,605	32,813	74,418	753	5,776
New York.....	108	37	5,724	19,852	4,315	8,181	12,738	37,187	29,955	67,142	688	5,116
New Jersey.....	10	3	190	629	138	257	338	1,135	525	1,961	23	250
Pennsylvania.....	16	7	662	2,009	514	978	1,357	3,282	2,032	5,315	41	410
North Central.....	76	31	9,947	32,521	6,936	12,992	18,999	62,313	29,268	91,582	5,368	8,652
Ohio.....	15	8	3,749	12,923	2,511	4,916	7,073	23,324	10,025	33,350	(D)	3,187
Illinois.....	32	12	2,653	7,780	1,810	3,609	4,843	12,674	8,368	21,042	147	3,091
South.....	16	2	208	612	178	312	394	831	489	1,321	18	(D)
Mountain.....	4	1	46	107	34	57	85	276	129	406	35	(D)
Pacific.....	29	4	652	2,446	411	820	1,326	4,643	2,233	6,877	192	27
Bookbinding (S.I.C. 2781), total.....	730	195	17,178	58,966	15,453	29,368	48,450	84,741	27,228	111,970	3,666	22,227
New England.....	53	16	1,528	5,246	1,370	2,505	4,484	6,753	2,441	9,195	448	2,710
Massachusetts.....	37	14	1,296	4,560	1,152	2,085	3,853	5,783	2,227	8,011	393	2,620
Connecticut.....	8	2	121	579	181	347	533	809	152	961	44	44
Middle Atlantic.....	334	93	8,861	30,726	8,005	15,351	25,313	43,593	12,993	56,586	1,577	11,814
New York.....	254	73	7,311	25,772	6,631	12,620	21,320	36,021	11,201	47,223	1,347	8,688
New Jersey.....	30	5	490	1,516	449	882	1,280	2,607	723	3,331	99	997
Pennsylvania.....	50	15	1,060	3,438	924	1,848	2,712	4,963	1,068	6,032	130	2,129
East North Central.....	146	54	4,257	15,362	3,824	7,241	12,392	22,244	8,067	30,312	991	4,102
Ohio.....	37	8	504	1,548	446	828	1,255	2,413	463	2,876	63	552
Indiana.....	13	3	235	630	203	342	467	1,015	259	1,274	26	218
Illinois.....	64	28	2,542	9,310	2,294	4,420	7,654	12,905	6,276	19,181	560	2,450
Michigan.....	20	11	769	3,162	692	1,283	2,407	4,954	864	5,819	309	568
Wisconsin.....	12	4	206	711	187	367	607	957	203	1,161	32	314

See footnotes at end of table.

## MANUFACTURES--INDUSTRY STATISTICS

Table 2.—GENERAL STATISTICS BY REGIONS AND STATES: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Industry, region, and State <sup>1</sup>	1954										1947		
	Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
	Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
Bookbinding, etc.—Continued													
West North Central.....	41	7	511	1,717	446	768	1,335	2,675	814	3,489	152	543	1,885
Missouri.....	22	6	377	1,371	330	574	1,067	2,051	595	2,647	90	307	1,165
South Atlantic.....	36	9	772	2,177	692	1,359	1,765	3,316	951	4,268	126	(D)	(D)
Maryland.....	8	5	396	1,106	352	669	913	1,844	561	2,406	55	147	509
District of Columbia.....	8	1	109	396	99	198	300	480	86	566	21	82	(D)
East South Central.....	11	1	86	236	78	161	217	335	156	492	73	(D)	(D)
West South Central.....	23	5	387	1,042	342	680	861	1,905	869	2,775	68	(D)	(D)
Mountain.....	16	2	124	360	112	221	284	569	157	727	27	(D)	(D)
Pacific.....	70	8	647	2,098	581	1,076	1,796	3,348	775	4,124	201	(D)	(D)
California.....	57	8	562	1,827	504	940	1,554	2,870	672	3,542	147	477	2,239
Blankbooks and paper ruling (S.I.C. 2782), total.....	334	72	8,624	29,831	6,952	13,425	20,760	47,910	31,275	79,185	1,802	8,768	36,622
New England.....	22	9	1,005	3,167	800	1,487	2,167	4,793	4,131	8,925	180	873	(D)
Middle Atlantic.....	137	29	2,847	9,677	2,444	4,752	7,259	15,415	9,218	24,631	457	3,672	(D)
New York.....	92	20	1,858	6,221	1,563	3,002	4,503	10,646	6,475	17,122	198	2,962	13,969
New Jersey.....	15	4	654	2,358	589	1,186	2,004	3,230	2,062	5,292	117	133	(D)
Pennsylvania.....	30	5	335	1,098	291	563	751	1,536	680	2,216	141	577	2,043
East North Central.....	61	21	2,438	8,882	1,714	3,434	5,477	13,334	8,487	21,821	638	2,016	8,709
Ohio.....	18	7	1,049	4,134	581	1,196	2,034	5,918	3,119	9,038	258	1,046	4,712
Illinois.....	29	10	571	1,906	443	869	1,284	3,137	1,829	4,967	60	208	987
Michigan.....	8	3	438	1,751	340	738	1,281	2,479	2,134	4,613	(D)	374	(D)
West North Central.....	29	4	492	1,760	410	800	1,231	2,598	1,802	4,401	60	682	2,924
South.....	46	4	1,081	3,201	918	1,847	2,250	5,635	4,302	9,936	221	603	2,162
Kentucky.....	4	...	143	557	108	237	338	768	394	1,163	39	40	(D)
West.....	28	5	760	3,142	666	1,103	2,374	6,135	3,333	9,469	244	922	3,731
California.....	20	5	679	2,902	594	994	2,216	5,651	3,100	8,751	201	806	3,264
Loose-leaf binders and devices (S.I.C. 2783), total.....	154	50	8,199	30,948	6,329	12,659	20,788	49,651	29,018	78,670	1,285	8,133	36,797
New England.....	8	3	1,330	4,186	1,102	2,179	3,399	6,268	4,600	10,868	333	1,191	(D)
Middle Atlantic.....	58	22	3,066	11,056	2,512	5,008	7,883	19,017	11,926	30,944	354	2,493	(D)
New York.....	47	19	2,314	8,375	1,867	3,682	5,687	14,420	8,198	22,619	285	1,430	5,874
East North Central.....	45	15	2,410	9,866	1,777	3,603	6,088	15,123	9,064	24,188	347	3,097	14,550
Ohio.....	9	4	208	802	159	328	561	1,089	1,167	2,257	37	(D)	(D)
Illinois.....	21	6	1,269	4,995	1,045	2,136	3,498	7,555	4,639	12,195	167	1,575	6,343
Michigan.....	5	2	314	1,315	237	459	849	1,844	954	2,799	(D)	997	5,579
West North Central.....	18	5	327	1,067	256	443	698	2,160	1,346	3,507	78	383	1,992
Missouri.....	9	3	227	688	185	307	478	1,611	1,000	2,612	56	358	(D)
South.....	10	1	73	207	55	109	137	346	284	631	(D)	180	937
Pacific.....	15	4	991	4,565	625	1,314	2,579	6,735	1,796	8,532	(D)	789	3,429
Miscellaneous book-binding work (S.I.C. 2789), total.....	201	55	3,303	10,925	2,910	5,671	8,244	16,968	5,401	22,370	703	3,433	13,466
New England.....	16	3	169	470	155	306	412	847	238	1,086	39	168	635
Middle Atlantic.....	94	32	1,609	5,391	1,441	2,916	4,223	8,164	2,027	10,192	128	1,856	7,270
New York.....	80	28	1,459	4,943	1,313	2,653	3,885	7,479	1,839	9,318	121	1,654	6,381
East North Central.....	45	10	838	2,936	720	1,326	2,002	4,600	1,926	6,527	314	992	4,099
Illinois.....	32	10	761	2,684	654	1,208	1,820	4,173	1,798	5,972	304	830	3,543
West North Central.....	9	1	90	273	83	154	247	486	104	590	41	170	568

See footnotes at end of table.



Table 2.—GENERAL STATISTICS BY REGIONS AND STATES: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Industry, region, and State <sup>1</sup>	1954										1947	
	Establishments, number		All employees		Production workers			Value added by manufacture	Cost of materials, etc.	Value of shipments	Capital expenditures, new	All employees, number
	Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	
Miscellaneous book-binding work, etc.—Continued												
South.....	17	4	261	790	220	442	552	1,218	512	1,731	(D)	164
West.....	20	5	334	1,064	289	517	804	1,650	592	2,243	(D)	83

Note: Detailed figures may not add to the totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>General statistics for some producing States are not shown separately in the table (see INTRODUCTION "Confidentiality of Data for Individual Companies"). Such States are shown below with the number of establishments in each State for 1954 and, in parentheses, the number of employees or the employment-size range for that State for 1954:

S.I.C. 2751, Commercial Printing: Mountain—Wyoming, 10 (20-99); Nevada, 8 (20-99).

S.I.C. 2761, Lithographing: New England—Maine, 5 (20-99); New Hampshire, 6 (20-99); Vermont, 3 (1-19); West North Central—North Dakota, 1 (1-19); South Dakota, 1 (1-19); Nebraska, 26 (250-499); South Atlantic—Delaware, 3 (100-249); South Carolina, 7 (20-99); East South Central—Mississippi, 6 (20-99); West South Central—Arkansas, 9 (20-99); Louisiana, 9 (20-99); Mountain—Montana, 2 (1-19); Idaho, 7 (20-99); Wyoming, 2 (1-19); New Mexico, 7 (1-19); Arizona, 7 (20-99).

S.I.C. 2771, Greeting Cards: New England—Maine, 3 (1-19); New Hampshire, 3 (500-999); Vermont, 5 (100-249); Rhode Island, 3 (100-249); Connecticut, 2 (100-249); North Central—Indiana, 3 (1-19); Michigan, 3 (1-19); Wisconsin, 3 (20-99); Minnesota, 6 (100-249); Iowa, 4 (20-99); Missouri, 5 (2,205); Kansas, 5 (1,000-2,499); South—Maryland, 1 (20-99); District of Columbia, 1 (1-19); South Carolina, 1 (1-19); Georgia, 1 (1-19); Florida, 5 (1-19); Kentucky, 1 (20-99); Arkansas, 1 (1-19); Louisiana, 2 (1-19); Texas, 3 (1-19); Mountain—Colorado, 3 (20-99); New Mexico, 1 (1-19); Pacific—Oregon, 2 (1-19); California, 27 (500-999).

S.I.C. 2781, Bookbinding: New England—Maine, 4 (1-19); New Hampshire, 2 (1-19); Rhode Island, 2 (1-19); West North Central—Minnesota, 9 (20-99); Iowa, 3 (20-99); Nebraska, 4 (1-19); Kansas, 3 (20-99); South Atlantic—Delaware, 2 (20-99); Virginia, 4 (20-99); West Virginia, 1 (1-19); North Carolina, 4 (100-249); South Carolina, 1 (1-19); Georgia, 4 (20-99); Florida, 4 (20-99); East South Central—Tennessee, 3 (20-99); Alabama, 6 (1-19); Mississippi, 2 (1-19); West South Central—Arkansas, 1 (1-19); Louisiana, 3 (20-99); Oklahoma, 4 (20-99); Texas, 15 (250-499); Mountain—Idaho, 1 (1-19); Colorado, 8 (20-99); New Mexico, 1 (1-19); Arizona, 2 (1-19); Utah, 4 (20-99); Pacific—Washington, 9 (20-99); Oregon, 4 (20-99).

S.I.C. 2782, Blankbooks and Paper Ruling: New England—Maine, 1 (1-19); Massachusetts, 27 (500-999); Rhode Island, 2 (1-19); Connecticut, 3 (100-249); East North Central—Indiana, 2 (1-19); Wisconsin, 4 (250-499); West North Central—Minnesota, 8 (20-99); Iowa, 3 (1-19); Missouri, 12 (100-249); South Dakota, 1 (20-99); Nebraska, 2 (1-19); Kansas, 3 (100-249); South—Maryland, 5 (250-499); Virginia, 4 (20-99); North Carolina, 2 (1-19); South Carolina, 3 (1-19); Georgia, 3 (1-19); Florida, 6 (1-19); Tennessee, 1 (1-19); Alabama, 5 (20-99); Mississippi, 1 (1-19); Louisiana, 2 (20-99); Oklahoma, 1 (1-19); Texas, 9 (250-499); West—Colorado, 2 (1-19); Arizona, 2 (1-19); Washington, 1 (1-19); Oregon, 3 (20-99).

S.I.C. 2783, Loose-leaf Binders and Devices: New England—Maine, 1 (1-19); New Hampshire, 1 (100-249); Massachusetts, 4 (1,188); Connecticut, 2 (1-19); Middle Atlantic—New Jersey, 5 (500-999); Pennsylvania, 6 (100-249); East North Central—Indiana, 4 (100-249); Wisconsin, 6 (250-499); West North Central—Minnesota, 4 (20-99); Iowa, 3 (20-99); Nebraska, 1 (1-19); Kansas, 1 (20-99); South—District of Columbia, 1 (1-19); Georgia, 1 (1-19); Florida, 2 (1-19); Tennessee, 1 (1-19); Alabama, 1 (20-99); Louisiana, 1 (1-19); Texas, 3 (1-19); Pacific—Washington, 1 (1-19); Oregon, 1 (1-19); California, 13 (500-999).

S.I.C. 2789, Miscellaneous Bookbinding Work: New England—Massachusetts, 14 (100-249); Connecticut, 2 (20-99); Middle Atlantic—New Jersey, 6 (20-99); Pennsylvania, 8 (20-99); East North Central—Ohio, 4 (20-99); Indiana, 2 (20-99); Michigan, 5 (1-19); Wisconsin, 2 (1-19); West North Central—Minnesota, 2 (1-19); Iowa, 1 (1-19); Missouri, 6 (20-99); South—Maryland, 2 (20-99); District of Columbia, 2 (20-99); Virginia, 1 (1-19); West Virginia, 1 (1-19); North Carolina, 1 (1-19); Florida, 1 (1-19); Alabama, 1 (1-19); Mississippi, 1 (1-19); Louisiana, 4 (1-19); Oklahoma, 1 (1-19); Texas, 2 (20-99); West—Colorado, 1 (1-19); Oregon, 1 (1-19); California, 18 (250-499).



## MANUFACTURES--INDUSTRY STATISTICS

Table 3.—DETAILED STATISTICS FOR THE UNITED STATES: 1954

(For explanation of line captions see Introduction)

Item	Commercial printing (S.I.C. 2751)		Lithographing (S.I.C. 2761)		Greeting cards (S.I.C. 2771) all estab- lishments	Bookbinding (S.I.C. 2781) all estab- lishments
	All estab- lishments	Establish- ments with 90% or more primary prod- uct special- ization	All estab- lishments	Establish- ments with 90% or more primary prod- uct special- ization		
Primary product specialization ratio <sup>1</sup> .....	85	xxx	82	xxx	93	91
Coverage ratio <sup>2</sup> .....	86	xxx	79	xxx	89	86
Number of establishments, total.....	12,073	9,025	2,924	1,840	294	730
With 1-19 employees.....	10,402	8,085	2,156	1,458	194	535
With 20-99 employees.....	1,396	787	598	308	57	165
With 100 employees and over.....	275	153	170	74	43	30
All employees:						
Number (average for year).....	200,233	119,146	77,717	37,475	21,347	17,178
Payroll.....\$1,000..	888,659	519,526	376,571	181,892	70,434	58,966
Production workers:						
Number (average for year).....	157,567	96,139	60,178	29,368	15,297	15,453
Man-hours.....\$1,000..	305,988	186,803	117,968	57,397	28,624	29,368
Wages.....\$1,000..	650,828	396,592	261,249	126,648	41,960	48,450
Value added by manufacture.....do....	1,357,820	802,830	578,883	280,454	131,343	84,741
Cost of materials, etc.....do....	844,511	515,928	383,587	194,800	77,561	27,228
Value of shipments.....do....	2,202,074	1,318,623	962,552	475,331	208,905	111,970
Value added by resales.....do....	103,953	94,451	9,645	2,007	3,272	1,319
Cost of products bought and resold.....do....	449,703	428,237	25,502	7,186	8,162	3,180
Sales of products bought and resold.....do....	553,656	522,688	35,147	9,193	11,434	4,499
Capital expenditures, new.....do....	65,822	40,943	34,854	18,706	8,809	3,666
Number of employees for selected months:						
March.....	199,730	118,713	77,238	37,262	19,776	17,115
May.....	199,450	118,822	77,127	37,180	20,314	17,026
August.....	198,285	117,928	77,137	37,439	21,822	17,005
November.....	203,466	121,121	79,366	38,019	23,478	17,566
Cost of materials, fuel, electricity and contract work, total.....\$1,000..	844,511	515,928	383,587	194,800	77,561	27,228
Materials, parts, containers, and supplies consumed.....do....	715,571	444,690	313,344	1 0,727	53,408	21,678
Fuels consumed, total.....do....	1,051	686	787	459	34	19
Bituminous coal and anthracite:						
Quantity.....1,000 short tons..	56	(NA)	34	(NA)	2	1
Value.....\$1,000..	562	(NA)	340	(NA)	24	13
Fuel oil:						
Quantity.....1,000 barrels..	95	(NA)	61	(NA)	2	1
Value.....\$1,000..	383	(NA)	240	(NA)	10	( <sup>4</sup> )
Gas:						
Quantity.....million cubic feet..	423	(NA)	665	(NA)	2	7
Value.....\$1,000..	93	(NA)	202	(NA)	( <sup>4</sup> )	( <sup>4</sup> )
Other fuels:						
Value.....do....	13	(NA)	5	(NA)	...	...
Electric energy:						
Purchased:						
Quantity.....million kwh..	375	235	186	99	30	28
Cost.....\$1,000..	9,369	5,873	4,644	2,483	624	486
Sold:						
Quantity.....million kwh..	( <sup>5</sup> )	( <sup>5</sup> )	...	...	...	...
Value.....\$1,000..	( <sup>4</sup> )	( <sup>4</sup> )	...	...	...	...
Cost of contract work.....do....	118,520	64,679	64,812	31,131	23,495	5,045
Expenditures for plant and equipment, total.....do....	70,745	43,683	37,697	19,798	8,918	3,942
Capital expenditures, new.....do....	65,822	40,943	34,854	18,706	8,809	3,666
New structures and additions to plant.....do....	11,278	7,660	5,160	2,920	6,184	( <sup>3</sup> )
New machinery and equipment.....do....	54,544	33,283	29,694	15,786	2,625	3,495
Expenditures for used plant and equipment.....do....	4,923	2,740	2,843	1,092	( <sup>3</sup> )	( <sup>3</sup> )
Horsepower rating of power equipment at end of 1954:						
Horsepower of prime movers and electric motors driven by purchased energy, total.....1,000 hp..	300	194	118	52	8	12
Engines, etc., driving electric generators..... do....	12	4	3	1	1	( <sup>6</sup> )
Engines, etc., not driving electric generators.....do....	5	4	1	( <sup>6</sup> )	( <sup>6</sup> )	( <sup>6</sup> )
Electric motors driven by purchased energy.....do....	283	186	114	51	7	12

See footnotes at end of table.

Table 3.—DETAILED STATISTICS FOR THE UNITED STATES: 1954—Continued

Item	Blankbooks and paper ruling (S.I.C. 2782)		Loose-leaf binders and devices (S.I.C. 2783)		Miscellaneous bookbinding work (S.I.C. 2789)	
	All establishments	Establishments with 90% or more primary product specialization	All establishments	Establishments with 90% or more primary product specialization	All establishments	Establishments with 90% or more primary product specialization
Primary product specialization ratio <sup>1</sup> .....	76	xxx	74	xxx	84	xxx
Coverage ratio <sup>2</sup> .....	66	xxx	82	xxx	83	xxx
Number of establishments, total.....	334	232	154	113	201	160
With 1-19 employees.....	262	193	104	79	146	119
With 20-99 employees.....	54	34	31	25	52	40
With 100 employees and over.....	18	5	19	9	3	1
All employees:						
Number (average for year).....	8,624	3,619	8,199	4,064	3,303	2,304
Payroll.....\$1,000..	29,831	11,615	30,948	15,014	10,925	7,508
Production workers:						
Number (average for year).....	6,952	3,046	6,329	3,063	2,910	2,067
Man-hours.....1,000..	13,425	5,860	12,659	6,146	5,671	4,130
Wages.....\$1,000..	20,760	8,211	20,788	9,528	8,244	5,963
Value added by manufacture.....do....	47,910	19,389	49,651	23,123	16,968	11,721
Cost of materials, etc.....do....	31,275	13,214	29,018	12,599	5,401	3,051
Value of shipments.....do....	79,185	32,604	78,670	35,723	22,370	14,773
Value added by resales.....do....	871	440	463	253	17	11
Cost of products bought and resold.....do....	2,199	1,021	1,157	623	37	14
Sales of products bought and resold.....do....	3,070	1,461	1,621	877	55	26
Capital expenditures, new.....do....	1,802	( <sup>3</sup> )	1,285	( <sup>3</sup> )	703	592
Number of employees for selected months:						
March.....	8,545	3,587	8,199	4,061	3,241	2,259
May.....	8,471	3,497	8,233	4,050	3,239	2,259
August.....	8,704	3,593	8,277	4,109	3,250	2,281
November.....	8,778	3,799	8,086	4,034	3,481	2,419
Cost of materials, fuel, electricity and contract work, total.....\$1,000..	31,275	13,214	29,018	12,599	5,401	3,051
Materials, parts, containers and supplies consumed.....do....	29,057	11,694	27,948	11,938	4,788	2,674
Fuels consumed, total.....do....	24	17	14	13	18	6
Bituminous coal and anthracite:						
Quantity.....1,000 short tons..	1	(NA)	1	(NA)	1	(NA)
Value.....\$1,000..	11	(NA)	10	(NA)	15	(NA)
Fuel oil:						
Quantity.....1,000 barrels..	2	(NA)	1	(NA)	1	(NA)
Value.....\$1,000..	10	(NA)	( <sup>4</sup> )	(NA)	( <sup>4</sup> )	(NA)
Gas:						
Quantity.....million cubic feet..	11	(NA)	3	(NA)	...	...
Value.....\$1,000..	( <sup>4</sup> )	(NA)	( <sup>4</sup> )	(NA)	...	...
Electric energy:						
Purchased:						
Quantity.....million kwh..	11	3	15	4	3	2
Cost.....\$1,000..	268	103	327	126	77	52
Generated.....million kwh..	( <sup>5</sup> )	...	5	...	...	...
Sold:						
Quantity.....do....	( <sup>4</sup> )	...	...	...	...	...
Value.....\$1,000..	47	...	...	...	...	...
Cost of contract work.....do....	1,926	1,400	729	522	518	319
Expenditures for plant and equipment, total.....do....	1,900	531	1,286	501	789	626
Capital expenditures, new.....do....	1,802	( <sup>3</sup> )	1,285	( <sup>3</sup> )	703	592
New structures and additions to plant.....do....	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
New machinery and equipment.....do....	1,747	( <sup>3</sup> )	1,196	( <sup>3</sup> )	599	534
Expenditures for used plant and equipment.....do....	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
Horsepower rating of power equipment at end of 1954:						
Horsepower of prime movers and electric motors driven by purchased energy, total.....1,000 hp.	14	5	16	3	2	2
Engines, etc., driving electric generators.....do....	( <sup>6</sup> )	...	( <sup>6</sup> )	...	...	...
Engines, etc., not driving electric generators.....do....	( <sup>6</sup> )	( <sup>6</sup> )	...	...	( <sup>6</sup> )	( <sup>6</sup> )
Electric motors driven by purchased energy.....do....	14	5	16	3	2	2
Electric motors driven by energy generated at the establishment.....do....	( <sup>6</sup> )	...	( <sup>6</sup> )	...	...	...

Note: Detailed figures may not add to the totals because of independent rounding. xxx Not applicable. NA Not available. <sup>1</sup>The specialization ratio compares the given industry's shipments of its primary products to its total shipments of all products. (The primary products are listed in Tables 5B and 6A; the first 4-digits of the product code represent the industry code to which the product is primary.) Columns containing totals for establishments with 90% or more primary product specialization are shown only for those industries having a primary product specialization of less than 90%. <sup>2</sup>The coverage ratio measures the extent to which to total shipments of products primary to the given industry are shipped by establishments classified in that industry. <sup>3</sup>Less than \$500 thousand. <sup>4</sup>Less than \$5 thousand. <sup>5</sup>Less than 500 thousand kwh. <sup>6</sup>Less than 500 hp.

Table 4.--SELECTED STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR THE UNITED STATES: 1954

(Value figures in thousands of dollars. For explanation of line captions see Introduction. Data which cannot be shown without disclosing information for individual companies have been combined with figures for other size classes. A (D) appears in the column where the figure has been omitted and the combined figure is underlined and shown in the size-class to the left)

Ind. code	Industry and item	Total, all establishments	Establishments with an average of--									
			1-4 em- ployees	5-9 em- ployees	10-19 em- ployees	20-49 em- ployees	50-99 em- ployees	100-249 employees	250-499 employees	500-999 employees	1,000-2,499 employees	2,500 employees and over
2751	Commercial printing:											
	Number of establishments...	12,073	6,640	2,294	1,468	1,043	353	193	51	14	14	3
	Number of employees.....	200,233	15,793	16,188	20,577	32,075	24,303	30,493	17,968	9,953	32,879	(D)
	Value added by manufacture.	1,357,820	98,059	97,492	131,098	204,456	164,994	215,267	124,377	71,369	<u>250,703</u>	(D)
2761	Lithography:											
	Number of establishments...	2,924	1,141	512	503	413	185	127	31	11	1	...
	Number of employees.....	77,717	2,824	3,695	7,307	13,072	12,876	19,247	10,774	7,919	(D)	...
	Value added by manufacture.	578,883	20,076	26,333	52,807	95,729	99,144	145,527	81,016	<u>58,249</u>	(D)	...
2771	Greeting cards:											
	Number of establishments...	294	119	40	35	33	24	27	10	...	6	...
	Number of employees.....	21,347	264	291	512	1,105	1,795	4,264	3,592	...	9,522	...
	Value added by manufacture.	131,343	1,947	1,523	3,506	5,951	10,925	25,993	25,749	...	55,747	...
2781	Bookbinding:											
	Number of establishments...	730	274	124	137	127	38	21	6	2	1	...
	Number of employees.....	17,178	730	881	1,941	3,927	2,675	3,103	1,834	<u>2,084</u>	(D)	...
	Value added by manufacture.	84,741	3,632	4,807	9,738	19,133	13,241	14,958	9,603	<u>9,627</u>	(D)	...
2792	Blankbooks and paper ruling:											
	Number of establishments...	334	165	48	49	35	19	10	7	1	...	...
	Number of employees.....	8,624	377	334	704	1,157	1,285	1,561	<u>3,204</u>	(D)	...	...
	Value added by manufacture.	47,910	2,083	1,561	3,675	6,132	7,150	8,622	<u>18,685</u>	(D)	...	...
2783	Loose-leaf binders & devices:											
	Number of establishments...	154	58	18	28	20	11	12	3	4	...	...
	Number of employees.....	8,199	141	117	381	610	775	1,988	1,149	3,036	...	...
	Value added by manufacture.	49,651	919	641	2,205	3,500	5,169	11,931	5,928	19,356	...	...
2789	Miscellaneous bookbinding work:											
	Number of establishments...	201	73	41	32	44	8	3	...	...	...	...
	Number of employees.....	3,303	183	289	455	1,317	581	476	...	...	...	...
	Value added by manufacture.	16,968	881	1,572	2,487	6,646	2,735	2,645	...	...	...	...

Note: Detailed figures may not add to the totals because of independent rounding.

Table 5A.—INDUSTRY-PRODUCT ANALYSIS—SUMMARY OF INDUSTRY AND PRIMARY PRODUCT SHIPMENTS, SPECIALIZATION RATIOS AND COVERAGE RATIOS  
FOR THE UNITED STATES: 1954 AND 1947

Industry code	Industry and census year	Value of shipments					Value of primary products shipped			
		Total	Primary products	Secondary products	Miscel- laneous receipts	Primary product speciali- zation ratio <sup>1</sup>	Total (made in all industries)	Made in this industry	Made in other industries	Coverage ratio <sup>2</sup>
		(\$1,000) (A)	(\$1,000) (B)	(\$1,000) (C)	(\$1,000) (D)	Col. B Col. A (Percent) (E)	(\$1,000) (F)	(\$1,000) (G)	(\$1,000) (H)	Col. G Col. F (Percent) (I)
2751	Commercial printing.....1954...	2,202,074	1,863,374	328,704	9,996	85	2,157,278	1,863,374	293,904	86
	1947...	1,513,136	1,293,145	203,388	16,603	86	1,503,729	1,293,145	210,584	86
2761	Lithographing.....1954...	962,552	791,011	167,482	4,059	82	999,112	791,011	208,101	79
	1947...	488,569	373,969	109,456	5,144	77	485,081	373,969	111,112	77
2771	Greeting cards.....1954...	208,905	194,535	13,944	426	93	217,501	194,535	22,966	89
	1947...	123,856	112,446	9,775	1,635	92	129,267	112,446	16,821	87
2781	Bookbinding.....1954...	111,970	101,360	9,380	1,230	91	117,382	101,360	16,022	86
	1947...	115,963	95,665	18,902	1,396	84	109,904	95,665	14,239	87
2782	Blankbooks and paper- ruling.....1954...	79,185	60,171	18,926	88	76	91,524	60,171	31,353	66
	1947...	60,324	49,882	8,562	1,880	85	75,800	49,882	25,918	66
2783	Loose-leaf binders and devices.....1954...	78,670	57,923	19,822	925	74	70,456	57,923	12,533	82
	1947...	58,001	43,060	14,367	574	75	52,041	43,060	8,981	83
2789	Miscellaneous bookbinding work.....1954...	22,370	18,654	3,676	40	84	22,384	18,654	3,730	83
	1947...	17,185	14,812	2,207	166	87	18,692	14,812	3,880	79

<sup>1</sup>The specialization ratio compares the given industry's shipments of its primary products to its total shipments of all products. (The primary products are listed in Tables 5B and 6A; the first 4-digits of the product code represent the industry code to which the product is primary.)

<sup>2</sup>The coverage ratio measures the extent to which the total shipments of products primary to the given industry are shipped by establishments classified in that industry.



## MANUFACTURES--INDUSTRY STATISTICS

Table 5B.--INDUSTRY-PRODUCT ANALYSIS--SHIPMENTS BY PRODUCT CLASS AND INDUSTRY, FOR THE UNITED STATES: 1954

(In thousands of dollars. Each column shows for the industry listed in the column heading, the value of shipments divided between printing and related products, other products, and miscellaneous receipts. Each figure represents the amount of the product class shown at the left shipped by the industry listed at the top of the column. The first four digits of the product class codes at the left represent the codes of the industries to which they are primary. All other product classes in a column represent products secondary to the specified industry)

Prod. class code	Class of products and miscellaneous receipts	Com- mercial printing (S.I.C. 2751)	Litho- graphing (S.I.C. 2761)	Greeting cards (S.I.C. 2771)	Book- binding (S.I.C. 2781)	Blank- books and paper ruling (S.I.C. 2782)	Loose- leaf binders and devices (S.I.C. 2783)	Miscel- laneous book- binding work (S.I.C. 2789)	Book printing (S.I.C. 2732)	Other indus- tries	All indus- tries
	Total shipments of the industry.....	2,202,074	962,552	208,905	111,970	79,185	78,670	22,370	xxx	xxx	xxx
275- 276- 277- 278-	Printing and related products.....	2,045,469	916,351	200,597	106,559	75,369	67,915	21,469	xxx	xxx	xxx
27510	Commercial printing, letterpress and gravure.....	1,863,374	108,761	2,177	642	7,827	687	312	22,833	150,665	2,157,278
27610	Lithographing.....	156,207	791,011	3,831	(D)	3,673	(D)	...	14,983	228,870	999,112
27711	Greeting cards, publishing.....	6,970	(D)	171,977	...	...	...	...	...	4,384	184,988
27712	Greeting cards printed for publishers.	2,241	6,381	21,249	(3)	...	...	...	454	696	31,022
27710	Greeting cards not specified by kind..	(3)	(3)	1,309	...	...	...	...	...	(1)	1,491
27810	Bookbinding.....	3,309	4,097	(3)	101,360	649	(D)	473	4,677	2,449	117,382
27820	Blankbooks (other than loose-leaf)....	9,051	3,450	(3)	1,673	60,171	8,447	750	146	6,834	91,524
27830	Loose-leaf binders, and forms and fillers.....	3,717	692	(3)	1,298	2,167	57,923	1,280	(D)	2,596	70,456
27890	Bindery services, except bookbinding..	515	(D)	(3)	1,348	882	206	18,654	(3)	378	22,384
	Other products.....	146,609	42,142	7,882	4,181	3,728	9,830	861	xxx	xxx	xxx
26712	Folding paperboard boxes and cartons..	4,080	(D)	...	...	...	...	...	xxx	xxx	xxx
26991	Stationery, tablets and related prod- ucts.....	141	(3)	...	(D)	(D)	3,183	(3)	xxx	xxx	xxx
26992	Wrapping products, except coated, oiled and waxed.....	(D)	(D)	4,228	...	...	...	...	xxx	xxx	xxx
26996	Other converted paper and paperboard products.....	4,551	(D)	...	...	(D)	...	(3)	xxx	xxx	xxx
27211	Periodicals: receipts from sub- scriptions and sales.....	4,438	1,064	(3)	(3)	...	(D)	...	xxx	xxx	xxx
27212	Periodicals: receipts from adver- tising.....	4,598	163	(3)	...	...	(D)	...	xxx	xxx	xxx
27310	Book and pamphlet publishing.....	2,636	1,993	(3)	(3)	(3)	(D)	(D)	xxx	xxx	xxx
27320	Book and pamphlet printing and book- binding.....	72,438	2,647	(D)	2,137	(3)	(3)	(3)	xxx	xxx	xxx
27410	Miscellaneous publishing.....	4,123	392	2,655	(D)	...	(D)	...	xxx	xxx	xxx
27910	Typesetting, machine and hand.....	4,378	578	xxx	1,354	...	(3)	...	xxx	xxx	xxx
27920	Engraving and plate printing.....	5,601	1,809	(D)	(3)	(3)	...	...	xxx	xxx	xxx
27930	Photoengraving.....	2,007	1,644	(3)	...	...	...	...	xxx	xxx	xxx
	Other secondary products.....	436,727	4,179	(3)	(D)	2,295	5,199	(D)	xxx	xxx	xxx
	Miscellaneous receipts.....	9,996	4,059	426	1,230	88	925	40	xxx	xxx	xxx
	Contract and commission work.....	5,272	2,998	310	906	(3)	789	(3)	xxx	xxx	xxx
	Scrap and salable refuse.....	4,400	801	116	309	(3)	(3)	(3)	xxx	xxx	xxx
	Other.....	324	260	...	(3)	(3)	(3)	(3)	xxx	xxx	xxx

xxx Not applicable.

D Withheld to avoid disclosing figures of individual companies.

<sup>1</sup>Establishments classified in Industry 2711, Newspaper accounted for \$89,685 thousand of this amount; other industries reporting a substantial dollar volume of such receipts include Industry 2721, Periodicals, \$8,652 thousand, Industry 2741, Miscellaneous Publishing, \$12,797 thousand, Industry 2641, Paper Coating and Glazing, \$5,199 thousand, and Industry 2671, Paperboard Boxes, \$5,028 thousand.

<sup>2</sup>Of this amount, Industry 2711, Newspapers accounted for \$6,834 thousand, and Industry 2741, Miscellaneous Publishing for \$4,178 thousand.

<sup>3</sup>Less than \$100 thousand.

<sup>4</sup>Of this figure, 72 percent consists of the following product classes: 26612, Specialty bags and liners; 31720, Leather billfolds, wallets, and keycases; 34970, Metal foil and leaf; 39711, Molded plastic products; 39993, Other miscellaneous fabricated products.

## COMMERCIAL PRINTING; LITHOGRAPHING; GREETING CARDS; BOOKBINDING AND RELATED INDUSTRIES

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Table 6A--VALUE OF RECEIPTS REPORTED BY ALL MANUFACTURING ESTABLISHMENTS, FOR THE UNITED STATES: 1954 AND 1947

Product code	Product	Value of receipts (\$1,000)	
		1954	1947
2751---	Commercial printing, total.....	2,157,278	1,503,729
	Letterpress process: <sup>1</sup>		
2751011	Newspapers, ready prints and shopping news.....	48,924	76,948
2751013	Magazines and periodicals.....	361,970	181,518
2751015	Maps, atlases, and globe covers.....	<sup>1</sup> 3,653	1,248
2751017	Cards, other than greeting cards.....	8,061	<sup>1</sup> 1,329
2751022	Labels and wrappers.....	124,793	109,137
	Business forms:		
2751023	Continuous forms.....	<sup>1</sup> 149,622	66,790
2751025	Unit-set forms.....	<sup>1</sup> 63,962	
2751027	Other except blank book and loose leaf.....	<sup>1</sup> 51,258	
2751031	Tickets and coupons.....	<sup>1</sup> 24,154	<sup>1</sup> 17,702
2751033	Calendars and calendar pads.....	<sup>2</sup> 34,444	22,542
2751035	Catalogs and directories.....	106,003	65,929
2751039	Other general commercial letterpress printing, including advertising circulars and pamphlets.....	557,450	<sup>3</sup> 892,620
2751010	Letterpress process, not reported by product <sup>4</sup> .....	284,526	( <sup>3</sup> )
	Gravure process: <sup>1</sup>		
2751041	Newspapers, ready prints and shopping news.....	39,495	16,347
2751043	Magazines and periodicals.....	45,503	14,674
2751051	Labels and wrappers.....	45,921	8,583
2751073	Calendars and calendar pads.....	( <sup>2</sup> )	4,361
2751075	Catalogs and directories.....	19,261	10,512
2751079	Other general commercial gravure printing.....	27,700	( <sup>3</sup> )
2751040	Gravure process, not reported by product <sup>4</sup> .....	2,299	( <sup>3</sup> )
2751085	Screen process, except on textiles.....	16,021	9,434
2751098	Other printing processes, except lithography and engraving.....	17,798	( <sup>3</sup> )
2751081	Gravure plates made for others.....	13,867	4,055
2751000	Commercial printing, not specified by process or kind of product <sup>4</sup> .....	110,593	( <sup>3</sup> )
2761---	Lithography, total.....	999,112	485,081
	Lithographic process:		
2761011	Newspaper, ready prints and shopping newspaper.....	2,481	615
2761013	Magazines and periodicals.....	34,195	8,769
2761015	Maps, atlases and globe covers.....	4,082	3,869
2761017	Cards, other than greeting cards.....	4,507	1,642
2761021	Labels and wrappers.....	93,637	72,860
	Business forms:		
2761023	Continuous forms.....	67,319	22,791
2761025	Unit-set forms.....	33,235	
2761027	Other, except blank book and loose-leaf.....	31,666	
2761031	Tickets and coupons.....	1,702	1,544
2761033	Calendars and calendar pads.....	32,222	24,500
2761035	Catalogs and directories.....	50,452	12,786
2761039	All other general commercial lithography, including advertising circulars and pamphlets.....	469,484	<sup>5</sup> 298,899
	Decalcomanias:		
2761051	Letterpress process.....	<sup>6</sup> 2,120	<sup>6</sup> 1,419
2761053	Lithographic process.....	11,339	17,199
2761055	Silk screen process.....	11,201	1,495
2761057	Gravure process.....	( <sup>6</sup> )	( <sup>6</sup> )
2761050	Not reported by process <sup>4</sup> .....	4,382	( <sup>5</sup> )
2761081	Lithograph plates made for others <sup>4</sup> .....	40,952	16,691
2761000	Lithography, not specified by kind <sup>4</sup> .....	34,506	( <sup>5</sup> )
2761010	Lithography, not reported by product <sup>4</sup> .....	69,630	( <sup>5</sup> )
2771---	Greeting cards, total.....	217,501	129,267
27711	Publishers' sales.....	184,988	107,716
2771111	Christmas cards <sup>7</sup> .....	86,024	107,716
2771151	Other greeting cards <sup>7</sup> .....	98,964	
27712	Printed for publication by others.....	31,022	21,551
2771211	Letterpress process.....	12,848	5,421
2771251	Lithographic process.....	17,751	14,557
2771271	Engraving process.....	<sup>8</sup> 423	1,081
2771281	Gravure process.....	( <sup>8</sup> )	492
2771000	Greeting cards, not specified by kind.....	1,491	...

See footnotes at end of table.

## MANUFACTURES--INDUSTRY STATISTICS

Table 6A--VALUE OF RECEIPTS REPORTED BY ALL MANUFACTURING ESTABLISHMENTS, FOR THE UNITED STATES: 1954 AND 1947--Continued

Product code	Product	Value of receipts (\$1,000)	
		1954	1947
2781---	Bookbinding, total.....	117,382	109,904
2781011	Edition binding (hard bound).....	46,666	65,528
2781031	Pamphlet binding.....	32,011	21,806
2781051	Library binding (including "job" and rebinding).....	16,160	13,647
2781071	Mechanical binding (wire, plastic, etc.).....	7,776	8,923
2781000	Bookbinding, not reported by kind.....	14,769	...
2782---	Blankbooks and paper ruling, total.....	91,524	75,800
	Blankbooks:		
2782011	Ledgers and account books.....	6,848	11,144
2782021	Sales books.....	26,865	22,743
2782031	Albums and scrapbooks.....	16,800	12,531
2782051	Miscellaneous blankbooks, including diaries, memo books, check books, appointment books, etc.....	30,767	21,810
2782061	Paper ruling.....	4,679	5,544
2782000	Blankbooks (not reported by kind) and paper ruling, not reported separately.....	5,565	2,028
2783---	Loose-leaf binders and devices, total.....	70,456	52,041
2783011	Loose-leaf forms and fillers (printed only).....	17,804	18,853
2783051	Loose-leaf binders, including library.....	45,813	31,779
2783000	Loose-leaf devices, binders, forms, and fillers, not reported separately.....	6,839	1,409
2783099			
2789---	Miscellaneous bookbinding work, total.....	22,384	18,692
2789011	Bindery services, including embossing, indexing, edging, bronzing, gilding; maps and sample mounting; sample and color cards, etc.....	22,384	18,692

<sup>1</sup>For 1954, small values by the gravure process were reported but were combined with the letterpress process to avoid disclosure. The following products are affected: code numbers 2751015, 2751023, 2751025, 2751027, and 2751031. For 1947, codes 2751017 and 2761051 included a small amount of gravure process and code 2751031 included a small amount of engraving.

<sup>2</sup>Codes 2751033 and 2751073 have been combined to avoid disclosure.

<sup>3</sup>Not available separately. Receipts for printing for Federal, State, county, municipal, etc. governmental units and for codes 2751010, 2751040, 2751079, 2751098 and 2751000 have been combined and shown in code 2751039.

<sup>4</sup>Largely accounted for by small establishments which were not asked to report a breakdown of these printing receipts by kind of product; in the case of decalcominas, these establishments were not asked to specify the type of process employed (product code 2761050).

<sup>5</sup>Not available separately. Combined with code 2761039 which in 1947 also included printing for Federal, state, county, municipal, etc. governmental units.

<sup>6</sup>Codes 2761051 and 2761057 have been combined to avoid disclosure.

<sup>7</sup>Number of greeting cards sold in 1954: Christmas cards, 2,054 million; other greeting cards, 1,911 million. In 1947, a total of 2,990 million greeting card was sold.

<sup>8</sup>Codes 2771271 and 2771281 combined to avoid disclosure.

## COMMERCIAL PRINTING; LITHOGRAPHING; GREETING CARDS; BOOKBINDING AND RELATED INDUSTRIES

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Table 6B.—VALUE OF PRODUCT CLASSES SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, BY DIVISIONS AND STATES FOR 1954,  
AND UNITED STATES TOTALS FOR EARLIER YEARS

(In thousands of dollars. Statistics are shown for selected product classes which are economically significant and production of which is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (Table 2) and they are not miscellaneous or "not specified by type" classes. For each product class, States are listed only if the value of shipments is more than \$1 million and the figure does not disclose individual company information. Additional States which had shipments of more than \$1 million of the individual product classes are listed in footnote 1.)

Product class, region, and State <sup>1</sup>	Value of shipments	Product class, region, and State <sup>1</sup>	Value of shipments	Product class, region, and State <sup>1</sup>	Value of shipments
Commercial printing, letterpress and gravure (27510)		Commercial printing, letterpress and gravure (27510)—Continued		Lithographing (27610)—Continued	
1954 United States, total.....	2,157,278	Mountain.....	29,737	West South Central.....	28,244
1953 United States, total.....	2,162,968	Montana.....	2,964	Arkansas.....	1,500
1952 United States, total.....	2,025,251	Idaho.....	1,599	Louisiana.....	1,972
1951 United States, total.....	1,918,979	Wyoming.....	1,016	Oklahoma.....	4,033
1950 United States, total.....	1,750,593	Colorado.....	12,715	Texas.....	20,739
1947 United States, total.....	1,503,729	New Mexico.....	1,974	Mountain.....	9,769
1954		Arizona.....	3,902	Colorado.....	6,208
New England.....	137,831	Utah.....	4,556	Arizona.....	1,013
Maine.....	3,261	Nevada.....	1,008	Utah.....	1,213
New Hampshire.....	12,530	Pacific.....	164,688	Pacific.....	110,667
Vermont.....	2,103	Washington.....	11,864	Washington.....	7,503
Massachusetts.....	62,741	Oregon.....	9,430	Oregon.....	5,922
Rhode Island.....	6,573	California.....	143,394	California.....	97,241
Connecticut.....	50,623	Lithographing (27610)		Greeting cards, publishing (27711)	
Middle Atlantic.....	665,660	1954 United States, total.....	999,112	1954 United States, total.....	184,988
New York.....	369,650	1953 United States, total.....	756,870	1947 United States, total.....	107,716
New Jersey.....	107,028	1952 United States, total.....	681,865	1954	
Pennsylvania.....	188,982	1951 United States, total.....	643,151	New England.....	31,865
East North Central.....	722,346	1950 United States, total.....	548,642	Massachusetts.....	18,323
Ohio.....	196,778	1947 United States, total.....	485,081	Middle Atlantic.....	53,590
Indiana.....	35,210	1954		New York.....	47,347
Illinois.....	360,650	New England.....	52,035	New Jersey.....	1,626
Michigan.....	76,999	Massachusetts.....	35,889	Pennsylvania.....	4,616
Wisconsin.....	52,709	Rhode Island.....	4,351	North Central.....	91,351
West North Central.....	153,777	Connecticut.....	10,346	Ohio.....	30,868
Minnesota.....	48,623	Middle Atlantic.....	305,542	Illinois.....	17,991
Iowa.....	17,531	New York.....	215,904	South Atlantic.....	274
Missouri.....	58,528	New Jersey.....	29,452	East South Central.....	276
North Dakota.....	2,110	Pennsylvania.....	60,185	West South Central.....	82
South Dakota.....	1,680	East North Central.....	331,098	Mountain.....	425
Nebraska.....	12,858	Ohio.....	84,049	Pacific.....	7,093
Kansas.....	12,447	Indiana.....	23,499	California.....	7,064
South Atlantic.....	144,939	Illinois.....	155,774	Bookbinding (27810)	
Delaware.....	3,830	Michigan.....	37,292	1954 United States, total.....	117,382
Maryland.....	32,965	Wisconsin.....	30,484	1953 United States, total.....	80,325
District of Columbia.....	18,920	West North Central.....	83,180	1952 United States, total.....	73,424
Virginia.....	20,488	Minnesota.....	26,008	1951 United States, total.....	68,812
West Virginia.....	4,115	Iowa.....	6,526	1947 United States, total.....	109,904
North Carolina.....	18,421	Missouri.....	40,053	1954	
South Carolina.....	4,412	Nebraska.....	5,045	New England.....	7,038
Georgia.....	25,894	Kansas.....	5,154	Massachusetts.....	5,859
Florida.....	15,892	South Atlantic.....	61,011	Connecticut.....	956
East South Central.....	65,908	Delaware.....	2,200	Middle Atlantic.....	57,400
Kentucky.....	30,782	Maryland.....	20,859	New York.....	46,323
Tennessee.....	22,626	District of Columbia.....	14,756	New Jersey.....	3,475
Alabama.....	9,039	Virginia.....	4,433	Pennsylvania.....	7,601
Mississippi.....	3,459	West Virginia.....	1,691		
West South Central.....	72,392	North Carolina.....	4,381		
Arkansas.....	6,512	Georgia.....	8,114		
Louisiana.....	9,995	Florida.....	4,092		
Oklahoma.....	9,702	East South Central.....	17,566		
Texas.....	46,183	Kentucky.....	5,506		
		Tennessee.....	8,058		
		Alabama.....	3,446		

See footnotes at end of table.



## MANUFACTURES--INDUSTRY STATISTICS

Table 6B.—VALUE OF PRODUCT CLASSES SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, BY DIVISIONS AND STATES FOR 1954, AND UNITED STATES TOTALS FOR EARLIER YEARS—Continued

Product class, region, and State <sup>1</sup>	Value of shipments	Product class, region, and State <sup>1</sup>	Value of shipments	Product class, region, and State <sup>1</sup>	Value of shipments
Bookbinding (27810)—Continued		Blankbooks (other than loose-leaf) (27820)		Blankbooks (other than loose-leaf) (27820)—Continued	
East North Central.....	36,227	1954 United States, total.....	91,524	Mountain.....	618
		1947 United States, total.....	75,800	Pacific.....	7,865
Ohio.....	3,050	1954		Washington.....	270
Indiana.....	4,419			Oregon.....	466
Illinois.....	19,391	New England.....	13,617	California.....	7,128
Michigan.....	5,193	Massachusetts.....	10,304	Loose-leaf binders, and forms and fillers (27830)	
Wisconsin.....	4,172			1954 United States, total.....	70,456
West North Central.....	4,389	Middle Atlantic.....	26,633	1953 United States, total.....	71,775
		New York.....	18,764	1952 United States, total.....	73,166
Minnesota.....	1,087	New Jersey.....	3,803	1951 United States, total.....	76,180
Missouri.....	2,617	Pennsylvania.....	4,066	1947 United States, total.....	52,041
				1954	
South Atlantic.....	4,579	East North Central.....	24,353	Northeast.....	32,977
		Ohio.....	7,766	New York.....	19,296
Maryland.....	2,510	Illinois.....	7,830	East North Central.....	22,245
		Wisconsin.....	3,472	Illinois.....	8,920
East South Central.....	453	West North Central.....	7,095	Michigan.....	3,819
		Missouri.....	3,203	Wisconsin.....	4,806
West South Central.....	1,996	South Atlantic.....	7,104	West North Central.....	3,823
Texas.....	1,455	East South Central.....	1,746	Missouri.....	2,720
Mountain.....	693	Kentucky.....	1,055	South.....	2,638
		West South Central.....	2,532	West South Central.....	875
Pacific.....	4,111			West.....	8,744
		Texas.....	2,308	California.....	8,606
California.....	3,499				

Note: The figures shown for 1950 to 1953 are sample estimates obtained from the Annual Survey of Manufactures for those years. Since the estimates are based on a sample they are subject to sampling variability, that is, they are not the same as figures which would have been obtained if complete censuses had been taken for those years. Measures of the sampling variability (standard errors) of the estimated total value of shipments of each product class are shown in the Annual Survey of Manufactures publications. Also shown are the standard errors of the relative change in shipments between some consecutive Annual Survey years which are the more significant measures when the series is studied for trend.

<sup>1</sup>For the specified product classes, shipments of over \$1 million were reported for the States listed but the exact figures are withheld to avoid disclosure of individual company figures: 27711, New Hampshire, Vermont, Rhode Island, Connecticut, Indiana, Wisconsin, Minnesota, Missouri, and Kansas; 27820, Connecticut, Indiana, Michigan, Nebraska, Kansas, and Maryland; 27830, Massachusetts, New Jersey, Pennsylvania, Ohio, and Indiana.

Table 6C.--RECEIPTS FROM COMMERCIAL PRINTING (LETTERPRESS AND GRAVURE) BY SELECTED PRODUCTS, BY DIVISIONS AND STATES: 1954 AND 1947

(In thousands of dollars)

Division and State	Newspapers, ready prints, and shopping news (Product codes 2751011 and 2751041)		Magazines and Periodicals (Product codes 2751013 and 2751043)		Labels and wrappers (Product codes 2751022 and 2751051)		Business forms (Product codes 2751023, -025, -027)		Catalogs and directories (Product codes 2751035 and 2751075)	
	1954	1947	1954	1947	1954	1947	1954	1947	1954	1947
United States, total...	88,419	93,295	407,473	196,192	170,714	117,720	264,842	66,790	125,264	76,441
New England.....	2,423	2,398	29,704	12,454	12,857	4,943	13,689	2,373	7,553	3,715
New Hampshire.....	(1)	(D)	(2)	(1)	(2)	(1)	(1)	(D)	(2)	(1)
Massachusetts.....	1,528	1,070	3,121	3,880	7,886	3,121	5,636	1,937	4,805	2,566
Rhode Island.....	(1)	...	(1)	(D)	1,586	1,162	(1)	(D)	(1)	(D)
Connecticut.....	(1)	1,173	21,197	7,703	(1)	(1)	7,242	(D)	1,085	(1)
Middle Atlantic.....	44,361	26,129	131,046	61,081	49,479	35,272	65,216	22,227	34,291	14,769
New York.....	26,702	16,510	42,707	34,364	23,480	16,298	44,019	17,933	11,903	4,502
New Jersey.....	13,130	4,354	21,060	7,073	14,905	7,346	4,567	1,023	16,054	6,834
Pennsylvania.....	4,528	5,265	67,279	19,644	11,093	11,628	16,629	3,271	6,333	3,433
East North Central.....	22,895	44,116	169,597	79,661	61,520	48,824	108,596	29,450	61,892	45,809
Ohio.....	5,264	4,044	43,688	10,537	15,693	16,989	58,286	20,971	3,690	2,399
Indiana.....	(1)	(1)	3,862	2,224	1,304	(1)	2,228	(1)	1,987	2,146
Illinois.....	11,283	35,534	109,122	62,576	24,153	16,625	34,998	6,532	49,727	35,954
Michigan.....	5,134	2,922	6,598	1,676	4,220	3,019	10,627	1,579	4,702	4,072
Wisconsin.....	(1)	(1)	6,324	2,648	16,150	11,682	2,454	(1)	1,784	1,238
West North Central.....	3,673	2,907	14,146	7,104	12,010	8,789	15,087	2,583	6,851	3,382
Minnesota.....	(1)	(1)	4,510	1,812	(1)	(1)	3,392	1,454	2,833	1,449
Missouri.....	2,441	1,142	7,474	4,078	9,566	7,115	7,380	1,118	2,180	(1)
Nebraska.....	(1)	(1)	(1)	(1)	(2)	(1)	1,657	...	(1)	(1)
Kansas.....	(1)	(1)	1,368	(1)	(1)	(D)	1,645	(D)	(1)	(1)
South Atlantic.....	2,870	2,954	20,338	15,041	14,197	8,771	19,570	353	3,347	2,084
Maryland.....	(1)	(1)	4,277	5,654	3,927	5,338	6,542	(D)	(1)	(1)
District of Columbia.....	(1)	1,368	10,367	6,787	...	(D)	(1)	(D)	(D)	(D)
Virginia.....	(1)	(1)	1,848	(1)	(1)	1,340	2,905	(D)	(1)	(1)
North Carolina.....	(1)	(1)	(1)	(1)	4,534	1,027	3,425	...	(1)	(D)
Georgia.....	(1)	(1)	(1)	(1)	4,607	(1)	2,421	(1)	(2)	1,238
Florida.....	(1)	(1)	(1)	(1)	(1)	(1)	2,314	(D)	(1)	(1)
East South Central.....	816	1,825	(2)	8,574	(2)	3,903	3,218	60	3,625	1,109
Kentucky.....	(1)	1,326	(2)	6,206	(2)	(1)	(1)	...	1,543	(1)
Tennessee.....	(1)	(1)	3,032	2,068	4,542	3,028	1,222	(D)	1,935	(1)
West South Central.....	1,624	1,296	(2)	2,051	(2)	654	12,573	645	2,635	1,850
Arkansas.....	(1)	(1)	(1)	(1)	(1)	(D)	1,326	(D)	(1)	(1)
Louisiana.....	(1)	(1)	(1)	(1)	(1)	(D)	1,502	...	(1)	(1)
Oklahoma.....	(1)	(1)	(1)	(1)	(1)	(D)	1,594	(D)	(1)	(1)
Texas.....	1,385	(1)	3,935	1,257	(1)	(1)	8,149	(1)	1,887	1,478
Mountain.....	970	1,078	2,845	850	483	119	3,740	35	558	536
Colorado.....	(1)	(1)	(1)	(1)	(1)	(1)	1,601	(1)	(1)	(1)
Pacific.....	8,787	10,592	14,596	9,376	10,634	6,445	23,153	9,064	4,512	3,187
Washington.....	(1)	1,726	(1)	(1)	(1)	(1)	1,313	(1)	(1)	(1)
Oregon.....	(1)	(1)	(1)	(1)	(1)	(1)	1,314	(1)	(1)	(1)
California.....	8,257	8,460	13,653	8,480	10,119	5,989	20,524	8,847	3,890	2,301

Note: The sum of the detail by States adds to the total shown for geographic divisions only in those instances where figures appear for all States located in the division. States not shown did not report as much as one million dollar receipts in 1954 for any of these selected products.

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>Less than one million dollar receipts reported.

<sup>2</sup>More than one million dollar receipts were reported but actual figures withheld to avoid disclosing data for individual companies.

## MANUFACTURES--INDUSTRY STATISTICS

Table 6D.--RECEIPTS FROM LITHOGRAPHIC PRINTING OF LABELS AND WRAPPERS AND BUSINESS FORMS, BY DIVISIONS AND STATES: 1954 AND 1947  
(In thousands of dollars)

Division and State	Labels and wrappers (Product Code 2761021)		Business forms (Product Codes 2761023, -025, and -027)	
	1954	1947	1954	1947
United States, total.....	93,637	72,860	132,220	22,791
New England.....	3,237	2,067	9,120	1,463
Massachusetts.....	1,608	2,006	7,986	1,407
Connecticut.....	1,571	( <sup>1</sup> )	( <sup>1</sup> )	...
Middle Atlantic.....	31,652	24,124	37,476	5,589
New York.....	25,199	19,633	26,896	4,041
New Jersey.....	3,057	3,159	4,209	1,938
Pennsylvania.....	3,396	1,332	6,371	( <sup>1</sup> )
East North Central.....	23,659	18,507	35,843	9,127
Ohio.....	6,590	1,515	18,707	5,700
Indiana.....	( <sup>1</sup> )	( <sup>1</sup> )	1,839	(D)
Illinois.....	11,944	8,366	9,845	3,351
Michigan.....	2,545	2,680	4,737	(D)
Wisconsin.....	2,383	5,885		( <sup>1</sup> )
West North Central.....	5,922	2,690	8,434	1,955
Minnesota.....	1,319	1,024	( <sup>1</sup> )	( <sup>1</sup> )
Iowa.....	( <sup>1</sup> )	( <sup>1</sup> )	1,856	...
Missouri.....	3,357	( <sup>1</sup> )	3,670	1,490
Kansas.....	( <sup>1</sup> )	( <sup>1</sup> )	1,571	...
South Atlantic.....	7,845	6,001	7,105	50
Maryland.....	3,275	2,642	4,116	...
Virginia.....	1,388	1,251	( <sup>1</sup> )	...
North Carolina.....	1,845	( <sup>1</sup> )	( <sup>1</sup> )	...
East South Central.....	1,199	701	3,887	...
Kentucky.....	( <sup>1</sup> )	( <sup>1</sup> )	1,029	...
Tennessee.....	( <sup>1</sup> )	( <sup>1</sup> )	2,689	...
West South Central.....	584	569	8,347	630
Oklahoma.....	( <sup>1</sup> )	(D)	1,440	...
Texas.....	( <sup>1</sup> )	( <sup>1</sup> )	6,341	( <sup>1</sup> )
Mountain.....	116	215	1,760	...
Colorado.....	( <sup>1</sup> )	(D)	1,285	...
Pacific.....	19,423	17,986	20,248	3,977
Washington.....	( <sup>1</sup> )	( <sup>1</sup> )	1,054	...
Oregon.....	( <sup>1</sup> )	( <sup>1</sup> )	2,284	...
California.....	18,922	17,373	16,910	3,977

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>Less than one million dollar receipts reported.

Table 7.—MATERIALS CONSUMED, BY KIND: 1954

Code	Description of materials	Purchased and consumed by printers, 1954			
		Cost (\$1,000)	Quantity of paper and board (tons of 2,000 lbs.)		
			Total	For publications	For other products
	INDUSTRY 2751—COMMERCIAL PRINTING				
	Materials and supplies, total.....	715,571	xxx	xxx	xxx
261211	Newsprint.....	44,231	336,956	234,432	102,524
261213	Groundwood paper, uncoated.....	39,447	205,216	62,736	142,480
261215	Book paper, uncoated.....	1310,436	1,181,988	1442,540	1739,448
261217	Fine paper, uncoated.....				
264151	Coated paper, all types.....				
261251	All other paper and board.....	163,830	(NA)	(NA)	(NA)
970000	All other materials, containers, and supplies consumed, including ink, metal, type, wrapping paper, etc., including paper not specified by kind.....	157,627	xxx	xxx	xxx
	INDUSTRY 2761—LITHOGRAPHING				
	Materials and supplies, total.....	313,344	xxx	xxx	xxx
261211	Newsprint.....	2,441	16,756	7,455	9,301
261213	Groundwood paper, uncoated.....	8,056	49,904	7,985	41,919
261215	Book paper, uncoated.....	1154,872	1494,969	140,504	1454,465
261217	Fine paper, uncoated.....				
264151	Coated paper, all types.....				
261251	All other paper and board.....	31,421	148,780	5,885	142,895
970000	All other materials, containers, and supplies consumed, including ink, metal, type, wrapping paper, etc., including paper not specified by kind.....	116,554	xxx	xxx	xxx
	INDUSTRY 2771—GREETING CARDS				
	Materials and supplies, total.....	53,408	xxx	xxx	xxx
261211	Newsprint <sup>2</sup> .....	262	1,780	1,780	xxx
261213	Groundwood paper, uncoated <sup>2</sup> .....	352	1,482	1,482	
261215	Book paper, uncoated <sup>2</sup> .....	4,295	13,778	13,778	
261217	Fine paper, uncoated <sup>2</sup> .....	14,637	43,735	43,735	
264151	Coated paper, all types <sup>2</sup> .....	3,784	10,443	10,443	
261251	All other paper and board <sup>2</sup> .....	3,643	11,490	11,490	
970000	All other materials, containers, and supplies consumed, including ink, metal, type, wrapping paper, etc.....	26,435	xxx	xxx	
	INDUSTRY 2781—BOOKBINDING				
	Materials and supplies, total.....	21,678	xxx	xxx	xxx
261213	Groundwood paper, uncoated.....	1551	12,022	1474	1,548
261215	Book paper, uncoated.....				
261217	Fine paper, uncoated.....				
264151	Coated paper, all types.....	5,076	19,426	4,736	14,690
261251	All other paper and board.....				
970000	All other materials, containers, and supplies consumed, including ink, metals, type, paper used for wrapping printed products, etc...				
	INDUSTRY 2782—BLANKBOOKS AND PAPER RULING				
	Materials and supplies, total.....	29,057	xxx	xxx	xxx
261211	Newsprint.....	1,359	8,961	3,760	5,201
261213	Groundwood paper, uncoated.....	2,832	13,740	86	13,654
261215	Book paper, uncoated.....	408	1,397	312	1,085
261217	Fine paper, uncoated.....	9,511	29,501	2,550	26,951
264151	Coated paper, all types.....	799	2,777	608	2,169
261251	All other paper and board.....	6,501	29,287	4,899	24,388
970000	All other materials, containers, and supplies consumed, including ink, metals, type, paper used for wrapping printed products, etc...	7,647	xxx	xxx	xxx
	INDUSTRY 2783—LIBRARY AND LOOSE-LEAF BINDERS AND DEVICES				
	Materials and supplies, total.....	27,948	xxx	xxx	xxx
261213	Groundwood paper, uncoated.....	1182	1903	1427	1476
261215	Book paper, uncoated.....				
261217	Fine paper, uncoated.....				
264151	Coated paper, all types.....	7,232	20,403	242	20,161
261251	All other paper and board.....	152	364	78	286
970000	All other materials, containers, and supplies consumed, including ink, metals, type, paper used for wrapping printed products, etc...	4,803	21,361	487	20,874
		15,579	xxx	xxx	xxx

See footnotes at end of table.



## MANUFACTURES—INDUSTRY STATISTICS

Table 7.—MATERIALS CONSUMED, BY KIND: 1954—Continued

Code	Description of materials	Purchased and consumed by printers, 1954			
		Cost (\$1,000)	Quantity of paper and board (tons of 2,000 lbs.)		
			Total	For publications	For other products
	INDUSTRY 2789—MISCELLANEOUS BOOKBINDING WORK				
	Materials and supplies, total.....	4,788	xxx	xxx	xxx
261211	Newsprint.....	} 343			
261213	Groundwood paper, uncoated.....		3206	...	3206
261215	Book paper, uncoated.....				
261217	Fine paper, uncoated.....		304	42	262
264151	Coated paper, all types.....		245	51	619
261251	All other paper and board.....	805	4,170	209	3,961
970000	All other materials, containers, and supplies consumed, including ink, metals, type, paper used for wrapping printed products, etc...	3,575	xxx	xxx	xxx

xxx Not applicable.

<sup>1</sup>An analysis of reports indicated that the distinction between these grades was not clearly drawn; hence tonnages and costs are shown for combinations of the specified grades.<sup>2</sup>The distinction was not clearly drawn in reporting consumption of paper by grades as between "for publications" and "for other products", hence all of the tonnages are shown under "for publications" since only a small amount would be consumed in the printing of other than greeting cards.<sup>3</sup>Combined to avoid disclosing figures for individual companies.

## Paper Definitions:

Newsprint includes standard and superstandard newsprint in rolls and sheets.Uncoated Groundwood Paper includes "A" and "B" printing, catalog, directory, rotogravure, and all other uncoated groundwood paper.Uncoated Book Paper includes machine finish, English finish, antique, bulking, eggshell, supercalendered, offset, label and wrapper paper, poster, and all other uncoated book paper.Uncoated Fine Paper includes bond, writing, ledger, manifold, bristol (except bogus), cover, text, and all other uncoated fine paper.Coated Paper includes all paper machine-coated and off-the-machine (conversion) coated printing paper.

Table 2.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY INDUSTRY SPECIALIZATION AND PRIMARY PRODUCT CLASS SPECIALIZATION, FOR THE UNITED STATES: 1954

(This table presents selected statistics for establishments classified according to their degree of specialization in products primary to the industry. The establishments are classified in two ways: (1) by industry specialization—the degree of specialization in all primary products of the industry; and (2) by product-class specialization—the degree of specialization in the largest product class of the establishment. The degree of "industry specialization" for an establishment represents the ratio of its primary product shipments to its total product shipments, primary and secondary. The degree of "product-class specialization" for an establishment represents the ratio of its largest product class shipments to its total product shipments, primary and secondary. Data are not shown for some industries, product classes, and specialization ranges for a variety of reasons, consequently, detailed figures frequently do not add to the totals. See Introduction for detailed explanation)

Ind. or product class No.	Industry or product class by percent of specialization	Estab- lish- ments, number	All employees		Production workers			Value added by manufacture	Cost of materials, etc.	Value of shipments
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
2751	COMMERCIAL PRINTING (entire industry).....	12,073	200,233	888,659	157,567	305,988	650,828	1,357,820	844,511	2,202,074
	Establishments with:									
	90% or more specialization.....	9,025	119,146	519,526	96,139	186,803	396,592	802,830	515,928	1,318,623
	75-89% specialization.....	1,177	23,745	104,825	19,140	36,375	78,992	152,977	92,669	245,525
	50-74% specialization.....	1,514	42,988	196,929	32,939	64,500	136,629	295,177	179,545	474,723
	All other <sup>1</sup> .....	357	14,352	67,378	9,347	18,309	38,613	106,834	56,367	163,203
2761	LITHOGRAPHY (entire industry).....	2,924	77,717	376,571	60,178	117,968	261,249	578,883	383,587	962,552
	Establishments with:									
	90% or more specialization.....	1,840	37,475	181,892	29,368	57,397	126,648	280,454	194,800	475,331
	75-89% specialization.....	281	11,623	58,801	8,757	17,421	39,435	92,747	55,317	148,069
	50-74% specialization.....	672	23,358	112,618	18,090	35,555	79,262	172,488	112,944	285,433
	All other <sup>1</sup> .....	131	5,259	23,259	3,962	7,594	15,903	33,193	20,525	53,718
2771	GREETING CARDS (entire industry).....	294	21,347	70,434	15,297	28,624	41,960	131,343	77,561	208,905
	Establishments with:									
	90% or more specialization.....	227	16,581	54,385	12,014	22,427	32,280	108,721	62,786	171,508
	75-89% specialization.....	16	2,154	7,863	1,535	3,058	4,478	11,741	8,302	20,043
	50-74% specialization.....	36	2,217	7,202	1,394	2,498	4,401	9,579	6,172	15,751
	All other <sup>1</sup> .....	15	394	984	353	639	800	1,301	300	1,602
27711	Greeting cards, publishing: All establishments specializing in product class.	170	18,681	60,500	13,171	24,796	34,655	115,872	67,228	183,100
	Establishments with:									
	90% or more specialization.....	142	15,118	48,592	10,880	20,311	28,082	99,109	55,129	154,238
	75-89% specialization.....	9	2,019	7,368	1,413	2,811	4,057	11,055	8,091	19,147
	50-74% specialization.....	14	1,488	4,388	840	1,602	2,414	5,369	3,753	9,123
	Less than 50% specialization.....	5	55	151	37	70	101	338	253	591
27712	Greeting cards, printed for publishers: All establishments specializing in product class.	91	2,199	8,759	1,706	3,066	6,350	13,922	9,933	23,856
	Establishments with:									
	90% or more specialization.....	56	1,311	5,391	1,011	1,908	3,919	8,915	7,001	15,917
	75-89% specialization.....	7	50	216	41	75	175	329	90	419
	50-74% specialization.....	23	831	3,141	649	1,074	2,245	4,641	2,807	7,449
	Less than 50% specialization.....	5	6	10	4	8	10	36	34	71
2782	BLANKBOOKS AND PAPER RULING (entire industry).....	334	8,624	29,831	6,952	13,425	20,760	47,910	31,275	79,180
	Establishments with:									
	90% or more specialization.....	232	3,619	11,615	3,046	5,860	8,211	19,389	13,214	32,604
	75-89% specialization.....	28	716	2,662	593	1,141	1,789	3,950	2,430	6,381
	50-74% specialization.....	59	2,826	10,605	2,039	3,776	6,640	16,751	9,598	26,350
	All other <sup>1</sup> .....	15	1,462	4,948	1,273	2,647	4,119	7,818	6,031	13,849
2783	LOOSE-LEAF BINDERS AND DEVICES (entire industry).....	154	8,199	30,948	6,329	12,659	20,788	49,651	29,018	78,670
	Establishments with:									
	90% or more specialization.....	113	4,064	15,014	3,063	6,146	9,528	23,123	12,599	35,723
	75-89% specialization.....	11	178	670	141	281	446	1,081	754	1,836
2789	MISCELLANEOUS BOOKBINDING WORK (entire industry).....	201	3,303	10,925	2,910	5,671	8,244	16,968	5,401	22,370
	Establishments with:									
	90% or more specialization.....	160	2,304	7,508	2,067	4,130	5,963	11,721	3,051	14,773
	75-89% specialization.....	9	197	644	172	279	433	1,007	263	1,271
	50-74% specialization.....	22	432	1,509	381	690	1,065	2,332	991	3,324
	All other <sup>1</sup> .....	10	368	1,264	289	570	783	1,906	1,095	3,001

<sup>1</sup>This class includes data for establishments with less than 50 percent specialization in the primary products of the industry and establishments engaged exclusively in contract work defined in the industry. Miscellaneous small statistical adjustments are also included.



## Service Industries for the Printing Trade

This report shows 1954 Census of Manufactures statistics for establishments classified in each of the following industries:

Code	Title
2791--	Typesetting
2792--	Engraving and Plate Printing
2793--	Photoengraving
2794--	Electrotyping and Stereotyping

Two types of reporting forms were used to canvass these industries. A special short form was used to collect a minimum of information from establishments employing fewer than six persons, while the basic long form was used to collect more detailed data from the larger establishments. Information reported on both of these forms has been combined in this report. Separate data for the larger establishments are shown in Table 3. Establishments in this group of industries perform services for the printing trades and do not generally engage in printing. On the other hand, many of these services, such as typesetting, photoengraving, electrotyping and stereotyping are also performed to an appreciable extent as an integral part of the operations of establishments primarily printing newspapers, periodicals, books and other materials. These establishments are classified in other industries and no separate measures of their captive operations have been collected. It should therefore be carefully noted that data for Industries 2791 to 2794 may account for only a portion of the aggregate of typesetting, photoengraving, and other services for the printing industries by manufacturing establishments.

### 2791--Typesetting

This industry comprises establishments primarily engaged in machine and hand typesetting for the trade, and in advertising typography. For a list of the primary activities of Industry 2791, refer to Table 6A, product codes 2791011 to 2791051.

Total receipts of Industry 2791 in 1954 amounted to \$121 million. This included receipts from primary activities (typesetting) valued at \$114 million, receipts from secondary activities valued at \$7 million, and a negligible amount of miscellaneous receipts.

Industry 2791 receipts from typesetting in 1954 represented 94 percent of its total receipts (primary and secondary). In 1947, this primary activity specialization ratio was also 94 percent. Secondary activities of Industry 2791 in 1954 consisted mainly of letterpress commercial printing, \$3 million, and electrotyping and stereotyping, \$1 million.

Industry 2791 receipts from typesetting in 1954 represented 87 percent of receipts from typesetting for the trade, valued at \$132 million, reported by all industries. This coverage ratio in 1947 was also 87 percent. Other industries reporting receipts from typesetting for the trade in 1954 consisted mainly of Industry 2732, Book Printing, \$4 million; Industry 2751, Commercial Printing, \$4 million; Industry 2794, Electrotyping and Stereotyping, \$4 million; and Industry 2711, Newspapers, \$2 million. These data do not cover captive typesetting operations of printing establishments classified in other industries.

### 2792--Engraving and Plate Printing

This industry comprises establishments primarily engaged in engraving and etching steel and copper plates; in using these plates to print stationery, visiting and other cards, invitations, announcements, security certificates, maps, etc.; and in making wood cuts for use in printing illustrations, posters, etc. Establishments primarily engaged in engraving on textile printing rollers and those engraving or etching on rubber printing plates are also classified in Industry 2792. Engraving for purposes other than printing is classified in Industry 3467, Engraving on Metal.

Total receipts of Industry 2792 in 1954 amounted to \$60 million. This included receipts from primary activities (engraving and plate printing) valued at \$55 million, receipts from secondary activities valued at \$4 million, and miscellaneous receipts valued at \$1 million.

Industry 2792 receipts from engraving and plate printing in 1954 represented 93 percent of its total receipts (primary and secondary). In 1947, this primary activity specialization ratio was 92 percent. Secondary activities of Industry 2792 in 1954 consisted mainly of commercial printing, \$2 million, and lithographing, \$1 million.

Industry 2792 receipts from engraving and plate printing in 1954 represented 79 percent of receipts from engraving and plate printing, valued at \$70 million, reported by all industries. This coverage ratio in 1947 was 80 percent. Other industries reporting receipts from engraving and plate printing in 1954 consisted mainly of Industry 2751, Commercial Printing, \$6 million; Industry 2761, Lithographing, \$2 million; and Industry 3911, Jewelry (Precious Metal), \$2 million.

### 2793--Photoengraving

This industry comprises establishments primarily engaged in preparing photoengraved plates (halftones and line-cuts). These establishments do not, as a rule, print from the plates which they make, but prepare them for use by others.

Total receipts of Industry 2793 in 1954 amounted to \$173 million. This included receipts from primary activities (photoengraving) valued at \$164 million, receipts from secondary activities valued at \$8 million, and miscellaneous receipts of \$1 million.

Industry 2793 receipts from photoengraving in 1954 represented 95 percent of its total receipts from primary and secondary activities. In 1947, this primary activity specialization ratio was 96 percent. Secondary activities of Industry 2793 in 1954 consisted mainly of electrotyping and stereotyping \$3 million, and lithographing \$2 million.

Industry 2793 receipts from photoengraving in 1954 represented 93 percent of the receipts from photoengraving for the trade, valued at \$176 million, reported by all industries. This coverage ratio in 1947 was 95 percent. Other industries reporting receipts from photoengraving for the trade in 1954 consisted mainly of Industry 2711, Newspapers, \$5 million, Industry 2794, Electrotyping and Stereotyping, \$2 million, and Industry 2751, Commercial Printing, \$2 million. These data do not cover captive photoengraving operations of printing establishments classified in other industries.

### 2794--Electrotyping and Stereotyping

This industry comprises establishments primarily engaged in preparing electrotypes and stereotype plates. These establishments do not, as a rule, print from the plates which they make, but prepare them for use by others. For a detailed list of primary activities of Industry 2794, refer to Table 6A, product codes 2794011 to 2794051.

Total receipts of Industry 2794 in 1954 amounted to \$86 million. This included receipts from primary activities (electrotyping and stereotyping) valued at \$75 million, receipts from secondary activities valued at \$10 million, and miscellaneous receipts of \$1 million.

Industry 2794 receipts from electrotyping and stereotyping in 1954 represented 89 percent of its total receipts from primary and secondary activities. In 1947, this primary activity specialization ratio was 92 percent. Secondary activities of Industry 2794



in 1954 consisted principally of typesetting, \$4 million, and photoengraving, \$2 million.

Industry 2794 receipts from electrotyping and stereotyping in 1954 represented 89 percent of electrotyping and stereotyping for the trade, valued at \$84 million, reported by all industries. This

coverage ratio in 1947 was 87 percent. Other industries reporting receipts from electrotyping and stereotyping in 1954 consisted principally of Industry 2793, Photoengraving, \$3 million; and Industry 2751, Commercial Printing, \$2 million. These data do not cover captive electrotyping and stereotyping operations of printing establishments classified in other industries.

The general statistics (employment, payrolls, value of shipments, cost of materials, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products, and, for that matter, their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (Tables 1-4) with product statistics (Table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in Table 5A which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry made as secondary products by establishments classified in other industries.

## SERVICE INDUSTRIES FOR THE PRINTING TRADE

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Table 1.—GENERAL STATISTICS FOR THE UNITED STATES: 1954 AND EARLIER YEARS  
(For explanation of column captions see Introduction)

Industry and census year	Establishments, number	All employees		Production workers		Value added by manufacture <sup>2</sup> (\$1,000)	Cost of materials, etc. <sup>3</sup> (\$1,000)	Value of shipments (receipts) (\$1,000)
		Number <sup>1</sup>	Payroll (\$1,000)	Number <sup>1</sup>	Wages (\$1,000)			
Typesetting (S.I.C. 2791):								
1954.....	1,081	14,550	74,558	11,744	57,492	106,909	14,481	121,390
1947.....	794	11,475	44,906	9,301	35,409	66,842	8,861	75,703
1939 <sup>4</sup> .....	641	8,100	14,995	6,244	10,425	22,044	3,052	25,096
1937.....	537	(NA)	(NA)	6,425	10,694	21,360	2,722	24,082
1935.....	544			5,232	8,650	17,363	2,363	19,726
1933.....	415			3,692	5,645	11,786	1,278	13,064
1931.....	473			4,917	10,092	18,507	2,090	20,597
1929.....	484			5,336	11,792	23,287	2,228	25,515
1927.....	407	5,013	11,190	4,206	8,923	17,126	1,975	19,101
1925.....	341	3,899	8,664	3,258	6,985	13,013	1,460	14,473
1923.....	324	3,574	7,377	2,986	6,019	11,183	1,430	12,613
1921.....	298	3,270	6,814	2,768	5,605	9,970	1,257	11,227
1919.....	309	3,248	4,879	2,738	3,943	7,873	981	8,854
1914.....	216	(NA)	(NA)	1,952	1,895	3,460	366	3,826
1909 <sup>5</sup> .....	158	(NA)	(NA)	1,415	1,255	2,492	229	2,721
Engraving and plate printing (S.I.C. 2792):								
1954.....	567	7,510	29,412	6,080	21,739	43,385	16,698	60,084
1947.....	416	7,688	20,998	6,463	16,959	33,094	12,217	45,311
1939.....	436	6,865	10,429	5,353	7,156	16,134	6,030	22,164
1937 <sup>6</sup> .....	418	(NA)	(NA)	7,226	9,312	19,487	7,138	26,625
1935.....	388	6,648	9,365	5,300	6,521	15,306	4,818	20,124
1933.....	343	5,993	6,804	5,033	5,265	12,586	3,637	16,223
1931.....	432	(NA)	(NA)	6,995	9,503	21,000	6,425	27,425
1929.....	483	12,351	20,823	10,272	14,813	35,954	11,947	47,901
1927.....	416	10,424	16,605	8,681	12,177	29,400	10,313	39,713
1925.....	390	8,936	14,001	7,376	10,402	24,956	7,675	32,631
1923.....	401	9,444	14,346	7,670	10,399	25,075	8,000	33,075
1921.....	391	8,725	13,021	7,287	9,831	21,659	7,748	29,407
1919.....	476	8,734	11,347	7,249	8,315	18,163	7,200	25,363
1914.....	471	8,526	6,824	7,161	4,837	10,495	4,011	14,506
1909.....	398	6,540	4,881	5,644	3,646	7,800	2,344	10,144
1904.....	329	4,341	3,069	3,918	2,473	4,977	1,614	6,591
1899.....	430	3,974	2,579	3,639	2,218	4,442	1,273	5,715
Photoengraving (S.I.C. 2793):								
1954.....	891	17,711	112,575	12,778	82,634	148,876	24,163	173,040
1953 <sup>7</sup> .....	(NA)	17,020	112,343	12,246	83,041	154,006	23,154	177,160
1952 <sup>7</sup> .....	(NA)	13,638	86,822	9,945	62,754	119,876	16,550	136,426
1951 <sup>7</sup> .....	(NA)	15,367	92,417	11,162	66,210	118,929	18,503	137,432
1947.....	770	16,711	80,003	12,234	57,962	116,131	17,409	133,540
1939.....	694	13,747	35,019	9,207	22,568	48,258	7,361	55,619
1937 <sup>8</sup> .....	620	(NA)	(NA)	9,707	23,606	50,095	7,196	57,291
Electrotyping and stereotyping (S.I.C. 2794):								
1954.....	233	8,005	48,391	5,917	34,220	69,594	16,299	85,894
1953 <sup>7</sup> .....	(NA)	7,663	46,556	5,925	34,210	67,729	18,034	85,763
1952 <sup>7</sup> .....	(NA)	7,286	44,254	5,444	29,467	53,906	11,378	65,284
1951 <sup>7</sup> .....	(NA)	7,298	41,102	5,300	26,774	52,407	11,966	64,373
1947.....	237	7,173	31,436	5,552	23,650	47,937	11,047	58,984
1939.....	234	6,333	14,445	4,412	8,920	22,141	6,904	29,045
1937.....	218	6,511	14,830	4,766	9,694	24,282	6,761	31,043
1935.....	206	5,956	13,959	4,417	8,444	23,036	3,831	26,867
1933.....	207	4,521	8,021	3,734	6,488	17,265	2,741	20,006
1931.....	223	(NA)	(NA)	4,857	10,917	20,821	3,761	24,582
1929.....	230	7,873	18,624	6,487	13,771	29,070	6,547	35,617
1927.....	197	5,642	13,703	4,502	10,273	20,872	4,677	25,549
1925.....	193	5,289	11,932	4,283	9,207	18,036	4,325	22,361
1923.....	179	5,102	10,899	4,096	8,334	16,584	4,012	20,596
1921.....	157	4,384	9,246	3,617	7,082	13,530	3,829	17,359
1919.....	171	4,538	7,032	3,664	5,003	11,608	4,311	15,919
1914.....	189	4,347	4,074	3,457	3,001	5,844	2,310	8,154
1909.....	174	3,528	3,113	2,850	2,312	4,603	1,781	6,384
1904.....	146	3,169	2,510	2,679	1,993	3,936	1,069	5,005
1899.....	140	2,738	1,771	2,408	1,459	2,972	800	3,772

NA Not available. <sup>1</sup>For the period 1949-1954, figures are based on employment for the payroll periods ended nearest the 15th of March, May, August and November. For 1947, they represent the average of 12 monthly figures. For earlier years, the production worker average was calculated as in 1947, but the figure for all employees represents the sum of the annual average number of production workers and the number of nonproduction workers reported for one payroll period (usually in October). <sup>2</sup>Value of products (receipts) less cost of materials, supplies, fuel, electric energy and contract work. See Introduction, "Value Added by Manufacture." <sup>3</sup>Cost of contract work is not included in the figures for "Typesetting" and "Engraving and plate printing" for 1899-1933 and for "Electrotyping and stereotyping" for 1927 and 1929. <sup>4</sup>Prior to 1939, "Typesetting" was part of the discontinued industry "Printing and publishing, book, music, and job." <sup>5</sup>No comparable figures are available prior to 1909. <sup>6</sup>The figures for 1937 and later years exclude data for establishments primarily engaged in engraving and plate printing of greeting cards and, therefore, are not entirely comparable with the figures for earlier years which include data for these establishments. Value added for 1937 on a basis comparable with earlier years was \$21.3 million. <sup>7</sup>The figures for 1951-1953 represent estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period. Estimates with a standard error in excess of 15 percent generally have been omitted from this table. <sup>8</sup>The figures for "Photengraving" prior to 1937 are not sufficiently comparable with those for later years to be shown in this table because they include data for establishments primarily engaged in gravure, rotogravure, and rotary photogravure work.

## MANUFACTURES—INDUSTRY STATISTICS

Table 2.—GENERAL STATISTICS BY REGIONS AND STATES: 1954 AND 1947  
(For explanation of column captions see Introduction)

Industry, region, and State <sup>1</sup>	1954											1947	
	Establishments, number		All employees		Production workers			Value added by manufacture	Cost of materials, etc.	Value of shipments (receipts)	Capital expenditures, new	All employees, number	Value added by manufacture
	Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)		(\$1,000)
Typsetting (S.I.C. 2791), total.....	1,081	188	14,550	74,558	11,744	23,082	57,492	106,909	14,481	121,390	4,267	11,475	66,842
New England.....	70	12	908	3,799	755	1,396	3,012	5,759	645	6,456	271	874	4,004
Massachusetts.....	38	6	488	2,148	406	721	1,647	3,009	372	3,381	77	678	2,989
Middle Atlantic.....	388	81	6,175	30,743	4,970	9,580	23,615	43,775	6,385	50,161	1,499	5,252	29,690
New York.....	285	65	4,730	24,294	3,806	7,412	18,690	34,507	4,885	39,392	1,059	3,807	22,550
New Jersey.....	39	3	230	981	187	349	808	1,444	207	1,651	165	114	611
Pennsylvania.....	64	13	1,214	5,467	976	1,818	4,116	7,823	1,293	9,117	274	1,331	6,529
East North Central.....	271	57	4,142	24,323	3,312	6,942	18,167	33,561	3,942	37,504	1,288	3,296	21,333
Ohio.....	67	14	897	4,893	689	1,397	3,503	7,010	1,243	8,254	219	651	3,703
Indiana.....	21	5	252	1,338	206	479	1,019	1,845	156	2,002	63	224	1,304
Illinois.....	125	25	1,964	11,989	1,606	3,169	9,122	15,923	1,810	17,734	635	1,424	9,710
Michigan.....	40	10	823	5,162	665	1,642	3,918	7,306	554	7,860	302	760	5,241
Wisconsin.....	18	3	205	940	143	253	604	1,474	178	1,653	68	237	1,375
West North Central.....	76	10	834	4,254	664	1,275	3,270	6,042	947	6,989	322	605	3,593
Minnesota.....	13	5	234	1,195	177	360	934	1,648	272	1,921	101	185	1,177
Missouri.....	45	5	504	2,632	409	779	2,011	3,692	585	4,278	190	337	1,978
South Atlantic.....	63	9	680	3,098	573	1,130	2,504	4,473	727	5,201	228	(D)	(D)
Maryland.....	16	4	217	1,027	180	384	802	1,483	223	1,707	38	172	888
District of Columbia.....	10	3	218	1,082	182	351	876	1,590	260	1,851	56	6	(D)
Georgia.....	9	2	100	499	88	171	419	628	81	710	(D)	79	(D)
East South Central.....	19	5	259	1,056	207	402	894	1,514	165	1,628	52	173	(D)
West South Central.....	48	3	501	2,194	419	770	1,823	3,426	408	3,835	156	263	(D)
Texas.....	30	3	403	1,847	340	638	1,550	2,833	272	3,106	124	217	1,286
Mountain.....	13	1	106	449	84	147	367	778	110	888	132	52	305
Pacific.....	133	10	940	4,640	758	1,436	3,836	7,577	1,148	8,726	314	627	3,954
California.....	113	9	830	4,067	667	1,262	3,389	6,700	999	7,700	283	545	3,467
Engraving and plate printing (S.I.C. 2792), total.....	567	69	7,510	29,412	6,080	11,963	21,739	43,385	16,698	60,084	1,702	7,688	33,094
New England.....	52	10	836	3,394	682	1,425	2,476	5,043	1,771	6,815	112	682	2,643
Massachusetts.....	22	2	280	1,082	204	389	717	1,562	495	2,057	20	(D)	(D)
Rhode Island.....	12	4	266	1,123	222	458	898	1,676	489	2,165	40	158	507
Connecticut.....	15	4	282	1,166	248	566	843	1,756	769	2,526	33	152	605
Middle Atlantic.....	205	24	3,397	13,939	2,784	5,264	11,094	19,880	8,039	27,920	647	4,421	19,697
New York.....	129	8	2,077	8,474	1,701	3,179	6,869	12,091	4,914	17,005	473	2,764	13,377
New Jersey.....	41	10	582	2,590	494	920	2,076	3,686	886	4,555	79	509	2,438
Pennsylvania.....	35	6	737	2,874	588	1,165	2,148	4,121	2,239	6,360	94	1,148	3,882
East North Central.....	123	13	1,279	5,122	1,020	1,936	3,482	7,868	2,848	10,717	421	1,078	4,735
Ohio.....	24	4	271	951	219	340	620	1,361	434	1,795	17	213	709
Indiana.....	11	1	128	320	109	213	268	534	224	759	27	121	560
Illinois.....	58	5	623	2,806	491	1,028	1,929	4,231	1,478	5,710	174	644	3,034
Michigan.....	16	3	181	808	145	247	515	1,300	455	1,756	195	37	(D)
West North Central.....	28	3	298	1,003	237	480	708	1,403	515	1,918	22	255	877
Missouri.....	14	3	225	737	184	363	530	991	332	1,324	12	189	519
South Atlantic.....	48	10	663	2,311	544	1,151	1,615	3,419	1,144	4,563	235	402	1,758
North Carolina.....	12	2	230	780	189	398	515	1,098	369	1,468	20	89	(D)
South Carolina.....	3	3	134	577	125	251	482	764	40	805	...	11	(D)
East South Central.....	20	3	315	898	269	557	664	1,237	806	2,044	(D)	317	1,178
Kentucky.....	11	2	156	529	124	253	341	693	321	1,015	14	176	694
Alabama.....	4	1	137	319	130	274	285	470	410	881	(D)	115	(D)
West South Central.....	32	2	262	902	207	475	585	1,441	540	1,982	(D)	194	793
Texas.....	21	1	172	566	141	275	366	905	374	1,279	(D)	169	(D)
Mountain.....	12	1	128	434	87	180	245	813	254	1,067	(D)	117	361
Colorado.....	5	1	104	337	69	146	194	617	201	819	(D)	(D)	(D)
Pacific.....	47	3	330	1,408	248	491	865	2,278	777	3,056	125	222	1,052
California.....	38	...	183	706	136	252	427	1,164	496	1,660	101	163	(D)

See footnotes at end of table.

## SERVICE INDUSTRIES FOR THE PRINTING TRADE

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Table 2.—GENERAL STATISTICS BY REGIONS AND STATES: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Industry, region, and State <sup>1</sup>	1954											1947	
	Establishments, number		All employees		Production workers			Value added by manufacture	Cost of materials, etc.	Value of shipments (receipts)	Capital expenditures, new	All employees, number	Value added by manufacture
	Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)		(\$1,000)
Photoengraving (S.I.C. 2793) total.....	891	267	17,711	112,575	12,778	25,575	82,634	148,876	24,163	173,040	3,986	16,711	116,131
New England.....	80	21	1,246	7,326	959	1,804	5,647	9,571	1,873	11,445	359	1,322	7,409
Massachusetts.....	34	11	555	3,064	402	745	2,283	3,628	918	4,547	173	666	3,653
Rhode Island.....	9	3	126	662	93	180	465	868	171	1,040	55	128	732
Connecticut.....	28	7	498	3,312	409	774	2,667	4,649	679	5,329	122	476	2,769
Middle Atlantic.....	229	99	6,727	46,103	4,777	9,285	34,292	58,872	8,802	67,674	1,296	6,650	46,822
New York.....	141	69	4,816	34,891	3,360	6,499	25,740	44,592	6,198	50,791	965	4,736	35,108
New Jersey.....	28	6	382	2,241	262	557	1,662	3,069	558	3,627	97	337	2,143
Pennsylvania.....	60	24	1,529	8,971	1,154	2,228	6,889	11,210	2,046	13,256	233	1,577	9,571
East North Central.....	227	91	5,646	37,012	4,122	8,818	26,623	47,574	6,627	54,202	1,280	4,828	34,842
Ohio.....	66	24	1,155	6,919	817	1,910	4,816	9,151	1,314	10,466	252	1,002	7,028
Indiana.....	19	7	393	2,342	283	497	1,661	2,923	451	3,375	42	377	2,380
Illinois.....	79	38	2,933	19,735	2,172	4,651	14,473	25,080	3,513	28,594	680	2,543	18,921
Michigan.....	41	16	833	5,924	613	1,268	4,137	7,753	909	8,663	201	606	4,440
Wisconsin.....	22	6	331	2,091	237	491	1,535	2,665	437	3,103	103	300	2,073
West North Central.....	68	10	832	4,549	572	1,083	3,069	6,219	1,052	7,272	273	919	5,669
Minnesota.....	13	3	179	1,125	127	243	752	1,533	276	1,809	7	329	2,094
Iowa.....	16	1	130	609	98	179	438	857	165	1,023	33	80	(D)
Missouri.....	24	6	410	2,253	267	504	1,464	3,026	450	3,476	206	419	2,569
South Atlantic.....	69	13	883	4,561	638	1,250	3,416	6,497	1,380	7,877	215	759	5,715
Maryland.....	13	4	165	890	117	223	662	1,228	257	1,485	32	142	1,366
District of Columbia.....	5	3	144	962	103	202	707	1,213	234	1,448	24	149	1,276
Virginia.....	11	2	129	621	95	214	465	937	205	1,143	29	111	714
North Carolina.....	8	1	117	533	95	190	444	803	225	1,028	32	91	(D)
Georgia.....	11	2	154	698	105	178	530	1,026	230	1,257	60	153	1,104
East South Central.....	23	4	289	1,326	214	436	1,004	2,210	535	2,746	154	206	1,490
Tennessee.....	9	2	159	793	125	259	608	1,236	287	1,524	100	104	875
West South Central.....	59	8	574	2,993	387	790	2,092	4,600	1,121	5,722	85	531	3,428
Texas.....	41	4	410	2,140	275	563	1,521	3,334	816	4,151	56	338	2,257
Mountain.....	31	1	213	1,100	151	290	775	1,756	500	2,256	57	159	1,001
Pacific.....	105	20	1,298	7,602	953	1,818	5,713	11,574	2,270	13,845	263	1,337	9,755
Washington.....	12	3	127	718	79	146	487	1,026	255	1,282	18	135	972
California.....	86	17	1,129	6,684	846	1,619	5,074	10,202	1,922	12,124	241	1,123	8,285
Electrotyping and Stereotyping (S.I.C. 2794) total.....	233	113	8,005	48,391	5,917	11,728	34,220	69,594	16,299	85,894	1,845	7,173	47,937
New England.....	17	9	559	3,219	440	838	2,423	4,518	990	5,509	217	468	2,845
Massachusetts.....	12	5	344	1,978	261	478	1,447	2,914	594	3,509	168	...	...
Middle Atlantic.....	72	40	3,153	19,402	2,135	4,333	12,454	27,065	6,541	33,606	545	2,443	17,704
New York.....	49	28	2,263	14,449	1,437	2,969	8,812	20,521	4,871	25,393	392	1,850	13,703
Pennsylvania.....	18	11	843	4,681	665	1,303	3,448	6,146	1,621	7,768	153	546	3,713
East North Central.....	77	38	3,047	19,067	2,417	4,778	14,566	28,252	6,562	34,815	674	3,072	20,030
Ohio.....	20	11	569	3,148	416	783	2,240	4,496	997	5,494	117	716	4,150
Indiana.....	6	3	192	1,054	152	294	752	1,438	337	1,775	29	197	1,005
Illinois.....	27	14	1,549	10,154	1,259	2,516	8,021	15,063	3,504	18,568	339	1,674	11,465
Michigan.....	15	7	508	3,398	402	840	2,552	5,407	1,217	6,625	134	354	2,587
Wisconsin.....	9	3	228	1,312	186	342	999	1,846	505	2,352	54	131	823
West North Central.....	18	8	403	2,262	301	570	1,619	3,006	650	3,656	101	429	2,564
Minnesota.....	5	2	142	828	112	215	657	1,196	188	1,385	49	88	(D)
Missouri.....	8	5	193	1,063	135	255	669	1,301	341	1,643	27	241	1,409
South Atlantic.....	13	5	227	1,180	169	326	852	1,511	362	1,874	55	392	2,154
East South Central.....	5	2	127	564	99	218	382	910	239	1,149	(D)	392	2,154
West South Central.....	8	1	61	313	45	84	237	486	151	637	(D)	392	2,154

See footnotes at end of table.



## MANUFACTURES—INDUSTRY STATISTICS

Table 2.—GENERAL STATISTICS BY REGIONS AND STATES: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Industry, region, and State <sup>1</sup>	1954										1947		
	Establishments, number		All employees		Production workers			Value added by manufacture	Cost of materials, etc.	Value of shipments (receipts)	Capital expenditures, new	All employees, number	Value added by manufacture
	Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)		(\$1,000)
Electrotyping and Stereotyping (S.I.C. 2794), —Con.													
Mountain.....	3	...	4	6	3	6	4	35	9	45	(D)	...	...
Pacific.....	20	10	421	2,375	304	570	1,679	3,808	793	4,601	102	369	2,640
California.....	15	9	371	2,099	270	506	1,497	3,344	709	4,053	95	328	(D)

Note: Detailed figures may not add to the totals because of independent rounding.

<sup>1</sup> D Withheld to avoid disclosing figures for individual companies.<sup>2</sup> General statistics for some producing States are not shown separately in the table (see INTRODUCTION "Confidentiality of Data for Individual Companies"). Such States are shown below with the number of establishments in each State for 1954 and, in parentheses, the number of employees or the employment-size range for that State for 1954:

S.I.C. 2791, Typesetting: New England—Maine, 4 (20-99); New Hampshire, 2 (20-99); Vermont, 1 (1-19); Rhode Island, 6 (20-99); Connecticut, 19 (250-499); West North Central—Iowa, 9 (20-99); Nebraska, 4 (20-99); Kansas, 5 (1-19); South Atlantic—Delaware, 2 (1-19); Virginia, 7 (20-99); North Carolina, 7 (2-99); South Carolina, 1 (1-19); Florida, 11 (20-99); East South Central—Kentucky, 7 (20-99); Tennessee, 10 (100-249); Alabama, 1 (1-19); Mississippi, 1 (1-19); West South Central—Louisiana, 10 (20-99); Oklahoma, 8 (20-99); Mountain—Colorado, 8 (20-99); New Mexico, 1 (1-19); Arizona, 3 (20-99); Utah, 1 (1-19); Pacific—Washington, 11 (20-99); Oregon, 9 (20-99).

S.I.C. 2792, Engraving and Plate Printing: New England—New Hampshire, 2 (1-19); Vermont, 1 (1-19); East North Central—Wisconsin, 14 (20-99); West North Central—Minnesota, 7 (20-99); South Dakota, 1 (1-19); Nebraska, 2 (1-19); Kansas, 4 (1-19); South Atlantic—Maryland, 5 (20-99); District of Columbia, 8 (20-99); Virginia, 6 (20-99); West Virginia, 1 (1-19); Georgia, 3 (20-99); Florida, 10 (20-99); East South Central—Tennessee, 5 (20-99); West South Central—Arkansas, 2 (1-19); Louisiana, 7 (20-99); Oklahoma, 2 (20-99); Mountain—Montana, 2 (1-19); New Mexico, 1 (1-19); Arizona, 2 (1-19); Utah, 2 (1-19); Pacific—Washington, 6 (20-99); Oregon, 3 (20-99).

S.I.C. 2793, Photoengraving: New England—Maine, 4 (20-99); New Hampshire, 5 (20-99); West North Central—North Dakota, 2 (1-19); South Dakota, 1 (1-19); Nebraska, 5 (20-99); Kansas, 7 (20-99); South Atlantic—Delaware, 2 (20-99); West Virginia, 4 (20-99); South Carolina, 5 (20-99); Florida, 10 (20-99); East South Central—Kentucky, 8 (20-99); Alabama, 5 (20-99); Mississippi, 1 (1-19); West South Central—Arkansas, 3 (20-99); Louisiana, 6 (20-99); Oklahoma, 9 (20-99); Mountain—Montana, 2 (1-19); Idaho, 3 (1-19); Colorado, 12 (20-99); New Mexico, 2 (1-19); Arizona, 5 (20-99); Utah, 5 (20-99); Nevada, 2 (1-19); Pacific—Oregon, 7 (20-99).

S.I.C. 2794, Electrotyping and Stereotyping: New England—Maine, 1 (1-19); New Hampshire, 1 (20-99); Connecticut, 3 (100-249); Middle Atlantic—New Jersey, 5 (20-99); West North Central—Iowa, 3 (20-99); Nebraska, 2 (1-19); South Atlantic—Maryland, 3 (20-99); District of Columbia, 4 (20-99); Virginia, 2 (20-99); Georgia, 1 (20-99); Florida, 3 (1-19); East South Central—Tennessee, 4 (100-249); Alabama, 1 (1-19); West South Central—Louisiana, 2 (1-19); Oklahoma, 2 (1-19); Texas, 4 (20-99); Mountain—Colorado, 2 (1-19); Utah, 1 (1-19); Pacific—Washington, 3 (1-19); Oregon, 2 (20-99).

## SERVICE INDUSTRIES FOR THE PRINTING TRADE

27C-7

Table 3.--DETAILED STATISTICS FOR THE UNITED STATES: 1954  
(For explanation of line captions see Introduction)

Item	Typesetting (S.I.C. 2791) all estab- lishments	Engraving and plate printing (S.I.C. 2792) all estab- lishments	Photoen- graving (S.I.C. 2793) all estab- lishments	Electrotyping and stereotyping (S.I.C. 2794)	
				All estab- lishments	Establishments with 90% or more primary product specialization
Primary product specialization ratio <sup>1</sup> .....	94	93	95	89	xxx
Coverage ratio <sup>2</sup> .....	87	79	93	89	xxx
Number of establishments, total.....	1,081	567	891	233	196
With 1-19 employees.....	893	498	624	120	110
With 20-99 employees.....	172	61	245	99	80
With 100 employees and over.....	16	8	22	14	6
All employees:					
Number (average for year).....	14,550	7,510	17,711	8,005	5,482
Payroll.....\$1,000..	74,558	29,412	112,575	48,391	33,392
Production workers:					
Number (average for year).....	11,744	6,080	12,778	5,917	3,935
Man-hours.....1,000..	23,082	11,963	25,575	11,728	7,714
Wages.....\$1,000..	57,492	21,739	82,634	34,220	22,807
Value added by manufacture.....do..	106,909	43,385	148,876	69,594	48,274
Cost of materials, etc.....do..	14,481	16,698	24,163	16,299	10,957
Value of shipments (receipts).....do..	121,390	60,084	173,040	85,894	59,231
Value added by resales.....do..	421	278	406	360	229
Cost of products bought and resold.....do..	1,571	932	1,894	2,021	1,124
Sales of products bought and resold.....do..	1,992	1,210	2,301	2,382	1,353
Capital expenditures, new.....do..	4,267	1,702	3,986	1,845	1,097
Number of employees for selected months:					
March.....	14,533	7,339	17,858	8,097	5,503
May.....	14,475	7,444	17,790	8,003	5,461
August.....	14,413	7,431	17,591	7,882	5,413
November.....	14,779	7,827	17,608	8,036	5,535
Cost of materials, fuel, electricity and contract work, total...\$1,000..	14,487	16,698	24,163	16,299	10,957
Materials, parts, containers, and supplies consumed.....do..	9,726	14,851	21,805	14,241	10,073
Electric energy:					
Purchased:					
Quantity.....1,000 kwh..	19	7	25	36	28
Cost.....\$1,000..	544	375	908	762	554
Generated.....1,000 kwh..	...	...	( <sup>3</sup> )	...	...
Cost of contract work.....\$1,000..	4,211	1,472	1,450	1,296	330
Expenditures for plant and equipment, total.....do..	4,591	1,773	4,101	1,918	1,144
Capital expenditures, new.....do..	4,267	1,702	3,986	1,845	1,097
New structures and additions to plant.....do..	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
New machinery and equipment.....do..	3,858	1,367	3,620	1,732	1,042
Expenditures for used plant and equipment.....do..	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )

Note: Detailed figures may not add to the totals because of independent rounding. xxx Not applicable. <sup>1</sup>The specialization ratio compares the given industry's shipments of its primary products to its total shipments of all products. (The primary products are listed in Tables 5B and 6A; the first 4-digits of the product code represent the industry code to which the product is primary.) Columns containing totals for establishments with 90% or more primary product specialization are shown only for those industries having a primary product specialization of less than 90%. <sup>2</sup>The coverage ratio measures the extent to which the total shipments of products primary to the given industry are shipped by establishments classified in that industry. <sup>3</sup>Less than 500 thousand kwh. <sup>4</sup>Less than 500 hp.

Table 4.—SELECTED STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR THE UNITED STATES: 1954

(Value figures in thousands of dollars. For explanation of line captions see Introduction. Data which cannot be shown without disclosing information for individual companies have been combined with figures for other size classes. A (D) appears in the column where the figure has been omitted and the combined figure is underlined and shown in the size-class to the left)

Ind. code	Industry and item	Total, all estab- lish- ments	Establishments with an average of—									
			1-4 em- ployees	5-9 em- ployees	10-19 em- ployees	20-49 em- ployees	50-99 em- ployees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
2791	Typesetting:											
	Number of establishments..	1,081	515	201	177	128	44	16	...	...	...	..
	Number of employees.....	14,550	1,348	1,449	2,546	4,105	2,986	2,115	...	...	...	...
	Value added by manufacture	106,909	9,975	10,290	18,863	29,933	21,223	16,624	...	...	...	..
2792	Engraving & plate printing:											
	Number of establishments..	567	277	126	95	46	15	6	1	...	1	..
	Number of employees.....	7,510	721	868	1,401	1,402	994	2,121	(D)	...	(D)	..
	Value added by manufacture	43,385	4,778	5,343	7,412	7,750	5,502	12,599	(D)	...	(D)	..
2793	Photoengraving:											
	Number of establishments..	891	262	161	201	182	63	21	1	...	...	..
	Number of employees.....	17,711	711	1,167	2,905	5,594	4,061	3,270	(D)	...	...	..
	Value added by manufacture	148,876	5,799	8,694	22,580	44,632	36,840	30,328	(D)	...	...	..
2794	Electrotyping & stereotyping:											
	Number of establishments..	233	46	24	50	69	30	12	2	...	...	..
	Number of employees.....	8,005	112	181	734	2,231	2,109	2,637	(D)	...	...	..
	Value added by manufacture	69,594	1,018	1,315	5,856	18,164	18,830	24,408	(D)	...	...	..

Note: Detailed figures may not equal totals because of independent rounding.

## MANUFACTURES—INDUSTRY STATISTICS

Table 5A.—INDUSTRY-PRODUCT ANALYSIS—SUMMARY OF INDUSTRY AND PRIMARY PRODUCT SHIPMENTS, SPECIALIZATION RATIOS AND COVERAGE RATIOS FOR THE UNITED STATES: 1954 AND 1947

Industry code	Industry and census year	Value of shipments					Value of primary products shipped			
		Total	Primary products	Secondary products	Miscellaneous receipts	Primary product specialization ratio <sup>1</sup>	Total (made in all industries)	Made in this industry	Made in other industries	Coverage ratio <sup>2</sup>
		(\$1,000) (A)	(\$1,000) (B)	(\$1,000) (C)	(\$1,000) (D)	Col. B Col. B+C (Percent) (E)	(\$1,000) (F)	(\$1,000) (G)	(\$1,000) (H)	Col. G Col. F (Percent) (I)
2791	Typesetting.....1954..	121,390	114,327	6,690	373	94	132,135	114,327	17,808	87
	.....1947..	75,703	70,412	4,878	413	94	81,034	70,412	10,622	87
2792	Engraving and plate printing.....1954..	60,084	55,330	3,933	821	93	70,398	55,330	15,068	79
	.....1947..	45,311	41,273	3,800	238	92	51,735	41,273	10,462	80
2793	Photoengraving.....1954..	173,040	163,692	8,163	1,185	95	176,126	163,692	12,434	93
	.....1947..	133,540	126,174	4,760	2,606	96	133,438	126,174	7,264	95
2794	Electrotyping and stereotyping.....1954..	85,894	75,237	9,489	1,168	89	84,439	75,237	9,202	89
	.....1947..	58,984	52,742	4,444	1,798	92	60,911	52,742	8,169	87

<sup>1</sup>The specialization ratio compares the given industry's shipments of its primary products to its total shipments of all products. (The primary products are listed in Tables 5B and 6A; the first 4-digits of the product code represent the industry code to which the product is primary.) <sup>2</sup>The coverage ratio measures the extent to which the total shipments of products primary to the given industry are shipped by establishments classified in that industry.

Table 5B.—INDUSTRY-PRODUCT ANALYSIS—SHIPMENTS BY PRODUCT CLASS AND INDUSTRY, FOR THE UNITED STATES: 1954

(In thousands of dollars. Each column shows for the industry listed in the column heading, the value of shipments divided between printing services, other products, and miscellaneous receipts. Each figure represents the amount of the product class shown at the left shipped by the industry listed at the top of the column. The first four digits of the product class codes at the left represent the codes of the industries to which they are primary. All other product classes in a column represent products secondary to the specified industry)

Prod. class code	Class of products and miscellaneous receipts	Type-setting (S.I.C. 2791)	Engraving and plate printing (S.I.C. 2792)	Photoengraving (S.I.C. 2793)	Electrotyping and stereotyping (S.I.C. 2794)	News-papers (S.I.C. 2711)	Book printing (S.I.C. 2732)	Commercial printing (S.I.C. 2751)	Other industries	All industries
	Total value of receipts of the industry	121,390	60,084	173,040	85,894	xxx	xxx	xxx	xxx	xxx
279	Printing services.....	115,724	55,918	168,076	81,854	8,728	5,843	13,971	12,984	463,098
27910	Typesetting, machine and hand.....	114,327	110	611	3,803	1,812	4,421	4,378	2,673	132,135
27920	Engraving and plate printing.....	433	55,330	812	718	941	223	5,601	6,340	70,398
27930	Photoengraving.....	120	373	163,692	2,096	5,334	(1)	2,007	2,437	176,126
27940	Electrotyping and stereotyping.....	844	105	2,961	75,237	641	1,132	1,985	1,534	84,439
	Other products.....	5,293	3,345	3,779	2,872	xxx	xxx	xxx	xxx	xxx
27510	Commercial printing, letterpress and gravure.....	3,450	1,593	1,486	996	xxx	xxx	xxx	xxx	xxx
27610	Lithographing.....	699	941	2,058	(1)	xxx	xxx	xxx	xxx	xxx
	Other secondary products.....	1,144	811	235	1,839	xxx	xxx	xxx	xxx	xxx
	Miscellaneous receipts.....	373	821	1,185	1,168	xxx	xxx	xxx	xxx	xxx

<sup>1</sup>Less than \$100 thousand.

Table 6.—QUANTITY AND VALUE OF PRODUCTS SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, FOR THE UNITED STATES: 1954 AND 1947

Product code	Product	Value of products (receipts) (\$1,000)	
		1954	1947
2791---	Typesetting, total.....	132,135	81,034
2791011	Trade typesetting.....	71,517	56,055
2791051	Advertising typography.....	35,704	24,979
2791000	Typesetting, not specified by kind <sup>1</sup> .....	24,914	...
2792---	Engraving and plate printing, total.....	70,398	51,735
2792051	Engraving (steel and copperplate, rubber wood), and plate printing, not elsewhere reported.....	70,398	251,735
2793011	Photoengraving plates made for others (flat and cylindrical).....	176,126	133,438
2794---	Electrotyping and stereotyping, total.....	84,439	60,911
2794011	Electrotyping (service to printing trades).....	57,318	45,779
2794031	Stereotyping (service to printing trades).....	7,833	6,858
2794051	Matrixes made for others.....	14,589	8,274
2794000	Electrotyping, stereotyping, and matrixes made for others, not reported separately <sup>1</sup> .....	4,699	...

<sup>1</sup>Largely accounted for by small establishments that were not asked to report a breakdown of their total receipts.

<sup>2</sup>Includes \$2,398 thousand of engraving textile printing rollers.



## Major Group 28.—Chemicals and Products

The major group includes establishments producing basic chemicals, and establishments manufacturing products by predominantly chemical processes. Establishments classified in this major group manufacture three classes of products: (1) basic chemicals such as acids, alkalies, salts, and organic chemicals; (2) chemical products to be used in further manufacture such as synthetic fibers, plastics materials, crude animal and vegetable oils, dry colors, and pigments; and (3) finished chemical products to be used for ultimate consumption such as drugs, cosmetics, and soaps; or to be used as materials or supplies in other industries such as paints, fertilizers, and explosives. The mining of natural rock salt and the recovery of sodium, potassium and boron compounds from natural salts are classified in Mining Industries. Establishments primarily engaged in manufacturing non-ferrous metals and high percentage ferro-alloys are classified in Major Group 33, Primary Metal Industries; silicon carbide, in Industry 3291, Abrasive Products; baking powder, other leavening compounds, and starches in Major Group 20, Food and Kindred Products; and embalming fluids and artists' colors in Major Group 39, Miscellaneous Manufactures. Establishments primarily engaged in packaging, repacking and bottling of purchased chemicals and allied products are classified in Trade Industries.

The industrial classification system provides for separate groupings of plants manufacturing by chemical process products which are essentially (a) raw materials for other industries, and (b) finished consumption goods such as drug preparations, paint, soap, fertilizers, formulated insecticides or cosmetics. While these distinctions may be made for a host of chemical products, they are by no means definitive in the case of a number of such products and of the plants producing them. When such problems arose the decisions made were primarily based upon the following criteria:

- (a) Whether the product produced is a compound or a mixture and/or formulation. In the former case, the product is considered to be a basic chemical while mixtures and formulations have the characteristic of finished consumer goods;
- (b) Whether the plant is engaged in activities which result in a product chemically different from the raw materials it uses (prime producers) or whether the resultant product is merely a modified form or grade of the chemical purchased. For example, distinctions are made between plants producing high strength hydrogen peroxide (prime producer) and those making a weak strength product from purchased, high strength material; or between plants whose products are shipped to chemical processors and those whose activity is devoted to the preparation of packaged products, destined primarily for household or consumer use.

The classification system not only draws a line of demarcation between chemical processing industries and chemical consuming industries, but also requires in a few areas, that distinctions be made among the latter industries. For example, the industry classification system specifies that plants producing soap or a soap product from fatty acids be considered as prime soap producers and classified in Industry 2841, Soap and Glycerin, while plants engaged in producing the same soap product from a purchased soap (soap converters) be classified in Industry 2842, Cleaning and Polishing Preparations. A similar type of distinction is made between fertilizer plants (Industries 2871 and 2872).

Reference should be made to the "Introduction" for a description of the conditions under which plants performing some manufacturing may be classified in "Business" or "Mining." In 1954, for example, all plants producing potash salts from mined ores, regardless of process used, are classified in mining, whereas plants producing salt (sodium chloride) by evaporation are classified in manufacturing and those mining natural rock, in mining. While measures of the volume of merchandising activity (sale of goods bought and resold without further processing) are available (see Table 3) there are none indicating the volume of manufacturing performed by chemical plants classified in Wholesale or Retail Trade. However, the amount is believed to be relatively significant in such fields as Cleaning and Polishing Preparations (Industry 2842), Fertilizers, (Industry Group 287) and Agricultural Insecticides and Fungicides, (Industry 2897).

On the other hand, the classification system in the basic organic and inorganic chemical industries does not require, except for medicinal grades, that distinctions be made between plants manufacturing fine and heavy (i.e., large tonnage, low price per unit of weight) chemicals. The latter include such products as the common acids, alkalies, benzene, ethanol and methanol, which are produced in large quantities at low unit cost and under conditions of large scale production and continuous operation. In contrast, fine chemicals, including medicinal or those sold for laboratory use or for testing or analytical purposes, are produced in "batch lots," with small scale operational techniques giving primary consideration to purity or grade of product and only secondarily to cost.

The rapid and dynamic growth of the chemical industry not only has its effects upon the adequacy of the classification system but also upon the composition of the compiled data. As late as 1939, the classification system called for the compilation of statistics for such chemical industries as bluing and writing ink, and plants manufacturing agricultural insecticides and fungicides were grouped with household chemical compounds or specialties. Since then, newer industries such as Synthetic Fibers (2825), Synthetic (Chemical) Rubbers (2824), and Plastics (2823) have come into being and have expanded rapidly. The growth of chemical consuming industries has also led to an expanding output of basic organic and inorganic chemicals. Older industries, too, such as Pharmaceutical Preparations (2834) have shown marked strides since 1947 as a result of the expanding production of new products such as the antibiotics. On the other hand, the increasing output of synthetic organic detergents has been accompanied by declines in soap sales, and the older wood chemical industries (286) are continuing to decline and be adversely affected by the production of identical products synthetically.

Geographically, the rates of increase in the chemical industries have been larger in the South Central and Pacific Regions than elsewhere. This movement is largely caused by the current growth in "petrochemicals" and by the presence of other key chemical raw materials such as salt, lime, and sulfur. The influence of labor rates as a factor in this regional development is of negligible importance since the chemical producing industries and many of the chemical processing industries are characterized by high capital investment per worker. Despite this rapid growth in the regions named above, approximately half of the total value added by manufacture by plants classified in this major group is contributed by those located in the Middle Atlantic and East North Central States.



In recent years the Federal Government has expanded its operations in the chemical industries. Following the S.I.C. recommendations, Census data for 1954 include information for all Government-owned and privately operated facilities. The 1947 statistics, however, are not directly comparable due to the differences in "coverage" as indicated below:

Facility	Census of Manufactures	
	1954	1947
Government-owned and operated		
Tennessee Valley Authority.....	Excluded	Included
Other plants.....	Excluded	Excluded
Government-owned and privately operated		
Rubber Reserve Corporation.....	Included	Included
Other plants.....	Included	Excluded

From the viewpoint of coverage, the statistics for 1939 are directly comparable with those for 1947. On the other hand, the 1949-1953 Annual Survey of Manufactures data approximate the plant coverage indicated for the 1954 Census of Manufactures.

A further characteristic of the chemical industries is their emphasis upon research. The cost of such research, its effect upon high obsolescence of capital and quality and type of product produced are reflected by the high ratio of value added to value of shipments. The employment data for these industries only partially include these research personnel, including supporting workers, since separate reports for such activities were secured and classified as auxiliary facilities when (a) the geographical location of the laboratory differed from the manufacturing plants, or (b) when the laboratory, located at the same site as a manufacturing plant, was of significant size and could be reported as a separate unit from the manufacturing plant.

The statistics for each of the industries included in this major group reflect the economic characteristics of the particular industry. However, the following general observations regarding these data should be noted:

- (1) A sizeable proportion of some basic inorganic and organic chemicals is produced in plants which utilize at the same location these products in the preparation of other products. The appropriate sections of the industry text contain a discussion of captive output whenever it is a significant factor. The basis for securing separate reports concerning such "captive" activities is explained under "Introduction" (See Definition of Establishment). For many plants producing basic organic and inorganic chemicals and consuming these in the manufacture of explosives, plastics, rayon, soap, pulp, glass, petroleum, or other products, no separate reports were obtained for these "captive" departments. Data for such "captive" production are not shown separately but are included in the industrial statistics for the industry in which the final products of the plant are classified.
- (2) Many of the individual industries in Major Group 28, particularly those in industries 2819 and 2829, include a heterogeneous group of products. For example, products of the Inorganic Chemical Industry (2819) range from items with national dollar sales totaling less than \$10,000 to others totaling more than \$100,000,000; from chemicals which are highly strategic to others whose principal use is clearly non-strategic; from products which are manufactured by one or two companies to items which are sold under highly competitive conditions; and from products requiring simple and standard techniques involving little capital equipment to those requiring highly trained staffs and large expenditures of capital. As a result, the industry aggregates are composed of data for plants differing widely in size and many other characteristics.

(3) Many chemical products are produced commercially by two or more different processes. Therefore, an analysis of the Census of Manufactures data should, take into consideration the fact that material and labor relationships may vary significantly from plant to plant depending upon the process used, even for those producing the same chemical item.

(4) Particularly in the chemical producing industries, products may be manufactured as a co-product (i.e., the process results in two or more products of approximately equal commercial value), or as a byproduct. Dependent upon market conditions byproducts may be treated as waste materials rather than as commercial items. For example, crude salt cake and Glauber's salt (crude salt cake refined to the point where the material contains 10 parts water of crystallization and is represented by the formula  $\text{Na}_2\text{SO}_4 \cdot 10\text{H}_2\text{O}$ ) occur naturally, may be produced as a co-product in the manufacture of hydrochloric acid from salt, or may be produced as a byproduct in the manufacture of viscose rayon, sodium dichromate, phenol, and other chemicals. Some rayon plants, for varying economic reasons, do not carry on operations to make their waste product into commercial grades of Glauber's salt. In addition, Glauber's salt, may be made from purchased crude salt or from one's own material. Other plants may continue the refining operations of crude salt cake to a point where no water of crystallization occurs and thus manufacture anhydrous refined sodium sulfate. Plant-by-plant differences of this type are characterized by variations in processing, labor requirements and material needs, and results in significant variations in input and output ratios.

(5) A slight modification in the physical or chemical form of basic chemical or allied products often results in changing the classification of products. For example, an increasing proportion of plants appear to be modifying ("up grading") their basic chemicals and selling them as insecticidal preparations, chemical specialties, or cleaning and polishing preparations, rather than limiting their activity to sale of basic inorganic or organic chemicals.

(6) In the basic chemical processing industries, plants within the same industry classification are frequently the principal customers for other plants classified in the industry. The supplier and user relationship is of two types—that between plants of the same company ownership and that between plants of different company ownership. The published data at times provide some measures of these relationships. For example, measures of the shipments included in the first category (interplant transfers) may be derived from the statistics shown in Table 6A, Quantity and Value of Products (the difference between total shipments and commercial shipments). This measure as well as that relating to commercial shipments, however, do not provide all the information needed to determine the overstatement in the total value of finished products shipped by the industry. For many industries, and particularly for the more important products, approximate measures of the overstatement may also be computed from the data appearing in Table 7, Materials Consumed.

(7) The data appearing in Table 6A, Quantity and Value of Products are limited to the products defined as primary to the specified industry. For example, the statistics for nitrogen compounds shown for Industry 2819 relate only to synthetic inorganic compounds, whereas information for synthetic organic nitrogen compounds appear in the chapters relating to Industrial Organic Chemicals Industry (2829); byproduct nitrogen, (ammonium sulfate), in the Byproduct Coke Industry (2931); natural organic fertilizer tankage and bone meal, in the Grease and Tallow Industry (2886) and other organic nitrogenous fertilizer materials in the Vegetable Oil Mill Industries (288).

## CHEMICALS AND PRODUCTS

28-3

Table 1.—GENERAL STATISTICS FOR THE INDUSTRY GROUP: 1954 AND EARLIER YEARS

(For explanation of column captions see Introduction)

Year <sup>1</sup>	Establish- ments, number	All employees <sup>2</sup>		Production workers			Value added by manufacture <sup>3</sup>	Capital expendi- tures, new	Horsepower of prime movers and electric motors <sup>4</sup>
		Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
1954 <sup>2</sup> .....	11,075	739,389	3,407,199	501,272	1,016,053	2,005,627	9,443,629	926,613	14,329
1953 <sup>2</sup> .....	(NA)	768,425	3,400,132	536,124	1,093,799	2,102,610	9,320,348	943,977	
1952 <sup>2</sup> .....	11,007	739,437	3,116,834	513,336	1,062,534	1,903,590	8,539,266	1,018,992	(NA)
1951 <sup>2</sup> .....	10,909	702,906	2,784,370	497,513	1,028,738	1,733,029	8,164,512	980,478	
1950 <sup>2</sup> .....	10,339	642,469	2,341,957	456,591	954,775	1,470,795	7,236,618	602,998	3,763
1949 <sup>2</sup> .....	(NA)	612,030	2,092,082	440,060	921,836	1,319,495	5,847,549	598,126	
1947.....	10,019	626,418	1,898,472	464,144	974,684	1,236,012	5,317,001	804,958	(NA)
1939 <sup>2</sup> .....	8,839	(NA)	(NA)	275,669	(NA)	342,068	1,818,941	(NA)	
1937 <sup>2</sup> .....	8,337			303,291		366,264	1,731,584		
1935.....	8,225	302,036	305,788	293,493	254,011	1,028,503	1,362,960	(NA)	
1933.....	7,297			254,011		216,822	1,120,562		
1931 <sup>10</sup> .....	8,324	(NA)	(NA)	248,238	(NA)	259,444	1,358,942	(NA)	
1929.....	9,327	381,618	549,968	307,387		352,303	1,737,266		
1927 <sup>11</sup> .....	8,594	347,825	491,906	278,053	(NA)	318,964	1,473,644	(NA)	
1925 <sup>12</sup> .....	8,160	(NA)	(NA)	260,872		296,823	1,320,058		
1923 <sup>13</sup> .....	8,253	340,604	459,281	264,297	(NA)	285,800	1,184,500	(NA)	
1921.....	8,208	278,927	369,058	212,264		218,396	833,662		
1919.....	10,688	387,928	497,216	293,466	(NA)	306,413	1,197,948	(NA)	
1914.....	10,698	269,153	192,109	207,654		106,080	456,929		
1909.....	10,280	235,360	143,862	184,976	(NA)	81,970	401,389	(NA)	
1904.....	8,370	191,183	102,545	158,410		65,033	286,271		
1899 <sup>14</sup> .....	7,669	169,862	79,630	143,552	(NA)	50,878	211,778	(NA)	

NA Not available.

<sup>1</sup>In addition to data for operating establishments, manufacturers' central administrative offices and auxiliary units reported 62,561 employees with a payroll of \$406,280 thousand in 1954. Similar data are shown for the years 1949-1953 in the Annual Survey of Manufactures volumes. Data for these units are not available for the years prior to 1949.

<sup>2</sup>The figures for 1939 through 1954 include data for employees of manufacturing establishments who are engaged in distribution and construction work. The extent to which data for such employees are included in the figures for earlier years is not known.

<sup>3</sup>Value of products less cost of materials, supplies, fuel, electricity, and contract work. For 1899-1933, cost of contract work was not subtracted from value of products in calculating value added by manufacture.

<sup>4</sup>Driven by purchased energy.

<sup>5</sup>The figures for 1949-1954 include data for Government-owned plants operated by private firms for the account of the Federal Government. See text above for further explanation.

<sup>6</sup>The figures for 1949-1953 represent estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period.

<sup>7</sup>The figures prior to 1939 include data for establishments primarily engaged in manufacture of electrometallurgical products, included from 1939 in the "Primary metal" industries. Value added by manufacture for 1939, including data for these establishments and on a basis comparable with earlier years, was \$1,837.5 million.

<sup>8</sup>The figures for 1899-1935 but not for later years, include data for establishments primarily engaged in mining of rock salt or in smelting and refining of aluminum. Value added by manufacture for 1937, including data for these establishments and on a basis comparable with 1935, was \$1,759.1 million.

<sup>9</sup>The figures for 1899-1935, but not for later years, include data for woods employees of the Gum naval stores industry. Woods employees in 1937 (for which data are not included in the figures) were reported as follows: Production and related workers, 30,880 and wages \$8.6 million.

<sup>10</sup>The figures for 1899-1931 do not include data for establishments primarily engaged in manufacture of ethyl alcohol, included for these years in the figures for the "Food and kindred products" industries.

<sup>11</sup>The figures for 1899-1927 include data for establishments other than petroleum refineries engaged in the manufacture of lubricating oils, which are included for later years in the series for the petroleum and coal products industries.

<sup>12</sup>The figures for 1899-1925 include data for establishments primarily engaged in manufacturing of vegetable cooking oils, included for later years in the series for the food and kindred products industries.

<sup>13</sup>The figures for 1899-1923, but not for later years, include data for certain establishments primarily engaged in manufacture of rubber cement. Value added by manufacture for 1925, including data for these establishments and on a basis comparable with 1923, was \$1,321.2 million.

<sup>14</sup>The figures for 1899 only include data for establishments primarily engaged in manufacture of candles. Value added by manufacture for 1904, including data for these establishments and on a basis comparable with 1899, was \$287.2 million.

## MANUFACTURES--INDUSTRY STATISTICS

Table 2.--GENERAL STATISTICS FOR INDUSTRY GROUPS BY REGIONS AND STATES: 1954 AND 1947  
(For explanation of column captions see Introduction)

Industry group, region, and State <sup>1</sup>	1954								1947	
	Number of establish- ments	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
		Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
Chemicals and products (S.I.C. Group 28), total <sup>2</sup> ..	11,075	739,389	3,407,199	501,272	1,016,053	2,005,627	9,443,629	926,613	626,418	5,317,001
New England.....	710	27,586	122,729	18,554	37,417	70,139	332,811	24,271	28,518	217,537
Maine.....	38	576	1,885	440	1,011	1,275	4,893	( <sup>3</sup> )	695	5,336
New Hampshire.....	22	362	1,454	259	498	839	2,866	( <sup>3</sup> )	498	2,801
Vermont.....	13	231	787	189	399	547	2,726	( <sup>3</sup> )	341	2,777
Massachusetts.....	426	15,587	69,718	10,077	19,847	37,946	186,543	13,757	17,940	144,150
Rhode Island.....	62	1,301	5,514	874	1,803	2,991	10,216	1,893	1,349	10,239
Connecticut.....	149	9,528	43,371	6,714	13,857	26,539	125,565	8,102	7,695	52,234
Middle Atlantic.....	2,964	194,682	908,303	128,601	259,493	515,727	2,504,467	168,711	191,841	1,630,711
New York.....	1,407	67,752	306,904	46,393	94,579	178,121	872,140	43,032	67,234	583,820
New Jersey.....	844	81,731	400,885	52,426	105,575	224,552	1,121,765	86,381	81,149	737,987
Pennsylvania.....	713	45,198	200,514	29,781	59,337	113,053	510,561	39,297	43,458	308,904
East North Central.....	2,351	166,300	797,959	111,519	226,029	460,329	2,163,190	176,257	142,319	1,344,035
Ohio.....	683	42,826	200,747	28,262	57,303	116,809	566,366	52,465	37,204	346,995
Indiana.....	242	26,298	131,487	17,522	36,250	75,487	343,491	22,007	20,224	245,836
Illinois.....	833	50,403	235,348	33,447	67,230	132,329	663,699	53,969	45,063	420,697
Michigan.....	380	37,936	190,271	26,398	53,092	113,164	497,024	42,912	33,946	281,323
Wisconsin.....	213	8,835	40,104	5,888	12,152	22,538	92,608	4,902	5,882	49,184
West North Central.....	881	40,419	175,480	27,753	54,796	107,406	530,303	55,308	32,515	328,324
Minnesota.....	182	5,288	21,999	3,571	7,650	13,786	102,484	4,047	4,952	68,205
Iowa.....	171	6,039	24,969	4,462	9,087	15,787	76,977	6,457	5,227	50,977
Missouri.....	355	17,890	80,166	11,289	22,537	43,639	225,617	12,179	15,566	129,249
South Dakota.....	12	108	397	89	175	299	603	(D)	218	1,644
Nebraska.....	70	1,645	6,454	1,166	2,492	3,958	14,834	(D)	1,456	10,926
Kansas.....	85	9,407	41,340	7,155	12,810	29,872	109,561	17,050	5,065	66,841
South Atlantic.....	1,286	125,713	541,069	87,437	177,118	324,464	1,418,161	149,155	108,706	778,942
Delaware.....	37	6,007	27,416	4,287	8,601	17,532	101,706	9,787	7,040	59,863
Maryland.....	184	12,724	52,007	8,973	18,345	32,085	146,634	8,978	18,120	142,418
District of Columbia	13	220	1,067	167	377	565	1,858	( <sup>3</sup> )	178	1,216
Virginia.....	157	34,977	146,800	27,218	54,139	101,798	435,655	33,796	33,767	218,528
West Virginia.....	61	21,570	111,208	15,798	32,075	75,953	316,922	43,722	20,631	175,898
North Carolina.....	215	11,414	44,141	8,166	16,581	25,014	107,032	10,201	9,490	58,607
South Carolina.....	115	19,264	93,021	7,965	16,255	29,320	148,166	(D)	3,637	16,595
Georgia.....	279	10,084	31,494	7,577	15,266	19,397	79,500	5,912	11,119	77,043
Florida.....	225	9,449	33,911	7,281	15,475	22,795	80,684	(D)	4,724	28,774
East South Central.....	515	65,328	288,814	47,235	96,956	183,758	730,644	72,194	45,975	291,949
Kentucky.....	96	9,653	45,752	6,458	13,290	27,399	143,673	12,605	4,785	47,953
Tennessee.....	179	42,885	196,586	30,687	62,046	124,954	454,064	(D)	28,199	162,567
Alabama.....	147	7,410	27,754	5,539	11,624	18,455	82,930	7,496	8,204	46,087
Mississippi.....	93	5,378	18,721	4,550	9,995	12,949	49,975	(D)	4,787	35,342
West South Central.....	834	61,208	289,754	43,949	92,038	190,230	1,045,737	236,690	42,093	388,966
Arkansas.....	56	5,191	20,528	4,243	8,935	15,795	62,888	14,272	4,145	29,194
Louisiana.....	177	17,479	83,752	12,846	26,800	57,153	250,238	67,476	12,852	113,482
Oklahoma.....	79	1,561	5,547	1,106	2,173	3,236	10,553	13,765	1,589	12,127
Texas.....	522	36,976	179,926	25,753	54,128	114,045	722,056	141,176	23,507	234,163
Mountain.....	218	13,988	67,500	8,131	16,573	34,270	158,860	11,967	3,864	29,059
Montana.....	12	837	3,662	560	1,192	2,443	5,833	1,306	435	2,149
Idaho.....	12	859	3,886	611	1,324	2,608	12,783	4,213	149	1,609
Colorado.....	92	3,145	14,430	1,899	3,766	7,856	33,024	2,817	1,275	8,271
New Mexico.....	21	5,967	31,807	2,690	5,267	12,169	67,472	533	343	2,999
Arizona.....	36	1,333	5,607	957	2,138	3,410	15,669	923	616	5,771
Utah.....	37	1,131	4,756	861	1,718	3,363	12,343	(D)	642	5,112
Pacific.....	1,316	44,162	215,588	28,089	55,630	119,299	559,453	32,055	30,584	307,478
Washington.....	122	11,069	61,425	6,305	12,440	32,209	118,107	3,102	2,086	15,570
Oregon.....	84	1,513	6,620	1,021	1,970	3,941	17,209	1,253	1,155	11,750
California.....	1,110	31,579	147,542	20,762	41,220	83,148	424,136	27,700	27,343	280,158
Inorganic chemicals (S.I.C. Group 281), total <sup>2</sup> .....	518	121,252	593,576	77,544	158,415	346,270	1,386,544	219,273	65,447	425,184
New England.....	23	567	2,435	450	892	1,594	5,294	( <sup>3</sup> )	1,734	9,801
Massachusetts.....	12	281	1,249	210	441	833	3,106	( <sup>3</sup> )	(D)	(D)
Middle Atlantic.....	119	12,823	60,780	9,262	18,844	39,908	151,537	17,699	13,635	98,428
New York.....	42	6,587	31,978	4,701	9,750	20,914	75,175	11,298	5,959	35,473
New Jersey.....	46	4,404	20,670	3,232	6,512	13,821	53,639	3,851	(D)	(D)
Pennsylvania.....	31	1,831	8,132	1,328	2,581	5,172	22,723	2,549	(D)	(D)
East North Central.....	110	24,697	119,943	17,856	36,879	81,312	270,021	42,812	19,575	131,226
Ohio.....	39	11,570	55,516	8,166	17,080	37,734	134,323	15,461	7,820	58,976
Indiana.....	9	1,657	9,225	1,165	2,332	5,852	23,506	3,512	(D)	(D)
Illinois.....	31	4,532	21,601	3,457	6,956	14,880	50,496	11,195	(D)	(D)
Michigan.....	22	6,895	33,459	5,039	10,458	22,757	61,108	12,564	6,546	37,570

See footnotes at end of table.



## CHEMICALS AND PRODUCTS

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Table 2.—GENERAL STATISTICS FOR INDUSTRY GROUPS BY REGIONS AND STATES: 1954 and 1947—Continued  
(For explanation of column captions see Introduction)

Industry group, region, and State <sup>1</sup>	1954								1947	
	Number of establish- ments	All employees		Production workers			Value added by manu- facture	Capital expendi- tures, new	All employees, number	Value added by manu- facture
		Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
<b>Inorganic chemicals (S.I.C. Group 281)—Continued</b>										
West North Central.....	26	2,390	10,679	1,639	3,412	6,998	34,212	13,807	1,667	14,720
Missouri.....	7	412	1,768	325	639	1,309	3,190	(D)	(D)	(D)
Kansas.....	10	1,443	6,512	940	1,939	4,149	24,082	11,890	(D)	(D)
South Atlantic.....	72	25,321	120,731	12,354	25,257	50,423	216,408	21,817	7,631	53,137
Maryland.....	14	2,348	9,587	1,742	3,748	6,537	22,027	1,324	717	4,955
Virginia.....	10	4,048	16,260	3,157	6,537	11,766	55,515	7,790	3,653	25,119
West Virginia.....	9	3,375	16,235	2,274	4,907	11,070	40,708	10,736	1,801	15,300
Georgia.....	14	662	1,038	470	974	628	3,862	(3)	(D)	(D)
Florida.....	14	336	1,275	281	592	985	4,295	(3)	(D)	(D)
East South Central.....	29	17,548	86,145	11,815	24,491	53,346	222,815	24,028	5,201	29,102
Kentucky.....	6	2,468	11,997	1,595	3,235	7,179	31,726	2,052	(D)	(D)
Alabama.....	6	1,187	5,184	919	1,920	3,876	28,919	1,031	(D)	(D)
West South Central.....	54	14,628	68,296	10,583	21,834	46,569	198,548	80,724	7,201	46,691
Arkansas.....	4	3,110	13,994	2,572	5,166	11,166	44,437	11,133	(D)	(D)
Louisiana.....	17	6,420	30,611	4,258	9,040	19,203	80,760	50,720	3,305	19,878
Oklahoma.....	7	293	1,224	155	264	462	1,146	9,917	(D)	(D)
Texas.....	26	4,804	22,466	3,598	7,363	15,736	72,204	8,953	2,072	13,974
Mountain.....	20	8,718	44,989	4,545	9,021	20,638	100,651	6,239	734	5,772
Colorado.....	7	1,150	5,705	725	1,477	3,403	12,601	(3)	(D)	(D)
Utah.....	3	281	1,290	196	407	864	5,149	585	(D)	(D)
Pacific.....	65	14,556	79,575	9,035	17,781	45,479	187,054	11,812	5,069	36,307
Washington.....	12	9,333	53,897	5,201	10,249	27,967	101,188	1,521	(D)	(D)
Oregon.....	4	403	1,822	317	623	1,393	5,865	737	(D)	(D)
California.....	49	4,820	23,856	3,517	6,908	16,118	80,000	9,553	4,486	31,758
<b>Organic chemicals (S.I.C. Group 282), total<sup>2</sup></b>	772	245,465	1,193,196	176,220	351,388	769,231	3,214,454	430,665	203,914	1,536,066
New England.....	78	9,515	45,986	6,451	13,248	27,111	119,335	14,062	7,517	45,956
Massachusetts.....	40	5,283	25,255	3,424	6,863	14,073	59,195	10,259	3,915	23,672
Rhode Island.....	8	297	1,334	232	460	758	2,543	(3)	(D)	(D)
Connecticut.....	23	3,767	18,719	2,660	5,605	11,833	56,220	3,599	3,051	17,712
Middle Atlantic.....	254	63,973	320,992	44,114	87,915	195,846	742,614	74,515	67,128	468,072
New York.....	84	15,130	76,364	10,801	21,540	47,073	163,069	14,113	15,425	115,871
New Jersey.....	108	30,565	160,569	20,366	40,023	95,006	379,897	37,314	32,794	246,944
Pennsylvania.....	62	18,278	84,059	12,946	26,351	53,766	199,647	23,087	18,909	105,257
East North Central.....	150	38,261	188,061	27,476	56,029	122,731	410,696	62,192	20,123	188,892
Ohio.....	61	7,924	36,124	6,168	12,186	25,786	103,331	21,124	5,338	57,767
Indiana.....	11	5,172	25,876	4,070	8,617	19,270	41,576	1,282	712	10,279
Illinois.....	44	9,133	44,780	6,259	13,018	28,786	92,041	21,064	3,628	27,961
Michigan.....	21	12,265	64,845	8,094	16,068	37,101	152,572	18,059	9,389	87,280
Wisconsin.....	13	3,765	16,434	2,883	6,137	11,787	21,174	662	1,056	5,605
West North Central.....	18	8,924	41,640	6,998	13,846	30,886	82,889	21,536	4,071	29,492
Minnesota.....	5	142	555	107	217	360	1,414	(3)	47	(D)
South and West.....	272	124,790	596,516	91,179	180,348	392,655	1,858,917	258,359	105,075	803,654
Delaware.....	11	3,726	16,873	2,631	5,145	10,471	55,857	(D)	4,019	33,881
Maryland.....	11	2,773	11,899	1,999	4,059	7,631	24,716	2,220	(D)	(D)
Virginia.....	21	25,690	110,438	20,244	39,536	77,987	311,421	23,960	24,302	157,828
West Virginia.....	20	17,650	93,163	13,104	26,421	63,711	271,693	32,878	18,247	157,193
North Carolina.....	14	6,254	27,586	4,222	8,425	15,555	66,572	7,984	(D)	(D)
Kentucky.....	11	4,118	20,771	2,806	5,561	12,894	80,439	7,280	(D)	(D)
Louisiana.....	13	6,326	35,681	4,797	9,381	25,293	125,533	10,710	4,947	64,385
Texas.....	37	19,355	106,373	12,773	25,707	65,661	481,626	118,275	10,512	110,218
Utah.....	3	242	1,079	210	401	895	3,075	(3)	220	1,782
<b>Drugs and medicines (S.I.C. Group 283), total<sup>2</sup></b>	1,371	92,062	426,430	57,927	117,075	216,003	1,336,562	55,761	81,497	747,311
New England.....	72	3,252	13,965	2,402	4,969	8,742	41,003	3,992	2,278	24,695
Massachusetts.....	43	1,179	4,870	804	1,507	2,210	10,977	1,002	7,888	(D)
Connecticut.....	19	1,923	8,570	1,496	3,264	6,276	28,371	(D)	(D)	(D)
Middle Atlantic.....	478	41,407	188,396	25,752	53,367	98,264	651,813	22,969	33,457	325,790
New York.....	269	19,510	85,997	13,042	27,333	48,763	327,882	8,550	15,156	134,819
New Jersey.....	99	13,757	66,476	8,123	17,113	33,856	198,330	10,888	13,010	130,460
Pennsylvania.....	110	8,139	35,921	4,586	8,920	15,645	125,599	3,529	5,291	60,511
East North Central.....	292	30,734	152,214	19,014	37,544	73,918	435,809	20,255	30,125	279,741
Ohio.....	72	2,257	9,911	1,057	2,116	3,167	20,724	651	2,331	15,384
Indiana.....	42	10,639	56,382	6,513	13,435	27,615	150,562	8,776	10,260	112,124
Illinois.....	102	8,335	37,808	4,796	9,021	16,559	121,652	5,828	8,219	73,366
Michigan.....	50	8,619	44,413	6,252	12,175	25,371	135,064	4,647	8,339	73,978
Wisconsin.....	26	883	3,700	394	794	1,205	7,805	(3)	976	4,889

See footnotes at end of table.



## MANUFACTURES—INDUSTRY STATISTICS

Table 2.—GENERAL STATISTICS FOR INDUSTRY GROUPS BY REGIONS AND STATES: 1954 and 1947—Continued  
(For explanation of column captions see Introduction)

Industry group, region, and State <sup>1</sup>	1954							1947		
	Number of establish- ments	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
		Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
Drugs and medicines (S.I.C. Group 283)—Continued										
West North Central.....	138	7,279	31,543	4,305	8,734	15,582	78,024	2,432	7,154	55,888
Minnesota.....	26	240	724	165	285	366	1,973	(3)	(D)	(D)
Iowa.....	23	1,077	4,558	653	1,359	2,055	12,542	642	1,124	6,557
Missouri.....	59	5,220	23,286	2,986	6,089	11,643	55,863	1,491	4,788	40,308
Nebraska.....	15	447	1,897	294	613	920	5,872	(3)	635	4,338
South and West.....	391	9,388	40,311	6,451	12,460	19,494	129,912	6,111	8,483	61,197
Maryland.....	25	862	3,031	552	1,060	1,450	10,328	(3)	782	7,679
Virginia.....	24	1,333	6,497	824	1,606	3,040	35,664	(3)	1,070	7,029
North Carolina.....	18	346	2,002	409	780	1,068	8,281	(3)	600	7,994
Georgia.....	18	259	901	174	303	424	4,287	600	(D)	(D)
Florida.....	15	177	583	122	227	272	1,647	(3)	113	922
Tennessee.....	16	1,592	6,233	901	1,848	2,623	21,295	(3)	2,086	11,473
Mississippi.....	4	634	2,162	533	1,008	1,512	6,158	(3)	49	(D)
Texas.....	41	483	1,664	308	485	758	3,199	(D)	374	2,166
California.....	141	3,191	14,751	2,092	4,147	6,901	33,086	1,805	2,620	19,046
Soap and related products (S.I.C. Group 284), total...	1,543	46,221	219,412	27,571	51,973	107,627	827,668	27,648	44,864	606,801
New England.....	182	4,152	19,397	2,458	4,752	9,278	65,878	2,745	5,141	54,328
Massachusetts.....	129	3,253	15,081	1,962	3,745	7,641	57,702	1,071	4,183	47,294
Rhode Island.....	19	304	1,402	207	451	816	2,353	1,524	(D)	(D)
Connecticut.....	25	456	2,296	211	409	622	3,956	(3)	499	3,101
Middle Atlantic.....	445	15,568	73,962	8,957	17,363	34,538	207,442	9,044	15,211	174,487
New York.....	207	4,030	17,158	2,730	5,212	10,000	71,396	861	5,369	76,338
New Jersey.....	127	9,264	47,063	4,756	9,427	19,777	113,018	7,492	7,239	73,849
Pennsylvania.....	111	2,273	9,740	1,470	2,723	4,761	23,027	690	2,603	24,300
East North Central.....	372	14,179	70,883	8,545	16,789	35,291	317,811	10,284	14,376	219,764
Ohio.....	97	3,604	19,078	2,165	4,346	9,485	82,350	1,455	3,927	67,526
Indiana.....	28	3,561	16,925	2,178	4,383	9,592	74,413	2,877	3,805	78,579
Illinois.....	128	4,582	21,849	2,789	5,464	10,754	82,623	1,524	5,068	53,405
West North Central.....	129	3,885	17,695	2,502	3,471	9,873	81,819	2,072	3,407	53,252
Iowa.....	19	203	1,033	112	198	308	1,362	(3)	(D)	(D)
Missouri.....	61	1,663	7,784	950	1,847	3,730	33,944	690	1,101	12,021
Kansas.....	8	1,672	7,803	1,176	1,009	5,206	43,916	1,072	(D)	(D)
South Atlantic.....	111	2,626	11,221	1,734	3,196	6,029	47,766	959	2,389	45,874
Maryland.....	22	1,513	6,757	1,082	1,944	4,284	37,118	(3)	(D)	(D)
North Carolina.....	20	218	870	145	261	355	2,379	(3)	(D)	(D)
Georgia.....	23	609	2,634	326	638	922	5,692	(3)	541	5,193
Florida.....	19	132	404	81	162	200	858	(3)	(D)	(D)
East South Central.....	26	358	1,271	187	355	526	2,668	(3)	336	1,234
Tennessee.....	19	280	1,035	146	249	407	2,222	(3)	(D)	(D)
West South Central.....	68	853	3,649	582	1,153	2,194	22,186	(3)	878	15,402
Texas.....	50	780	3,445	527	1,047	2,063	21,595	(3)	780	15,092
Mountain.....	22	189	784	92	158	215	1,201	(3)	88	683
Colorado.....	11	140	635	55	109	158	918	(3)	69	(D)
Pacific.....	188	4,407	20,549	2,511	4,731	9,679	80,893	1,999	3,038	41,777
Oregon.....	12	108	470	65	127	212	844	(3)	(D)	(D)
California.....	163	4,205	19,871	2,399	4,513	9,359	79,674	1,960	2,860	40,639
Paints and allied products (S.I.C. Group 285), total...	1,671	69,973	324,005	43,673	87,408	167,344	849,895	30,092	68,933	583,557
New England.....	111	2,636	11,244	1,558	3,112	5,255	24,861	719	2,707	18,413
Massachusetts.....	70	1,800	7,641	1,089	2,177	3,659	18,886	(3)	1,696	12,675
Rhode Island.....	10	324	1,339	146	295	545	1,985	(D)	289	2,268
Connecticut.....	24	410	1,941	231	450	804	3,120	(3)	584	2,561
Middle Atlantic.....	497	23,067	108,488	15,047	30,463	59,312	287,923	11,227	23,642	191,485
New York.....	215	6,212	29,693	4,089	8,365	15,324	69,481	1,313	7,043	66,223
New Jersey.....	176	9,913	47,739	6,564	13,487	27,788	153,119	5,558	9,553	76,281
Pennsylvania.....	106	6,941	31,056	4,394	8,610	16,199	65,322	4,355	7,046	48,981
East North Central.....	423	22,198	106,217	13,415	26,393	51,799	256,160	7,236	22,522	193,964
Ohio.....	127	6,846	30,855	4,046	7,811	14,907	77,649	2,285	7,276	60,802
Indiana.....	31	1,346	7,007	715	1,337	2,526	12,296	(3)	1,746	13,043
Illinois.....	161	8,849	42,737	5,646	11,333	22,252	101,652	2,988	8,529	76,489
Michigan.....	78	4,026	20,361	2,439	4,815	10,039	53,416	1,323	3,794	36,406
Wisconsin.....	26	1,129	5,256	567	1,095	2,073	11,145	(3)	1,177	7,224

See footnotes at end of table.

## CHEMICALS AND PRODUCTS

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Table 2.—GENERAL STATISTICS FOR INDUSTRY GROUPS BY REGIONS AND STATES: 1954 and 1947—Continued  
(For explanation of column captions see Introduction)

Industry group, region, and State <sup>1</sup>	1954							1947		
	Number of establish- ments	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
		Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
Paints and allied products (S.I.C. Group 285)—Continued										
West North Central.....	113	6,132	27,415	3,869	7,513	14,779	85,336	1,641	5,638	50,260
Minnesota.....	21	731	3,127	391	789	1,450	6,145	(3)	(D)	(D)
Iowa.....	11	533	2,333	385	730	1,472	11,157	(3)	373	8,160
Missouri.....	69	4,310	19,877	2,666	5,221	10,412	61,782	1,161	3,868	32,987
Kansas.....	7	516	1,995	404	727	1,373	6,121	(3)	(D)	(D)
South Atlantic.....	130	4,898	21,405	3,245	6,645	11,683	73,808	5,238	4,726	35,325
Maryland.....	29	1,749	7,588	1,189	2,543	4,346	21,443	2,867	1,687	12,942
Virginia.....	20	726	2,869	503	986	1,594	7,715	(D)	875	4,335
West Virginia.....	5	121	460	90	176	322	1,530	(3)	(D)	(D)
North Carolina.....	20	391	1,900	262	537	907	3,958	(3)	238	2,135
Georgia.....	24	730	2,649	443	887	1,176	7,179	(3)	427	2,753
East South Central.....	46	2,367	10,627	1,359	2,946	4,782	26,763	1,153	2,268	20,441
Kentucky.....	22	1,585	7,485	908	2,017	3,435	21,743	674	1,593	16,724
Tennessee.....	13	539	2,083	303	626	858	3,179	(3)	472	2,178
Alabama.....	8	228	1,003	139	285	463	1,684	(3)	189	1,473
West South Central.....	83	2,089	8,828	1,188	2,481	4,000	21,975	650	1,559	14,762
Louisiana.....	19	387	1,494	237	483	733	2,378	(3)	382	2,286
Texas.....	56	1,512	6,609	861	1,815	2,993	18,292	(3)	977	10,662
Mountain.....	19	451	1,964	267	506	913	3,944	(3)	368	2,069
Colorado.....	10	306	1,266	168	301	571	2,269	(3)	280	1,606
Pacific.....	249	6,130	27,814	3,721	7,346	14,818	69,122	2,106	5,503	56,838
Washington.....	12	217	895	133	275	498	1,959	(3)	327	2,195
Oregon.....	17	322	1,437	190	382	780	3,283	(3)	271	2,844
California.....	220	5,591	25,482	3,396	6,688	13,539	63,878	1,902	4,905	51,799
Gum and wood chemicals (S.I.C. Group 286), total...	117	7,245	26,680	6,052	12,764	19,872	62,053	7,742	8,447	62,796
New England.....	8	42	168	25	42	67	402	(3)	48	759
Middle Atlantic.....	23	436	1,622	353	734	1,075	3,292	(3)	999	4,248
New Jersey.....	7	116	515	91	191	274	1,079	(3)	(D)	(D)
Pennsylvania.....	8	274	950	229	476	708	1,953	(3)	787	2,163
North Central.....	20	1,018	3,345	871	1,775	2,608	4,255	(3)	693	3,789
South Atlantic.....	36	2,338	8,519	1,947	4,075	6,407	25,505	3,249	(D)	(D)
Georgia.....	20	1,301	4,877	1,058	2,199	3,587	19,089	1,522	1,251	17,579
Florida.....	9	820	3,030	694	1,525	2,344	5,224	1,712	993	6,046
East South Central.....	16	2,272	8,599	1,895	4,072	6,393	18,946	2,429	(D)	(D)
Tennessee.....	4	415	1,437	344	762	1,087	1,985	(3)	702	2,590
Alabama.....	6	181	474	156	339	376	1,073	(3)	398	2,414
Mississippi.....	6	1,676	6,688	1,395	2,971	4,930	15,888	2,358	1,745	16,763
West South Central.....	10	1,124	4,388	948	2,040	3,288	9,556	1,301	(D)	(D)
Louisiana.....	6	940	3,816	796	1,750	2,883	8,479	1,149	833	5,919
Pacific.....	4	14	39	11	22	31	95	(3)	(D)	(D)
Fertilizers (S.I.C. Group 287), total.....	840	31,769	111,528	24,595	53,102	76,914	252,422	46,587	31,972	186,926
New England.....	30	661	2,291	484	1,085	1,481	4,970	(3)	980	5,156
Maine.....	14	259	860	187	430	517	2,333	(3)	362	2,262
Massachusetts.....	8	246	853	186	417	615	1,951	(3)	391	1,738
Middle Atlantic.....	75	2,290	8,580	1,741	3,774	6,092	16,085	2,593	2,284	13,766
New York.....	25	558	2,091	433	928	1,447	4,722	(3)	(D)	(D)
New Jersey.....	19	1,045	4,188	810	1,749	3,095	6,882	1,760	(D)	(D)
Pennsylvania.....	31	686	2,300	498	1,097	1,549	4,479	(3)	743	4,223
East North Central.....	116	5,721	23,328	4,455	9,604	16,490	60,084	10,478	4,841	(D)
Ohio.....	40	2,062	8,222	1,555	3,393	5,509	19,903	2,612	2,132	14,045
Indiana.....	26	1,026	4,217	842	1,906	2,976	11,567	3,215	702	5,139
Illinois.....	30	1,729	6,978	1,344	2,681	5,086	18,928	2,588	1,572	11,284
Michigan.....	8	531	2,266	427	944	1,758	5,514	1,742	(D)	(D)
Wisconsin.....	12	372	1,645	285	678	1,160	4,170	(3)	(D)	(D)
West North Central.....	62	1,574	6,110	1,269	3,004	4,474	18,546	3,394	366	(D)
Minnesota.....	9	248	1,001	191	452	717	4,187	(3)	(D)	(D)
Iowa.....	17	461	1,756	376	856	1,372	5,115	844	(D)	(D)
Missouri.....	13	515	1,978	431	1,046	1,458	5,889	1,292	(D)	(D)
Nebraska.....	11	147	648	120	311	460	1,247	(3)	(D)	(D)

See footnotes at end of table.

## MANUFACTURES—INDUSTRY STATISTICS

Table 2.—GENERAL STATISTICS FOR INDUSTRY GROUPS BY REGIONS AND STATES: 1954 and 1947—Continued  
(For explanation of column captions see Introduction)

Industry group, region, and State <sup>1</sup>	1954								1947	
	Number of establish- ments	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
		Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
Fertilizers (S.I.C. Group 287)—Continued										
South Atlantic.....	317	13,793	44,642	10,928	23,493	31,158	94,512	20,779	16,322	87,593
Maryland.....	26	1,572	5,745	1,203	2,546	4,050	13,088	765	3,441	21,045
Virginia.....	36	1,949	6,524	1,569	3,483	4,781	15,625	957	2,252	13,335
North Carolina.....	58	2,162	6,061	1,670	3,433	3,930	14,468	685	2,301	12,460
South Carolina.....	48	1,449	3,846	1,168	2,456	2,653	7,244	( <sup>2</sup> )	2,320	9,600
Georgia.....	88	2,772	7,399	2,261	4,762	5,196	11,180	1,268	3,475	16,352
Florida.....	51	3,688	14,395	2,904	6,529	10,202	31,551	16,624	2,404	14,330
East South Central.....	91	3,194	9,296	2,613	5,661	6,689	21,695	3,265	3,622	18,426
Kentucky.....	16	362	1,207	286	646	822	3,126	958	236	1,250
Tennessee.....	18	1,130	3,854	934	2,089	2,788	9,981	1,596	1,319	6,550
Alabama.....	41	1,135	2,932	934	1,962	2,089	5,559	( <sup>3</sup> )	1,435	7,917
Mississippi.....	16	567	1,303	457	962	990	3,028	( <sup>3</sup> )	632	2,709
West South Central.....	56	2,601	9,373	1,982	4,061	6,431	26,129	3,430	2,018	15,513
Arkansas.....	11	488	1,346	357	734	829	4,563	745	365	2,542
Louisiana.....	12	652	2,033	506	989	1,389	3,511	( <sup>3</sup> )	897	3,857
Oklahoma.....	6	139	519	111	247	364	1,023	( <sup>3</sup> )	...	...
Texas.....	27	1,321	5,474	1,007	2,090	3,847	17,032	2,253	756	9,114
Mountain.....	19	730	3,108	435	929	1,777	3,754	1,279	1,539	9,602
Pacific.....	74	1,201	4,798	684	1,487	2,320	6,644	1,103		
Washington.....	12	133	471	93	180	298	565	513		
California.....	58	1,033	4,179	572	1,267	1,944	5,914	579		
Vegetable and animal oils (S.I.C. Group 288), total...	1,013	39,964	152,708	31,003	71,890	105,291	385,475	41,442	43,323	482,002
New England.....	32	844	3,419	675	1,482	2,675	8,158	( <sup>3</sup> )	927	11,666
Maine.....	8	142	448	124	294	391	936	( <sup>3</sup> )	121	951
Massachusetts.....	15	426	1,781	316	667	1,313	4,066	( <sup>3</sup> )	584	7,697
Middle Atlantic.....	119	5,057	21,753	3,799	8,417	15,068	59,170	7,655	5,515	84,514
New York.....	38	1,551	7,163	1,254	2,859	5,417	15,182	1,932	2,128	33,747
New Jersey.....	30	2,372	10,126	1,787	3,907	7,039	35,368	3,525	2,040	39,833
Pennsylvania.....	51	1,133	4,464	757	1,650	2,611	8,619	2,197	1,347	10,934
East North Central.....	142	8,837	40,476	6,414	14,391	27,182	111,818	9,747	9,205	121,178
Ohio.....	37	2,118	9,676	1,500	3,213	6,471	28,213	3,038	2,848	29,121
Indiana.....	26	1,134	4,920	795	1,747	3,166	13,385	768	746	7,891
Illinois.....	44	4,529	21,083	3,276	7,411	13,894	59,845	5,121	4,412	72,913
Michigan.....	14	763	3,642	603	1,430	2,765	8,113	( <sup>3</sup> )	866	7,966
Wisconsin.....	21	292	1,154	238	589	883	2,260	521	333	3,287
West North Central.....	151	4,572	17,705	3,503	7,761	12,604	46,952	5,661	4,036	70,009
Minnesota.....	32	1,439	6,036	1,136	2,899	5,016	18,439	1,205	1,250	34,627
Iowa.....	64	1,744	6,445	1,423	2,862	4,487	16,305	2,126	1,548	21,579
Missouri.....	19	802	3,172	509	1,071	1,703	7,348	1,457	(D)	(D)
Nebraska.....	19	262	902	187	422	603	2,355	(D)	262	3,047
South Atlantic.....	150	5,522	15,758	4,489	10,280	10,845	32,017	4,918	6,415	39,762
Maryland.....	12	255	981	190	404	599	1,993	( <sup>3</sup> )	239	2,146
Virginia.....	13	556	2,012	463	1,097	1,484	4,369	582	689	5,270
North Carolina.....	36	1,313	3,302	989	2,236	2,108	6,339	816	1,369	7,300
South Carolina.....	26	732	1,966	592	1,433	1,240	3,251	793	920	5,061
Georgia.....	40	1,721	4,443	1,434	3,170	3,093	7,907	906	2,181	11,545
Florida.....	15	524	1,571	451	1,064	1,084	3,446	579	(D)	(D)
East South Central.....	107	4,481	13,530	3,622	8,776	9,278	33,072	3,227	5,269	39,319
Kentucky.....	9	265	886	211	504	654	2,324	( <sup>3</sup> )	292	4,945
Tennessee.....	27	1,256	4,330	998	2,571	3,063	11,713	963	1,345	11,289
Alabama.....	28	989	2,780	796	1,798	1,813	4,429	(D)	1,358	8,347
Mississippi.....	43	1,970	5,533	1,616	3,902	3,746	14,606	(D)	2,274	14,738
West South Central.....	178	6,488	20,303	5,310	13,552	14,556	47,811	6,161	8,170	56,529
Arkansas.....	22	1,105	3,466	908	2,166	2,430	8,681	2,031	1,670	13,016
Louisiana.....	27	941	3,003	772	2,028	2,157	6,882	867	971	6,549
Oklahoma.....	18	486	1,259	421	860	986	3,710	( <sup>3</sup> )	848	5,283
Texas.....	111	3,955	12,575	3,208	8,497	8,982	28,538	3,000	4,681	31,681
Mountain.....	35	1,133	4,558	892	2,149	3,182	14,246	1,036	644	6,108
New Mexico.....	5	170	691	151	388	550	1,827	(D)	(D)	(D)
Arizona.....	10	728	3,029	563	1,356	2,034	10,087	784	237	2,889
Pacific.....	99	3,026	15,203	2,296	5,079	9,898	32,228	2,597	3,142	52,917
Washington.....	17	167	786	133	296	519	1,351	( <sup>3</sup> )	271	3,120
California.....	71	2,740	14,018	2,058	4,593	9,052	30,027	2,443	2,693	46,600

See footnotes at end of table.

## CHEMICALS AND PRODUCTS

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Table 2.—GENERAL STATISTICS FOR INDUSTRY GROUPS BY REGIONS AND STATES: 1954 and 1947—Continued  
(For explanation of column captions see Introduction)

Industry group, region, and State <sup>1</sup>	1954							1947		
	Number of establish- ments	All employees		Production workers			Value added by manu- facture (\$1,000)	Capital expendi- tures, new (\$1,000)	All employees, number	Value added by manu- facture (\$1,000)
		Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)				
Chemical products, n.e.c. (S.I.C. Group 289), total...	3,230	85,436	359,661	56,684	112,035	197,071	1,128,552	67,398	81,020	686,358
New England.....	174	5,915	23,823	4,047	7,831	13,933	62,908	1,696	7,187	46,763
Connecticut.....	47	2,656	10,406	1,866	3,593	6,067	31,297	520	2,068	9,975
Middle Atlantic.....	954	30,058	123,727	19,572	38,613	65,621	384,589	22,616	29,970	269,921
New York.....	519	14,126	56,300	9,307	18,523	29,088	144,970	4,448	15,582	118,424
New Jersey.....	232	10,291	43,537	6,694	13,162	23,893	180,429	15,839	9,990	119,519
Pennsylvania.....	203	5,640	23,889	3,570	6,927	12,639	59,189	2,328	4,398	31,978
North Central.....	970	26,312	116,182	17,133	33,674	61,204	399,055	17,690	27,032	223,314
Indiana.....	69	1,759	6,934	1,239	2,490	4,487	16,182	1,182	1,237	7,321
Illinois.....	288	8,666	38,285	5,852	11,291	20,045	136,121	3,652	9,403	82,186
Michigan.....	109	2,784	12,405	2,034	4,287	8,068	33,359	1,570	3,565	27,122
Iowa.....	31	252	693	182	349	479	1,548	(3)	498	2,608
Missouri.....	114	2,164	8,834	1,332	2,490	3,904	23,924	1,160	2,244	17,051
Nebraska.....	13	200	770	111	224	337	1,049	(3)	(D)	(D)
Kansas.....	21	939	3,565	691	1,423	2,466	10,128	1,857	1,099	8,501
South Atlantic.....	262	4,850	18,161	3,157	6,289	8,915	49,628	2,793	3,386	24,070
West Virginia.....	13	151	565	99	207	319	1,414	(3)	245	1,178
South Carolina.....	11	161	748	117	218	337	2,187	(3)	46	(D)
East South Central.....	120	2,257	8,224	1,588	3,161	4,875	19,452	2,431	1,317	8,913
Kentucky.....	23	790	3,216	612	1,252	2,320	3,831	1,421	250	2,151
Tennessee.....	49	844	3,041	526	1,079	1,502	9,322	611	737	3,879
Alabama.....	32	343	1,150	248	474	680	3,234	(D)	(D)	(D)
Mississippi.....	16	279	816	200	354	372	3,063	(D)	(D)	(D)
West South Central.....	265	6,913	29,933	5,205	10,801	20,580	107,266	12,811	5,041	54,219
Louisiana.....	55	1,669	6,701	1,374	2,925	5,250	21,343	3,565	1,366	10,012
Oklahoma.....	29	303	1,202	207	379	685	2,686	3,343	291	2,705
Mountain.....	78	1,620	7,192	1,054	2,179	4,188	22,044	1,194	892	7,265
Colorado.....	32	846	3,929	502	1,001	2,040	13,029	654	287	2,372
Utah.....	15	287	1,129	221	456	797	2,087	(3)	228	1,458
Pacific.....	407	7,508	32,416	4,925	9,483	17,752	83,608	6,164	6,192	51,893
Washington.....	33	368	1,527	209	417	807	3,358	(3)	379	3,139
Oregon.....	26	424	1,930	256	476	909	4,724	(3)	292	2,616
California.....	348	6,715	28,959	4,459	8,589	16,035	75,525	5,775	5,521	46,138

NOTE: Detailed figures may not add to the totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>Each producing state not shown separately has been withheld either (a) to avoid disclosing figures for individual companies; or (b) because the State had less than 100 employees in the industry group. Such state figures are included, however, in the appropriate regional and United States totals.<sup>2</sup>The 1954 figures include data for government-owned privately operated plants whereas the 1947 data exclude this information but include figures for the Tennessee Valley Authority.<sup>3</sup>Less than \$500 thousand.



## MANUFACTURES—INDUSTRY STATISTICS

Table 3.--DETAILED STATISTICS FOR THE INDUSTRY GROUP: 1954

(For explanation of line captions see Introduction)

Item	Major industry group 28	Item	Major industry group 28
Number of establishments, total.....	11,075	Cost and quantity of purchased fuel and electricity—Con.	
With 1-19 employees.....	7,115	Electric energy:	
With 20-99 employees.....	2,818	Purchased:	
With 100 employees and over.....	1,142	Quantity.....million kwh..	46,255
All employees:		Cost.....\$1,000..	286,015
Number (average for year).....	739,389	Generated.....million kwh..	16,425
Payroll.....\$1,000..	3,407,199	Sold:	
Production workers:		Quantity.....do....	1,514
Number (average for year).....	501,272	Value.....\$1,000..	16,378
Man-hours.....1,000..	1,016,053	Manufacturers' inventories:	
Wages.....\$1,000..	2,005,627	Beginning of year, total.....do....	2,948,218
Value added by manufacture.....do....	9,443,629	Finished products.....do....	1,178,286
Value added by resales.....do....	178,661	Work-in-process.....do....	418,720
Number of employees for selected months:		Materials, supplies, fuel, etc.....do....	1,351,205
March.....	751,985	End of year, total.....do....	2,852,860
May.....	738,912	Finished products.....do....	1,178,659
August.....	733,745	Work-in-process.....do....	407,237
November.....	738,339	Materials, supplies, fuel, etc.....do....	1,266,959
Cost and quantity of purchased fuel and electricity:		Expenditures for plant and equipment:	
Fuels consumed, total cost.....\$1,000..	335,295	Capital expenditures, new.....do....	926,613
Bituminous coal and anthracite:		New structures and additions to plant.....do....	223,603
Quantity.....1,000 short tons..	21,009	New machinery and equipment.....do....	703,010
Value.....\$1,000..	142,247	Expenditures for used plant and equipment.....do....	24,037
Coke:		Horsepower rating of power equipment at end of 1954:	
Quantity.....1,000 short tons..	27	Total horsepower of prime movers and electric	
Value.....\$1,000..	422	motors driven by purchased energy.....1,000 hp..	14,329
Fuel oil:		Engines, etc., driving electric generators....do....	3,671
Quantity.....1,000 barrels..	17,688	Engines, etc., not driving electric	
Value.....\$1,000..	50,368	generators.....do....	2,987
Gas:		Electric motors driven by purchased energy....do....	7,671
Quantity.....million cubic feet..	481,510	Electric motors driven by energy generated at the	
Value.....\$1,000..	128,568	establishment.....do....	2,717
Other fuels:			
Value.....do....	13,690		

Note: Detailed figures may not add to totals because of independent rounding.





## Industrial Inorganic Chemicals

This report shows 1954 Census of Manufactures statistics for establishments classified into each of the following industries:

Code	Title
2811--Sulfuric Acid	
2812--Alkalies and Chlorine	
2819--Industrial Inorganic Chemicals, Not Elsewhere Classified	

Establishments primarily engaged in manufacturing inorganic paint pigments are classified in the Inorganic Color Pigments Industry 2852; inorganic insecticide preparations in the Insecticides and Fungicides Industry 2897; medicinal grades of inorganic chemicals in the Medicinal Chemicals Industry 2833; and compressed and liquefied gases in Industry 2896.

### 2811--Sulfuric Acid

This industry comprises establishments primarily engaged in producing sulfuric acid by the contact or chamber process. Thus the industry, as defined, excludes activities relating to recovered sulfuric acid except those involving the fortifying (strengthening) of spent acid by the addition of sulfur trioxide. Recovery and reuse of acid by such methods, as hydrolysis and evaporation, (concentration) or mixing of weak and strong acids are generally carried on in connection with other manufacturing activities and thus no separate Census of Manufactures reports were received and only fragmentary statistics relating to spent acid have been compiled. The product detail compiled for this chemical appears in Table 6A product codes 2811111 to 2811451.

The value of shipments of Industry 2811, Sulfuric Acid in 1954 totaled \$139 million. This included shipments of sulfuric acid (primary products) valued at \$107 million, shipments of other products (secondary products) valued at \$31 million, and miscellaneous receipts of \$1 million.

Industry 2811 shipments of sulfuric acid in 1954 represented 78 percent of its total product shipments (primary and secondary). Secondary products shipped by this industry in 1954 consisted mainly of inorganic chemicals \$21 million; and miscellaneous chemical products totaling \$10 million.

Industry 2811 shipments of sulfuric acid (primary products) in 1954 represented 66 percent of the sulfuric acid shipped for sale or interplant transfer by all industries valued at \$66 million. Other industries shipping sulfuric acid for sale or for interplant transfer consisted mainly of Industry 2819, Inorganic Chemicals, \$22 million; Industry 2871, Fertilizers, \$7 million; Industry 2829, Organic Chemicals, N.E.C., \$5 million; and Industry 3333, Primary Zinc, \$8 million.

The figure 66 percent is known as the "coverage ratio," that is, it measures the extent to which all shipments of primary products of an industry are "covered" by plants classified in that industry, as distinguished from secondary producers elsewhere. Based on quantities produced, establishments classified in Industry 2811 manufactured 41 percent of the United States total of approximately 14 million short tons (100% H<sub>2</sub>SO<sub>4</sub>) of sulfuric acid, a large proportion of which is consumed in the manufacture of other chemicals by producing plants. The comparable 1947 percentage based on the production of approximately 11 million short tons is 37 percent.

The statistics for this industry appearing in the 1947 Census of Manufactures and Annual Survey of Manufactures Volumes were not shown separately, but were included with the data for Industrial Inorganic Chemicals, N.E.C. (S.I.C. No. 2819). Selected 1947 data have been retabulated for comparability with 1954 statistics.

The combination of low bulk value and high transportation cost of sulfuric acid cause sulfuric acid plants to be widely scattered and many to be integrated with operations involving the utilization of the acid. The statistics for Industry 2811 shown in Tables 1 through 4 in this report apply only to those plants for which separate reports were available, while data for "captive" plants are included in the statistics of the industry in which the final products of the plant are classified, such as "Explosive" Industry (S.N.C. No. 2826), or Fertilizer Industry (S.I.C. No. 2871). Of the 180 plants producing sulfuric acid in 1947 and of the 205 in 1954, reports classified in this industry were filed by 43 and 47 plants, respectively. Based upon the industrial classification of establishments producing sulfuric acid, the distribution for 1947 and 1954 is shown below.

QUANTITIES OF SULFURIC ACID PRODUCED BY INDUSTRIAL CLASSIFICATION OF ESTABLISHMENT: 1954 AND 1947  
(Figures in 1,000 short tons of 100% H<sub>2</sub>SO<sub>4</sub>)

Code	Title	1947		1954	
		Total production <sup>1</sup>	Produced and consumed in producing plant	Total production <sup>1</sup>	Produced and consumed in producing plant
	TOTAL.....	10,780	4,076	14,376	6,075
2811	Sulfuric acid.....	3,951	137	5,838	176
2819	Inorganic chemicals.....	1,853	811	1,962	1,005
2826	Explosives.....	67	(D)	384	273
2822-29	Organic chemicals.....	954	611	935	490
2852	Inorganic pigments.....	333	323	997	837
2871-72	Fertilizers.....	2,552	1,864	3,134	2,805
2911	Petroleum refiners.....	274	242	356	346
xxx	Other industries.....	796	(D)	770	143

(D) Data withheld to avoid disclosing figures for individual companies.

<sup>1</sup>The difference between total production and amount produced and consumed closely approximates commercial sales and transfers to other plants of the company.



Due to demands for stronger acid, economies in transportation and for other reasons, the number of plants utilizing the contact process to produce sulfuric acid has increased and the number employing the chamber process has declined. At only 10 locations in 1947 and at only 8 in 1954 were both processes employed in the same establishment. Since acid may be strengthened in contact units by the addition of sulfur trioxide, statistics relating to the input of this acid have also been compiled in order to measure the output of virgin acid. In addition to the statistics appearing in Table 6A, Quantity and Value of Products, data relating to the number of plants, by process, for 1954 and 1947 are as follows:

PROCESS	1954	1947
By chamber process only.....	77	85
By contact process only.....	120	85
By both chamber and contact.....	8	10
Fortifiers of spent acid.....	21	25

The principal material consumed in manufacturing sulfuric acid is sulfur dioxide secured from sulfur bearing materials such as sulfur, pyrites, waste gases from smelters, hydrogen sulfide, and in recent years from sludge (spent sulfuric acid). The statistics for these materials shown in Table 7A include quantities of sulfur, pyrites, and sludge burnt either in the production of contact or chamber acid.

Monthly data showing the production and stocks of sulfuric acid by process and for grades (oleum and other than oleum) appear in the Census publication Facts for Industry Series M19A, Inorganic Chemicals and Gases. Supplementary information showing the quantities of sulfuric acid produced as a by-product of copper, zinc, and lead plants is compiled and published by the Bureau of Mines, U.S. Department of Interior. The reporting concepts for production in all of these series are identical and the figures represent primary production by the oxidation of sulfur or sulfur bearing materials, including sludge.

#### 2812--Alkalies and Chlorine

This industry comprises establishments primarily engaged in manufacturing sodium hydroxide (caustic soda), potassium hydroxide (caustic potash), soda ash, potassium carbonate, sodium bicarbonate, sal soda, and chlorine. Establishments primarily engaged in manufacturing ammonium compounds or alkali metals are classified in Industry 2819, Industrial Inorganic Chemicals, N.E.C.; and plants primarily engaged in mining natural potassium, or sodium alkalies are classified in SIC Industry 1474, Potash, Soda And Borate Minerals, a non-manufacturing industry. For a detailed list of products primary to this industry, refer to Table 6A, product codes 2812111 to 3812481.

The value of shipments of Industry 2812, Alkalies and Chlorine in 1954 totaled \$400 million. This included shipments of alkalies and chlorine (primary products) valued at about \$305 million, shipments of other products (secondary products) valued at \$94 million and miscellaneous receipts of \$1 million.

Industry 2812 shipments of alkalies and chlorine in 1954 represented 76 percent of its total product shipments (primary and secondary). In 1947, this primary product specialization ratio was 81 percent. This change of 5 percent reflects the increase in shipments of organic chemicals by establishments primarily producing alkalies and chlorine. Secondary products shipped by Industry 2812 in 1954 consisted mainly of miscellaneous acyclic chemicals, \$25 million; intermediates, \$4 million; pesticides and other organic agricultural chemicals, \$4 million; industrial inorganic chemicals, \$20 million; and other products, which either require chlorine or alkalies in their preparation, such as chlorine bleaching compounds or cleaning preparations, or are recovered as by-product operations, such as carbon dioxide, totaling \$36 million.

Industry 2812 shipments (including interplant transfers) of chlorine and alkalies (primary products) in 1954 represented 84 percent of those products valued at \$363 million produced for sale or interplant transfer by all industries. This coverage ratio in 1947 was 85 percent. The remaining 16 percent in 1954 was shipped almost entirely by plants either in the inorganic or organic chemical industries, n.e.c., (S.I.C. No. 2819 and 2829). However, 94 percent of the total shipments (including interplant transfers) of soda ash is accounted for by plants classified in

Industry 2812, whereas the percentage for chlorine is less than 80 percent.

Eighty-two (82) percent of the total 1954 estimated production value of alkalies and chlorine (including captive production) are produced by Industry 2812; 13 percent by Industries 2822 and 2829, Organic Chemicals, 2 percent in Industry 2611, Pulp Mills, and the remainder in other industries.

The "heavy chemicals," chlorine and sodium alkalies, are utilized in the manufacture or treatment of paper and pulp products as well as in the production of chemicals, soaps, rayon or textiles, or refining of vegetable oil and petroleum and, therefore, a considerable proportion of the total produced is used captively. As indicated in the table below only about two thirds of the total caustic soda and 55 percent of the total chlorine are produced in establishments classified in Industry 2812. (For consumption data see Table 7 Series.)

Marketwise, quantities are also "captive held" since the above products are shipped to other plants of the same company classified in other industries. A measure of the quantities so shipped may be derived by subtracting from the totals the amount sold commercially, the statistics for which appear separately in Table 6A.

When using the Census of Manufactures data for state, regional, or United States totals, the following developments should also be noted:

(1) Most manufacturers of sodium carbonate (soda ash) also produce caustic, chlorine, and sodium bicarbonate.

(2) Declines in sodium hydroxide (caustic soda) output by the lime soda process have been accompanied by a reduction in the number of plants utilizing this process. In 1939 and in 1947, nine plants employed the lime soda process whereas in 1954 only seven plants reported the production of this chemical by this process. During the 1940's, the output of lime soda caustic represented about 19 percent of the total supply, while the quantities produced in 1954 account for only 15 percent of the total.

(3) When producing caustic soda by the electrolytic process, chlorine occurs as a co-product. With a growing market for this product, manufacturers of caustic soda by this process may have a competitive advantage over other sodium alkali producers in those general areas involving acid neutralization. The current output of sodium carbonate (soda ash) thus has not been expanding, despite its entrenched use in glass and alumina manufacture, and reached its all-time high in 1951 when about 5 million tons (58% Na<sub>2</sub>O basis) was produced.

(4) Chlorine production has doubled since 1947 and 1954 output is about six times the 1939 quantity of 514,401 short tons. This increase is partly due to expansion of existing facilities as evidenced by the fact that the 1939 data are based on reports received from 32 plants; the 1947 data, from 47; and the 1954 data, from 53 plants. Furthermore, an increasing amount of this gas is being liquified as indicated by tonnage increases from 644 thousand tons for 1947, to 1,585 thousand tons for 1954, which figures represent about 45% and 55%, respectively, of the 1947 and 1954 totals.

(5) To satisfy the growing demand for chlorine or chlorine derivatives in plastics (vinyl chloride), synthetic fibers, refrigerants, propellants, solvents, paint removers, insecticides and herbicides, (BBC, DDT, and toxaphene) as well as many other chlorinated hydrocarbons for antiknock additives, anti-freeze and other uses, molten salt is being electrolyzed, making chlorine with sodium rather than caustic as a co-product. Greater utilization of by-product hydrochloric acid (see below), which at one time represented a serious waste disposal problem, is also being evidenced. Some measures of the effect of these developments are provided by data appearing in Table 6A, showing the quantities produced by process.

Data concerning the industry's major material inputs--limestone and salt--were not compiled by the Census Bureau. Such information may be derived from statistics appearing in the Minerals Yearbook, published by the Bureau of Mines, U.S. Department of Interior. These data, however, may not be directly compared with the statistics for "cost of materials" because of the factors regarding plant classification in the Census of Manufactures data as described above. In addition, establishments classified in this industry were requested in 1954 to report separately the amount and cost of coal, coke and petroleum gases used as a fuel and as a raw material. As a result, the fuel

## QUANTITIES OF CAUSTIC SODA AND CHLORINE PRODUCED BY INDUSTRIAL CLASSIFICATION OF ESTABLISHMENT 1954 AND 1947

Code	Title	Caustic soda (Quantity in short tons of 58% Na <sub>2</sub> O)		Chlorine (Quantity in short tons)	
		1947	1954	1947	1954
	TOTAL.....	2,103,150	3,409,754	1,443,219	2,903,723
2812	Alkalies and chlorine.....	1,425,106	2,162,178	662,714	1,602,511
2611	Pulp mills.....	68,616	91,947	68,090	84,969
2822-29	Organic chemicals.....	609,428	944,916	633,457	973,716
xxx	Other industries.....		210,713	78,353	242,527

statistics appearing in Table 3 are not directly comparable with the data for 1947, since such distinctions were not made in the latter census.

Monthly data showing production, shipments, stocks, and consumption at producing plants for chlorine and the principal sodium alkalies appear in Facts for Industry Series M19A, Inorganic Chemicals and Gases. Monthly production and stock data for caustic potash are also published in this release. The reporting concepts for all of these series are identical and the slight variations in the figures, which do exist, result from minor reporting differences.

2819--Inorganic Chemicals, N.E.C. (Full Standard Industrial Classification Title: Industrial Inorganic Chemicals, Not Elsewhere Classified)

This industry comprises establishments primarily engaged in manufacturing industrial inorganic chemicals which are not elsewhere classified. Important products of this industry include inorganic acids such as boric, hydrochloric, hydrofluoric, nitric, and phosphoric; inorganic salts of sodium, potassium, aluminum, calcium, chromium, magnesium, mercury, nickel, silver, and tin; inorganic compounds such as alums, calcium carbide, sodium silicate, ammonium compounds, and anhydrous ammonia; and elemental bromine and iodine. Establishments primarily engaged in manufacturing sulfuric acid are also classified in this industry. Establishments primarily engaged in manufacturing inorganic paint pigments are classified in Industry 2852, Inorganic Color Pigments Industry, and medicinal grades of inorganic chemicals in Industry 2833 Medicinal Chemicals. Establishments primarily engaged in mining, milling or otherwise preparing natural potassium, boron or sodium compounds (other than common salt) are not classified in manufacturing industries but instead are included in Mining Industry 1474, Potash, Soda and Borate Minerals. For a detailed list of primary products of Industry 2819, refer to Table 6A, product codes 2819111 to 2819798.

In the 1947 Census and subsequent Annual Surveys, data for Industry 2811, Sulfuric Acid, were merged with Industry 2819. Separate data for these two industries are shown for 1954 and selected 1947 statistics have been retabulated for comparability with the 1954 Census.

The 1954 statistics include information for Government-owned plants operated by private firms for the account of the Federal Government but exclude the activities of Government-owned and/or operated plants. The 1947 statistics, however, exclude information for both these groups of plants except for the Tennessee Valley Authority plants. Since the capital expenditures made by these Government-owned-privately operated plants are paid for by current billings to the United States, these amounts are excluded from the statistics shown in Tables 1, 2, and 3, which represent expenditures for privately owned facilities. In addition, establishments classified in this industry were requested in 1954 to report separately the amount and cost of coal, coke and gas used as a fuel and as a raw material. As a result, the fuel statistics appearing in Table 3 are not directly comparable with the data for 1947 since such distinctions were not made in the latter census.

The value of shipments of Industry 2819 in 1954 totaled \$1,859 million. This included shipments of inorganic chemicals, n.e.c. valued at \$1,126 million, shipments of other products (secondary products) valued at \$164 million, and miscellaneous receipts (mainly from the operation of Government-owned plants) of \$569 million.

Receipts for merchandising (products bought and resold without further manufacture or processing) valued at \$36 million are excluded from the \$1,859 million value of shipments of Industry 2819. Data relating to these merchandising receipts are also excluded from the cost of materials and value added by manufacture, but these activities are reflected in other detailed industry statistics, mainly employment and inventory.

Industry 2819 shipments of inorganic chemicals, n.e.c. in 1954 represent 87 percent of its total product shipments (primary and secondary). Secondary products shipped by Industry 2819 consisted mainly of synthetic organic chemicals \$28 million; insecticides and fungicides \$6 million; sulfuric acid, \$22 million; alkalies and chlorine, \$16 million; electrometallurgical products, \$10 million; and chemical specialties, \$14 million.

Industry 2819 shipments of industrial chemicals (primary products) for sale or interplant transfer in 1954 represent 78 percent of these products valued at \$1,439 million by all industries. The coverage ratio varies significantly for the primary product classes of Industry 2819, e.g., synthetic ammonia, nitric acids, except nitric and sulfuric, 83 percent; aluminum compounds, 94 percent; potassium and sodium compounds, 75 percent; reagent and high purity grades, 87 percent; and other inorganic chemicals, n.e.c., 72 percent.

As indicated in the textual material for Chemicals and Allied Products (Major Group 28), a significant amount of inorganic chemicals are produced and frequently also consumed in the same establishment manufacturing organic chemicals or other chemical products. While some measures of the dispersion of inorganic chemical production are provided by the statistics appearing in Table 7B, Consumption of Selected Inorganic Chemicals, Quantities Produced and Consumed, by Industry Classification of Producing Establishments, this point may be further illustrated by the data shown below:

SODIUM SULFATE: PRODUCTION AND NUMBER OF PLANTS,  
BY PROCESSES, 1954(Net Tons of 100% Na<sub>2</sub>SO<sub>4</sub>)<sup>1</sup>

Process	Number of Establishments	Production
Total.....	52	928,129
Mannheim (including Hargreaves)..	13	281,804
Viscose rayon.....	18	250,182
Sodium dichromate.....	7	78,276
Natural.....	4	
Phenol, boric acid, formic acid, lithium sulfate, and other.....	10	317,867

<sup>1</sup> Includes Glauber's salt converted to 100% Na<sub>2</sub>SO<sub>4</sub>.

The production figures appearing in Table 6A, Quantity and Value of Products, represent primary manufacture of the various chemicals in the United States including quantities produced for further processing in the same plant, for intra-company transfer, and for sale to other companies. Thus, when two or more physical forms of a specific chemical are shown in Table 8, the production data include quantities which have been used to prepare other physical forms of the same chemical. In some cases, data are included for materials produced "in process" as an intermediate



to the end product, and, as indicated in the footnotes, include figures for TVA plants and those classified in the Mineral industries. These "non-manufacturing" establishments shipped \$84 million of inorganic chemicals in 1954.

While this industry is also characterized by constant research for new products, new processes, and finding markets for products which have been considered waste products, the material-product relationship for the industry has not generally changed significantly since 1947. The inorganic chemicals industry also provides its own best customers, and the quantities of specific inorganic chemicals consumed by establishments classified in this industry as well as in others are shown in the Table 7 Series. The statistics appearing in Table 7A are limited by the fact that respondents were not requested to furnish data if the amount of the specified chemical purchased totaled less than \$5,000. The consumption information reported for the inorganic and organic chemicals industries (Groups 281 and 282) include materials used in producing other physical modifications of the same chemicals. Data shown in Tables 7B and 7C have been adjusted to exclude quantities so used.

These reporting concepts are identical with those used in compiling monthly and annual production data for specified chemicals which appear in the Census publication Facts for Industry Series M19A, Inorganic Chemicals and Gases. The Census monthly series were initiated in January 1941 and for the years 1941 through 1953 have been summarized in the following publications: Inorganic Chemicals, United States Production: 1931-1946, Facts for Industry Series M19-Supplement; Inorganic Chemicals, Facts for Industry Series M19A-07, M19A-09, M19A-00, M19A-01, M19A-02, and M19A-03. The Census of Manufactures data differ from those appearing in the Facts for Industry Series and the Bureau of Mines Publications because of minor reporting differences and because the monthly series include data from the Tennessee Valley Authority.

In 1939 and earlier Census of Manufactures surveys the classification of the inorganic chemicals, except acids, chlorine and alkalies, was generally based on the acid radical, whereas the classification system employed since then is according to the metallic (basic) element. These different arrangements restrict the comparison of the more recent data with the commodity statistics for 1939 and earlier years.

The general statistics (employment, payrolls, value of shipments, cost of materials, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products, and, for that matter, their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (Tables 1-4) with product statistics (Table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in Table 5A which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry made as secondary products by establishments classified in other industries.

Table 1.—GENERAL STATISTICS FOR THE UNITED STATES: 1954 AND EARLIER YEARS

(For explanation of column captions see Introduction)

Industry and census year	Establishments, number	All employees		Production workers		Value added by manufacture <sup>2</sup> (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments <sup>3</sup> (\$1,000)
		Number <sup>1</sup>	Payroll (\$1,000)	Number <sup>1</sup>	Wages (\$1,000)			
Industrial inorganic chemicals (S.I.C. 281):...								
1954.....	518	121,251	593,575	77,543	346,269	1,386,543	(4)	(4)
1953 <sup>5</sup> .....	(NA)	109,956	523,372	81,759	356,445	1,211,305		
1952 <sup>5</sup> .....	(NA)	104,317	467,974	75,834	316,079	1,048,095		
1951 <sup>5</sup> .....	(NA)	80,743	335,006	62,452	245,078	851,172		
1950 <sup>5</sup> .....	(NA)	69,660	263,858	54,741	191,132	735,317		
1949 <sup>5</sup> .....	(NA)	70,972	246,522	54,972	176,290	594,853		
1947.....	408	62,448	194,784	48,270	141,012	425,184		
1939 <sup>6</sup> .....	340	(NA)	(NA)	33,595	51,515	233,718		
Sulfuric acid (S.I.C. 2811):								
1954.....	47	3,805	16,730	2,927	12,119	66,175	73,094	139,270
1947*.....	43	3,110	9,208	2,549	7,253	31,097	29,471	60,568
1939 <sup>6</sup> .....	39	(NA)	(NA)	3,069	5,005	20,623	16,040	36,663
Alkalies and chlorine (S.I.C. 2812):								
1954 <sup>7</sup> .....	29	20,440	96,047	15,198	67,890	251,033	148,875	399,908
1953 <sup>5</sup> .....	(NA)	21,966	102,604	17,138	76,211	242,536	153,396	395,932
1952 <sup>5</sup> .....	(NA)	22,283	96,942	17,036	69,943	209,718	144,868	354,586
1951 <sup>5</sup> .....	(NA)	21,749	91,306	17,191	66,244	227,565	149,568	377,133
1950 <sup>5</sup> .....	(NA)	17,197	67,225	13,223	49,063	185,144	106,349	291,493
1949 <sup>5</sup> .....	(NA)	18,603	66,176	14,752	49,346	144,775	104,603	249,378
1947.....	32	19,853	63,822	15,017	45,494	113,868	94,692	208,560
1939 <sup>6</sup> .....	33	(NA)	(NA)	10,516	16,356	68,204	33,653	101,857
Inorganic chemicals, n.e.c. (S.I.C. 2819):								
1954 <sup>7</sup> .....	442	97,006	480,798	59,418	266,260	1,069,335	790,037	1,859,372
1947*.....	333	39,485	121,754	30,704	88,265	280,219	282,239	562,458
1939 <sup>6</sup> .....	268	(NA)	(NA)	20,010	30,154	144,891	120,616	265,507

\* Revised

NA Not available.

<sup>1</sup>For the period 1949-1954, figures are based on employment for the payroll periods ended nearest the 15th of March, May, August and November. For 1947, they represent the average of 12 monthly figures. For earlier years, the production worker average was calculated as in 1947, but the figure for all employees represents the sum of the annual average number of production workers and the number of nonproduction workers reported for one payroll period (usually in October).

<sup>2</sup>Value of products less cost of materials, supplies, fuel, electric energy and contract work. See Introduction, "Value Added by Manufacture."

<sup>3</sup>For 1947-1954, value of shipments; for 1939, value of production. See Introduction, "Value of Shipments."

<sup>4</sup>Not shown because these figures contain unknown and varying amounts of duplication and receipts for contract work.

<sup>5</sup>The figures for 1949-1953 represent estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period.

<sup>6</sup>Estimates with a standard error in excess of 15 percent generally have been omitted from this table.

<sup>7</sup>No comparable figures are available for earlier years.

<sup>8</sup>Includes data for Government-owned plants operated by private firms for the account of the Federal Government.



## MANUFACTURES—INDUSTRY STATISTICS

Table 2.—GENERAL STATISTICS BY REGIONS AND STATES: 1954 AND 1947  
(For explanation of column captions see Introduction)

Industry, region, and State <sup>1</sup>	1954									1947			
	Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)		
	Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
Industrial Inorganic Chemicals (S.I.C. 281), total.....	518	309	121,251	593,575	77,543	158,414	346,269	1,386,543	219,272	62,447	425,184		
New England.....	23	9	567	2,435	450	892	1,594	5,293	332	<sup>2</sup> 15,369	<sup>2</sup> 108,229		
Massachusetts.....	12	4	287	1,249	210	441	833	3,106	137	(D)	(D)		
Middle Atlantic.....	119	70	12,823	60,780	9,262	18,844	39,908	151,536	17,698	( <sup>2</sup> )	( <sup>2</sup> )		
New York.....	42	19	6,586	31,977	4,700	9,749	20,913	75,174	11,297	5,959	35,473		
New Jersey.....	46	33	4,404	20,670	3,232	6,512	13,821	53,638	3,851	(D)	(D)		
Pennsylvania.....	31	18	1,830	8,152	1,328	2,580	5,171	22,723	2,548	(D)	(D)		
East North Central.....	110	59	24,696	119,942	17,855	36,878	81,311	270,020	42,811	<sup>3</sup> 21,242	<sup>3</sup> 145,946		
Ohio.....	39	23	11,570	55,516	8,166	17,080	37,734	134,322	15,461	7,820	58,976		
Indiana.....	9	4	1,657	9,225	1,165	2,332	5,852	23,506	3,512	(D)	(D)		
Illinois.....	31	20	4,532	21,601	3,457	6,956	14,880	50,495	11,195	(D)	(D)		
Michigan.....	22	12	6,894	33,458	5,038	10,457	22,756	61,107	12,563	6,546	37,750		
West North Central.....	26	16	2,390	10,679	1,639	3,411	6,997	34,212	13,806	} ( <sup>3</sup> )	( <sup>3</sup> )		
Missouri.....	7	3	412	1,768	325	639	1,309	3,190	(D)				
Kansas.....	10	7	1,442	6,511	939	1,938	4,148	24,082	11,889			(D)	
South Atlantic.....	72	40	25,320	120,730	12,353	25,256	50,422	216,408	21,816	<sup>4</sup> 20,033	<sup>4</sup> 128,930		
Maryland.....	14	10	2,347	9,586	1,741	3,747	6,536	22,026	1,325	717	4,955		
Virginia.....	10	9	4,047	16,259	3,156	6,536	11,765	55,514	7,790	3,653	25,119		
West Virginia.....	9	6	3,374	16,234	2,273	4,906	11,069	40,708	10,735	1,801	15,300		
Georgia.....	14	6	662	1,038	470	574	628	3,862	369	(D)	(D)		
Florida.....	14	4	336	1,275	281	592	985	4,295	300	(D)	(D)		
East South Central.....	29	23	17,548	86,145	11,815	24,490	53,345	222,815	24,027	( <sup>4</sup> )	( <sup>4</sup> )		
Kentucky.....	6	4	2,463	11,996	1,595	3,235	7,179	31,726	2,051	(D)	(D)		
Alabama.....	6	6	1,187	5,184	919	1,920	3,876	28,919	1,031	(D)	(D)		
West South Central.....	54	43	14,627	68,295	10,582	21,833	46,568	198,548	80,723	( <sup>4</sup> )	( <sup>4</sup> )		
Arkansas.....	4	4	3,109	13,993	2,571	5,165	11,165	44,437	11,132	(D)	(D)		
Louisiana.....	17	12	6,420	30,611	4,258	9,040	19,203	80,759	50,720	3,305	19,878		
Oklahoma.....	7	4	93	1,224	154	264	462	1,146	9,916	(D)	(D)		
Texas.....	26	23	4,804	22,466	3,598	7,363	15,736	72,203	8,953	2,072	13,974		
Mountain.....	20	14	8,717	44,988	4,544	9,020	20,637	100,651	6,238	<sup>5</sup> 5,803	<sup>5</sup> 42,079		
Colorado.....	7	3	1,150	5,705	725	1,476	3,402	12,601	48	(D)	(D)		
Utah.....	3	3	281	1,290	196	407	864	5,149	585	(D)	(D)		
Pacific.....	65	35	14,555	79,575	9,034	17,780	45,479	187,054	11,812	( <sup>5</sup> )	( <sup>5</sup> )		
Washington.....	12	6	9,333	53,897	5,201	10,249	27,967	101,188	1,521	(D)	(D)		
Oregon.....	4	3	402	1,821	316	623	1,392	5,865	736	(D)	(D)		
California.....	49	26	4,819	23,855	3,516	6,907	16,117	80,000	9,552	4,486	31,758		
	1954									1947			
	Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
	Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
Sulphuric acids (S.I.C. 2811), total.....	47	42	3,805	16,730	2,927	5,922	12,119	66,175	73,094	139,270	10,803	3,110	31,097
Middle Atlantic.....	6	6	702	3,109	493	1,038	2,076	11,016	8,885	19,901	884	881	8,782
North Central.....	17	13	696	3,387	536	1,124	2,384	13,895	15,290	29,186	3,064	521	6,164
Illinois.....	6	5	322	1,521	245	520	1,043	5,662	6,808	12,471	189	97	553
South.....	16	15	1,648	6,962	1,329	2,637	5,307	29,577	38,070	67,647	4,013	1,107	11,038
West.....	8	8	759	3,272	569	1,123	2,352	11,686	10,849	22,535	2,841	600	5,113
Alkalies and Chlorine (S.I.C. 2812), total.....	29	29	20,440	96,047	15,198	31,393	67,890	251,033	148,875	399,908	34,728	19,853	113,868
Northeast.....	5	5	3,084	13,879	2,474	5,192	10,949	33,960	28,122	62,082	7,400	3,989	21,202
North Central.....	6	6	8,804	41,962	6,460	13,420	29,539	81,900	56,463	138,363	11,700	8,860	47,518
South.....	13	13	6,876	31,765	5,196	10,645	22,437	107,150	47,249	154,399	12,970	5,981	37,146
West.....	5	5	1,675	8,440	1,067	2,135	4,964	28,023	17,041	45,064	2,657	1,023	8,002

See footnotes at end of table.

Table 2.—GENERAL STATISTICS BY REGIONS AND STATES: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Industry, region, and State <sup>1</sup>	1954										1947		
	Establish- ments, number		All employees		Production workers			Value added by manufacture	Cost of materials, etc.	Value of shipments	Capital expendi- tures, new <sup>6</sup>	All employees, number	Value added by manufacture
	Total	20 or more em- ployees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)		(\$1,000)
Inorganic Chemicals n.e.c. (S.I.C. 2819), total.....	442	238	97,006	480,798	59,418	121,099	266,260	1,069,335	790,037	1,859,372	173,741	39,485	280,219
Northeast.....	131	68	9,604	46,227	6,745	13,506	28,477	111,855	136,604	248,459	9,747	10,499	78,245
Massachusetts.....	12	4	281	1,249	210	441	833	3,106	3,503	6,610	137		
North Central.....	113	56	17,587	85,273	12,500	25,747	56,387	208,437	173,293	381,730	41,854	11,861	92,264
Ohio.....	33	17	7,117	35,286	4,781	10,009	22,439	88,523	55,224	143,748	9,210		
Illinois.....	25	15	4,210	20,080	3,212	6,436	13,837	44,833	57,898	102,732	11,006		
Missouri.....	7	3	412	1,768	325	639	1,309	3,190	12,953	16,144	(D)		
South Atlantic.....	62	30	20,839	101,088	8,791	18,004	36,201	161,328	82,121	243,450	11,301	12,945	80,746
Georgia.....	14	6	662	1,038	470	574	628	3,862	6,211	10,073	369		
Florida.....	14	4	336	1,275	281	592	985	4,295	5,786	10,082	300		
East South Central.....	22	17	16,743	82,661	11,207	23,251	50,769	209,868	182,284	392,157	21,310	4,180	28,964
Tennessee.....	11	9	12,921	64,672	8,555	17,792	39,264	150,030	76,617	226,648	(D)		
West South Central.....	42	31	11,391	52,696	8,229	17,044	35,623	129,848	135,182	265,030	76,974		
Louisiana.....	13	8	5,048	24,136	3,225	6,920	14,422	48,965	52,203	101,168	(D)		
Texas.....	20	17	3,095	13,884	2,383	4,910	9,914	37,327	41,463	78,791	6,312		
Mountain.....	16	10	8,193	42,728	4,169	8,271	19,103	94,040	18,690	112,730	5,496	4,180	28,964
Pacific.....	56	26	12,646	70,124	7,774	15,272	39,688	153,957	61,856	215,814	7,056		

Note: Detailed figures may not add to the totals because of independent rounding.

<sup>D</sup> Withheld to avoid disclosing figures for individual companies.<sup>1</sup> General statistics for some producing States are not shown separately in the table (See INTRODUCTION "Confidentiality of Data for Individual Companies"). Such States are shown below with the number of establishments in each State for 1954 and, in parentheses, the number of employees or the employment-size range for that State for 1954:

S.I.C. 281, Industrial Inorganic Chemicals: New England—New Hampshire, 2 (100-249); Rhode Island, 6 (100-249); Connecticut, 3 (20-99); East North Central—Wisconsin, 9 (20-99); West North Central—Minnesota, 4 (250-499); Iowa, 4 (250-499); South Dakota, 1 (1-19); South Atlantic—Delaware, 2 (500-999); District of Columbia, 1 (1-19); North Carolina, 5 (20-99); South Carolina, 3 (Over 10,000); East South Central—Tennessee, 13 (Over 10,000); Mississippi, 4 (250-499); Mountain—Montana, 2 (250-499); Idaho, 3 (500-999); New Mexico, 2 (5,000-9,999); Arizona, 1 (1-19); Nevada, 2 (500-999).

S.I.C. 2811, Sulphuric Acid: Middle Atlantic—New York, 1 (100-249); New Jersey, 2 (100-249); Pennsylvania, 3 (250-499); North Central—Ohio, 4 (100-249); Indiana, 2 (20-99); Michigan, 3 (20-99); Iowa, 1 (20-99); Kansas, 1 (1-19); South—Maryland, 1 (500-999); Virginia, 3 (100-249); West Virginia, 1 (20-99); Kentucky, 1 (1-19); Tennessee, 1 (250-499); Alabama, 2 (20-99); Louisiana, 2 (100-249); Oklahoma, 1 (20-99); Texas, 4 (250-499); West—Montana, 1 (100-249); Colorado, 1 (20-99); Utah, 1 (20-99); California, 5 (500-999).

S.I.C. 2812, Alkalies and Chlorine: Northeast—New Hampshire, 1 (100-249); Rhode Island, 1 (20-99); New York, 3 (2,500-4,999); North Central—Ohio, 2 (2,500-4,999); Michigan, 3 (4,412); Kansas, 1 (100-249); South—Maryland, 1 (20-99); Virginia, 1 (1,000-2,499); West Virginia, 3 (2,314); Tennessee, 1 (100-249); Alabama, 2 (100-249); Arkansas, 1 (20-99); Louisiana, 2 (1,000-2,499); Texas, 2 (1,000-2,499); West—Nevada, 1 (250-499); Washington, 2 (250-499); Oregon, 1 (100-249); California, 1 (500-999).

S.I.C. 2819, Inorganic Chemicals, N.E.C.: Northeast—New Hampshire, 1 (1-19); Rhode Island, 5 (20-99); Connecticut, 3 (20-99); New York, 38 (3,495); New Jersey, 44 (2,500-4,999); Pennsylvania, 28 (1,522); North Central—Indiana, 7 (1,000-2,499); Michigan, 16 (2,387); Wisconsin, 9 (20-99); Minnesota, 4 (250-499); Iowa, 3 (100-249); South Dakota, 1 (1-19); Kansas, 8 (1,000-2,499); South Atlantic—Delaware, 2 (500-999); Maryland, 12 (1,000-2,499); District of Columbia, 1 (1-19); Virginia, 6 (2,537); West Virginia, 5 (1,000-2,499); North Carolina, 5 (20-99); South Carolina, 3 (10,000 and over); East South Central—Kentucky, 5 (1,000-2,499); Alabama, 2 (500-999); Mississippi, 4 (250-499); West South Central—Arkansas, 3 (2,500-4,999); Oklahoma, 6 (100-249); Mountain—Montana, 1 (250-499); Idaho, 3 (500-999); Colorado, 6 (1,000-2,499); New Mexico, 2 (5,000-9,999); Arizona, 1 (1-19); Utah, 2 (100-249); Nevada, 1 (250-499); Pacific—Washington, 10 (5,000-9,999); Oregon, 3 (100-249); California, 43 (3,531).

<sup>2</sup> New England and Middle Atlantic combined.<sup>3</sup> East and West North Central combined.<sup>4</sup> South Atlantic, East and West South Central combined.<sup>5</sup> Mountain and Pacific combined.<sup>6</sup> Represents expenditures for only privately owned facilities.

## MANUFACTURES—INDUSTRY STATISTICS

Table 3.—DETAILED STATISTICS FOR THE UNITED STATES: 1954

(For explanation of line captions see Introduction)

Item	Sulfuric acid (S.I.C. 2811)		Alkalies and Chlorine (S.I.C. 2812)		Inorganic chemicals (S.I.C. 2819)	
	All establishments	Establishments with 90% or more primary product specialization	All establishments	Establishments with 90% or more primary product specialization	All establishments	Establishments with 90% or more primary product specialization
Primary product specialization ratio <sup>1</sup> .....	78	xxx	76	xxx	87	xxx
Coverage ratio <sup>2</sup> .....	66	xxx	84	xxx	78	xxx
Number of establishments, total.....	47	31	29	12	442	331
With 1-19 employees.....	5	5	...	...	204	174
With 20-99 employees.....	28	22	4	3	119	90
With 100 employees and over.....	14	4	25	9	119	67
All employees:						
Number (average for year).....	3,805	1,380	20,440	4,106	97,006	29,637
Payroll.....\$1,000..	16,730	6,186	96,047	19,320	480,798	133,313
Production workers:						
Number (average for year).....	2,927	1,018	15,198	3,062	59,418	22,615
Man-hours.....\$1,000..	5,922	2,023	31,393	6,363	121,099	45,950
Wages.....\$1,000..	12,119	4,290	67,890	14,048	266,260	94,343
Value added by manufacture.....do...	66,175	29,444	251,033	60,573	1,069,335	384,859
Cost of materials, etc.....do...	73,094	30,196	148,875	33,827	790,037	424,871
Value of shipments.....do...	139,270	59,641	399,908	94,400	1,859,372	809,730
Value added by resales.....do...	1,554	609	3,171	73	7,054	2,995
Cost of products bought and resold.....do...	5,667	1,808	10,479	968	29,427	13,239
Sales of products bought and resold.....do...	7,221	2,417	13,650	1,041	36,481	16,235
Total inventories, beginning of year.....do...	16,073	4,902	46,691	8,519	177,354	113,226
Total inventories, end of year.....do...	15,295	4,727	47,280	7,800	186,847	120,930
Capital expenditures, new.....do...	10,803	3,606	34,728	10,616	173,741	101,340
Number of employees for selected months:						
March.....	3,794	1,369	20,493	4,068	96,653	28,985
May.....	3,799	1,409	20,340	4,051	96,922	29,361
August.....	3,886	1,400	20,652	4,181	98,067	30,049
November.....	3,741	1,341	20,274	4,124	96,383	30,154
Cost of materials, fuel, electricity and contract work, total.....\$1,000..	73,094	30,196	148,875	33,827	790,037	424,871
Materials, parts, containers, and supplies consumed.....do...	70,090	28,826	99,121	22,345	524,190	326,871
Fuels consumed, total.....do...	706	209	30,710	5,828	107,258	69,007
Bituminous coal and anthracite:						
Quantity.....1,000 short tons..	32	(NA)	3,198	(NA)	4,379	(NA)
Value.....\$1,000..	288	(NA)	21,256	(NA)	28,706	(NA)
Coke:						
Quantity.....1,000 short tons..	( <sup>3</sup> )	(NA)	( <sup>3</sup> )	(NA)	( <sup>3</sup> )	(NA)
Value.....\$1,000..	8	(NA)	( <sup>4</sup> )	(NA)	( <sup>4</sup> )	(NA)
Fuel oil:						
Quantity.....1,000 barrels..	30	(NA)	853	(NA)	2,444	(NA)
Value.....\$1,000..	112	(NA)	2,280	(NA)	7,053	(NA)
Gas:						
Quantity.....million cubic feet..	995	(NA)	44,762	(NA)	175,935	(NA)
Value.....\$1,000..	217	(NA)	6,969	(NA)	70,162	(NA)
Other fuels:						
Value.....do...	81	(NA)	205	(NA)	1,335	(NA)
Electric energy:						
Purchased:						
Quantity.....million kwh..	247	99	3,273	901	30,792	5,509
Cost.....\$1,000..	2,067	941	18,112	5,147	156,122	27,288
Generated.....million kwh..	34	24	3,227	914	4,846	944
Sold:						
Quantity.....do...	...	...	92	8	710	95
Value.....\$1,000..	...	...	732	81	8,523	454
Cost of contract work.....do...	231	220	932	507	2,467	1,705
Manufacturers' inventories:						
Beginning of year, total.....do...	16,073	4,902	46,691	8,519	177,354	113,226
Finished products.....do...	6,216	1,318	15,892	2,903	51,974	26,249
Work-in-process.....do...	( <sup>3</sup> )	( <sup>3</sup> )	2,446	( <sup>3</sup> )	23,850	18,840
Materials, supplies, fuel, etc.....do...	9,660	3,531	28,353	5,420	101,530	68,137
End of year, total.....do...	15,295	4,727	47,280	7,800	186,847	120,930
Finished products.....do...	6,468	1,357	17,911	2,537	57,753	30,685
Work-in-process.....do...	( <sup>3</sup> )	( <sup>3</sup> )	2,505	( <sup>3</sup> )	25,896	19,624
Materials, supplies, fuel, etc.....do...	8,449	3,281	26,864	5,051	103,198	70,622
Expenditures for plant and equipment, total.....do...	10,834	3,606	36,462	10,814	178,446	105,843
Capital expenditures, new.....do...	10,803	3,606	34,728	10,616	173,741	101,340
New structures and additions to plant.....do...	2,392	( <sup>3</sup> )	7,521	2,104	35,771	24,579
New machinery and equipment.....do...	8,411	3,244	27,207	8,512	137,970	76,761
Expenditures for used plant and equipment.....do...	( <sup>3</sup> )	( <sup>3</sup> )	1,734	( <sup>3</sup> )	4,705	4,503
Horsepower rating of power equipment at end of 1954:						
Horsepower of prime movers and electric motors driven by purchased energy, total.....1,000 hp..	136	70	988	363	5,240	1,146
Engines, etc., driving electric generators.....do...	12	8	646	198	1,112	299
Engines, etc., not driving electric generators.....do...	21	11	210	134	1,134	308
Electric motors driven by purchased energy.....do...	103	51	132	32	2,994	539
Electric motors driven by energy generated at the establishment.....do...	12	7	300	68	828	335

Note: Detailed figures may not add to the totals because of independent rounding. xxx Not applicable. NA Not available. <sup>1</sup>The specialization ratio compares the given industry's shipments of its primary products to its total shipments of all products. (The primary products are listed in Tables 5B and 6A; first 4-digits of the product code represent the industry code to which the product is primary. While the statistics for "All establishments" include information for Government-owned privately operated plants, the data for establishments with 90% or more specialization exclude such figures. For further detail, particularly for Industry 2819, see Text.) <sup>2</sup>The coverage ratio measures the extent to which the total shipments of products primary to the given industry are shipped by establishments classified in that industry. <sup>3</sup>Less than 500 tons. <sup>4</sup>Less than \$5 thousand. <sup>5</sup>Less than \$500 thousand.

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Table 4.—SELECTED STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR THE UNITED STATES: 1954

(Value figures in thousands of dollars. For explanation of line captions see Introduction. Data which cannot be shown without disclosing information for individual companies have been combined with figures for other size classes. A (D) appears in the column where the figure has been omitted and the combined figure is underlined and shown in the size-class to the left)

Ind. code	Industry and item	Total, all establishments	Establishments with an average of—									
			1-4 employees	5-9 employees	10-19 employees	20-49 employees	50-99 employees	100-249 employees	250-499 employees	500-999 employees	1,000-2,499 employees	2,500 employees and over
2811	Sulfuric acid:											
	Number of establishments..	47	...	1	4	21	7	12	1	1	...	...
	Number of employees.....	3,805	...	70	(D)	624	438	2,671	(D)	(D)	...	...
	Value added by manufacture	66,175	...	<u>1,660</u>	(D)	14,832	6,806	<u>42,875</u>	(D)	(D)	...	...
2812	Alkalies and chlorine:											
	Number of establishments..	29	...	...	...	...	4	9	4	5	5	2
	Number of employees.....	20,440	...	...	...	...	1,681	(D)	1,471	3,720	<u>13,567</u>	(D)
	Value added by manufacture	251,033	...	...	...	...	<u>22,302</u>	(D)	34,723	60,354	<u>133,653</u>	(D)
2819	Inorganic chemicals, n.e.c.:											
	Number of establishments..	442	104	41	59	78	41	54	28	18	14	5
	Number of employees.....	97,006	279	291	880	2,425	2,856	8,847	10,187	12,971	19,651	38,616
	Value added by manufacture	1,069,335	2,889	3,282	10,101	34,385	38,321	105,699	127,593	204,191	193,860	349,011

Note: Detailed figures may not add to the totals because of independent rounding.

Table 5A.—INDUSTRY-PRODUCT ANALYSIS—SUMMARY OF INDUSTRY AND PRIMARY PRODUCT SHIPMENTS, SPECIALIZATION RATIOS AND COVERAGE RATIOS FOR THE UNITED STATES: 1954 AND 1947

Industry code	Industry and census year	Value of shipments					Value of primary products shipped			
		Total	Primary products	Secondary products	Miscel- laneous receipts	Primary product speciali- zation ratio <sup>1</sup>  Col. B Col. B+C (Percent)	Total (made in all industries)	Made in this industry	Made in other industries	Coverage ratio <sup>2</sup>  Col. G Col. F (Percent)
(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(E)	(\$1,000)	(\$1,000)	(\$1,000)	(I)		
(A)	(B)	(C)	(D)		(F)	(G)	(H)			
2811	Sulfuric acid <sup>1</sup> .....1954..	139,270	106,942	30,855	1,473	78	161,248	106,942	54,306	66
	.....1947..	60,568	(NA)	(NA)	(NA)	(NA)	89,129	(NA)	(NA)	(NA)
2812	Alkalies and chlorine.....1954..	399,908	304,485	94,231	1,192	76	362,712	304,485	58,227	84
	.....1947..	208,560	163,412	39,315	5,833	81	193,248	163,412	29,840	85
2819	Inorganic chemicals, n.e.c. <sup>1</sup> .....1954..	1,859,372	1,126,089	163,947	569,336	87	1,438,611	1,126,089	312,522	78
	.....1947..	562,426	(NA)	(NA)	(NA)	(NA)	609,729	(NA)	(NA)	(NA)

NA Not available.

<sup>1</sup>The specialization ratio compares the given industry's shipments of its primary products to its total shipments of all products. (The primary products are listed in Tables 5B and 6A; the first 4-digits of the product code represent the industry code to which the product is primary.)

<sup>2</sup>The coverage ratio measures the extent to which the total shipments of products primary to the given industry are shipped by establishments classified in that industry.



## MANUFACTURES—INDUSTRY STATISTICS

Table 5B.—INDUSTRY-PRODUCT ANALYSIS—SHIPMENTS BY PRODUCT CLASS AND INDUSTRY, FOR THE UNITED STATES: 1954

(In thousands of dollars. The first column shows the total value of shipments of the specified industry divided among: (a) products classified in the industry (primary products), (b) products classified in other industries (secondary products) and (c) miscellaneous receipts. The value of shipments of the primary products of the specified industry reported by establishments not classified in that industry is shown under the caption "Other industries." Industries accounting for significant amounts of the primary products listed are shown in separate columns provided that the figures for individual companies are not thereby disclosed. The last column shows the total value of shipments of the primary products of the industry by all manufacturing industries)

Prod. class code	Sulfuric acid industry	Sulfuric acid (S.I.C. 2811)	Inorganic chemicals, n.e.c. (S.I.C. 2819)	Other industries	All industries		
	Total shipments and receipts of the industry.....	139,270	xxx	xxx	xxx		
28110	Sulfuric acid.....	106,942	22,182	132,124	161,248		
	Secondary products.....	30,855	xxx	xxx	xxx		
2819-	Inorganic chemicals, n.e.c.....	20,745	xxx	xxx	xxx		
	Other secondary products.....	10,110	xxx	xxx	xxx		
	Miscellaneous receipts.....	1,473	xxx	xxx	xxx		
Prod. class code	Alkalies and chlorine industry	Alkalies and chlorine (S.I.C. 2812)	Organic chemicals, n.e.c. (S.I.C. 2829)	Other industries	All industries		
	Total shipments and receipts of the industry.....	399,908	xxx	xxx	xxx		
	Primary products.....	304,485	27,078	31,149	362,712		
28121	Chlorine.....	72,737	6,129	28,329	87,195		
28122	Sodium carbonate (soda ash).....	102,143	...	6,977	109,120		
28123	Sodium hydroxide (caustic soda).....	112,192	20,949	315,678	148,819		
28124	Other alkalies.....	17,413	...	165	17,578		
	Secondary products.....	94,231	xxx	xxx	xxx		
28191	Synthetic ammonia, nitric acid, ammonium compounds....	4,814	xxx	xxx	xxx		
28193	Inorganic acids, except nitric and sulfuric.....	3,099	xxx	xxx	xxx		
28197	Other inorganic chemicals.....	12,394	xxx	xxx	xxx		
28221	Cyclic (coal tar) intermediates.....	4,278	xxx	xxx	xxx		
28293	Miscellaneous acyclic chemicals.....	25,148	xxx	xxx	xxx		
28295	Pesticides and other organic agricultural chemicals....	4,215	xxx	xxx	xxx		
2899-	Chemical products, n.e.c.....	4,247	xxx	xxx	xxx		
	Other secondary products.....	436,036	xxx	xxx	xxx		
	Miscellaneous receipts.....	1,192	xxx	xxx	xxx		
Prod. class code	Inorganic chemicals, n.e.c., industry	Inorganic chemicals, n.e.c. (S.I.C. 2819)	Alkalies and chlorine (S.I.C. 2812)	Inter-mediate and organic colors (S.I.C. 2822)	Organic chemicals, n.e.c. (S.I.C. 2829)	Other industries	All industries
	Total shipments and receipts of the industry.....	1,859,372	xxx	xxx	xxx	xxx	xxx
	Primary products.....	1,126,089	25,337	40,559	57,849	5188,777	1,438,611
28191	Synthetic ammonia, nitric acid, ammonium compounds....	248,159	4,814	5,571	19,737	18,587	296,868
28192	Chlorine and other bleaching compounds.....	74,235	(D)	...	(D)	67,120	83,787
28193	Inorganic acids, except nitric and sulfuric.....	36,096	3,099	15,084	13,773	10,799	78,851
28194	Aluminum compounds.....	221,933	...	(D)	(D)	6,478	234,828
28195	Other potassium and sodium compounds.....	206,756	(D)	(D)	11,700	745,774	275,814
28196	Inorganic chemicals, reagent and high purity grades....	10,244	...	...	...	1,494	11,738
28197	Other inorganic chemicals.....	328,666	12,394	9,871	7,269	898,525	456,725
	Secondary products.....	163,947	xxx	xxx	xxx	xxx	xxx
28110	Sulfuric acid.....	22,182	xxx	xxx	xxx	xxx	xxx
28121	Chlorine.....	6,910	xxx	xxx	xxx	xxx	xxx
28123	Sodium hydroxide (caustic soda).....	8,844	xxx	xxx	xxx	xxx	xxx
28293	Miscellaneous acyclic chemicals.....	23,376	xxx	xxx	xxx	xxx	xxx
28295	Pesticides, and other organic agricultural chemicals....	4,938	xxx	xxx	xxx	xxx	xxx
28422	Synthetic organic detergents, bulk.....	3,616	xxx	xxx	xxx	xxx	xxx
28423	Specialty detergents.....	3,428	xxx	xxx	xxx	xxx	xxx
28425	Alkaline detergents.....	4,684	xxx	xxx	xxx	xxx	xxx
2852-	Inorganic color pigments.....	2,544	xxx	xxx	xxx	xxx	xxx
28711	Mixed fertilizers, complete and incomplete.....	3,172	xxx	xxx	xxx	xxx	xxx
28970	Insecticides and fungicides for agricultural use.....	6,263	xxx	xxx	xxx	xxx	xxx
28993	Chemical specialties.....	14,249	xxx	xxx	xxx	xxx	xxx
33130	Electrometallurgical products.....	10,390	xxx	xxx	xxx	xxx	xxx
	Other secondary products.....	49,351	xxx	xxx	xxx	xxx	xxx
	Miscellaneous receipts.....	569,336	xxx	xxx	xxx	xxx	xxx

xxx Not applicable.

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>Includes \$5,252 thousand shipped by Industry 2829, Organic Chemicals, N.E.C.; \$7,411 thousand by Industry 2871, Fertilizers; and \$8,161 thousand by Industry 3333, Primary zinc.

<sup>2</sup>Includes \$6,910 thousand shipped by establishments classified in Industry 2819, Inorganic Chemicals, N.E.C.

<sup>3</sup>Includes \$8,844 thousand shipped by establishments classified in Industry 2819, Inorganic Chemicals, N.E.C.

<sup>4</sup>Of this figure, 73 percent consists of the following product classes: 28192, Chlorine and other bleaching compounds; 28195, Other potassium and sodium compounds; 28235, Synthetic resins, except protective coatings; 28421, Synthetic organic detergents, packaged; 28425, Alkaline detergents; 28963, Carbon dioxide; and 32952, Minerals and earths, ground or otherwise treated.

<sup>5</sup>Includes \$16,745 thousand shipped by establishments classified in Industry 2911, Petroleum Refining.

<sup>6</sup>Includes \$1,051 thousand shipped by establishments classified in Industry 2842, Cleaning and Polishing Products.

<sup>7</sup>Includes \$1,921 thousand shipped by establishments classified in Industry 2833, Medicinal Chemicals, Including Botanicals.

<sup>8</sup>Includes shipments (in thousands of dollars) by the following industries: \$8,145 shipped by Industry 2833, Medicinal Chemicals, Including Botanicals; \$22,006 by Industry 2852, Inorganic Color Pigments; \$8,549 by Industry 3331, Primary Copper; \$5,610 by Industry 3339, Primary Nonferrous Metals, N.E.C.; and \$9,859 by Industry 3341, Secondary Nonferrous Metals.

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Table 6A.--QUANTITY AND VALUE OF PRODUCTS SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, FOR THE UNITED STATES: 1954 AND 1947

Product code	Product	1954						1947					
		Production for all purposes (quantity)	Total shipments including interplant transfers		Commercial shipments		Production for all purposes (quantity)	Total shipments including interplant transfers		Commercial shipments			
			Quantity	Value	Quantity	Value		Quantity	Value				
										(Short tons)	(Short tons)	(Short tons)	(Short tons)
		(Short tons)	(Short tons)	(\$1,000)	(Short tons)	(\$1,000)	(Short tons)	(Short tons)	(\$1,000)	(Short tons)	(\$1,000)		
2811---	Sulfuric acid (100% H <sub>2</sub> SO <sub>4</sub> ), gross <sup>1</sup> (new and fortified), total.....	<sup>2</sup> 14,376,381	8,315,750	161,248	7,541,301	144,619	<sup>2</sup> 10,780,166	6,824,756	89,129	6,306,428	82,622		
2811071	Chamber process.....	2,511,727	1,173,799	22,330	983,965	18,424	3,274,753	1,662,961	21,380	1,383,257	18,107		
	Contact process (gross) <sup>1</sup> .....	<sup>3</sup> 11,864,654	7,141,951	138,918	6,557,336	126,195	<sup>3</sup> 7,505,413	5,161,795	67,749	4,923,171	64,515		
2811011	Oleum under 40% <sup>1</sup> .....	1,190,885	773,697	16,538	(D)	(D)	} 245,950	407,840	5,926	407,112	5,917		
2811015	Oleum 40% <sup>1</sup> .....	345,209	80,817	2,048	80,817	2,048		127,004	1,542	126,850	1,536		
2811017	Oleum above 40% <sup>1</sup> .....	51,387	22,521	687	(D)	(D)		60,281	4,389,209	57,062			
2811031	Other than oleum <sup>1</sup> .....	10,277,173	6,264,916	119,645	5,693,153	107,190		6,630,764	4,626,951	60,281	4,389,209	57,062	
2811X51	Spent acid used in fortification on contact units and included in above figures <sup>1</sup> .....	819,890	xxx	xxx	xxx	xxx	676,773	xxx	xxx	xxx	xxx		
2812---	Alkalies and chlorine, total.....	xxx	xxx	362,712	xxx	xxx	xxx	xxx	193,248	xxx	xxx		
28121	Chlorine.....	xxx	xxx	87,195	xxx	xxx	xxx	xxx	31,204	xxx	xxx		
2812111	Gas.....	<sup>4</sup> 2,903,723	202,581	10,543	(D)	(D)	<sup>4</sup> 1,443,219	294,042	10,492	286,993	9,807		
2812115	Liquid.....	1,584,796	1,359,768	76,652	1,257,418	71,438	644,007	487,803	20,712	442,129	18,513		
28122	Sodium carbonate (soda ash) (58% Na <sub>2</sub> O) <sup>2</sup> .....	xxx	xxx	109,120	xxx	xxx	xxx	xxx	62,950	xxx	xxx		
	Ammonia soda process: Total crude bicarbonate.....	<sup>6</sup> 4,701,364	xxx	xxx	xxx	xxx	<sup>6</sup> 4,524,668	xxx	xxx	xxx	xxx		
2812231	Finished bicarbonate.....	112,086	108,589	5,892	108,589	5,892	124,611	122,393	5,356	106,624	4,599		
2812241	Finished dense ash.....	1,681,665	1,643,282	46,399	(D)	(D)	1,629,406	1,611,449	29,235	1,495,700	27,170		
2812245	Finished light ash.....	<sup>7</sup> 2,556,672	1,978,453	56,829	1,807,133	52,115	<sup>7</sup> 2,206,590	1,525,581	28,359	1,399,989	26,291		
28123	Sodium hydroxide (caustic soda) (100% NaOH).....	xxx	xxx	148,819	xxx	xxx	xxx	xxx	82,644	xxx	xxx		
	Electrolytic: Total liquid.....	<sup>8</sup> 2,931,076	xxx	xxx	xxx	xxx	<sup>8</sup> 1,353,429	xxx	xxx	xxx	xxx		
2812361	68-74% liquid.....	536,652	470,875	23,031	470,875	23,031	} 1,106,375	907,943	35,058	793,591	30,583		
2812365	All other liquid.....	2,051,011	1,533,344	76,127	1,500,309	74,401		201,521	13,828	193,716	13,452		
2812367	Dry (all forms).....	343,413	276,603	21,190	272,672	20,870							
2812X71	Lime soda: Total liquid.....	<sup>8</sup> 478,678	xxx	xxx	xxx	xxx	<sup>8</sup> 749,721	xxx	xxx	xxx	xxx		
2812371	68-74% liquid.....	34,137	34,766	1,713	34,766	1,713	} 503,418	503,324	20,714	500,825	20,612		
2812375	All other liquid.....	268,166	268,222	14,327	268,222	14,327		214,816	13,044	147,731	9,443		
2812377	Dry (all forms).....	176,375	163,153	12,431	163,153	12,431							
28124	Other alkalies.....	xxx	xxx	17,578	xxx	xxx	xxx	xxx	16,450	xxx	xxx		
	Potassium carbonate: Liquid.....	} (D)	(D)	( <sup>9</sup> )	(D)	(D)	(D)	(D)	( <sup>9</sup> )	xxx	xxx		
2812411	Calcined.....												
2812415	Hydrated.....												
	Potassium hydroxide (caustic potash) (88-92% KOH): Liquid.....	<sup>8</sup> 75,291	39,492	5,385	(D)	(D)	} 60,069	50,891	6,834	50,891	6,834		
2812423	Solid.....	16,918	17,197	3,171	17,197	3,171							
2812459	Other carbonates <sup>10</sup> .....	xxx	xxx	} <sup>9</sup> 9,022	xxx	xxx	xxx	xxx	<sup>9</sup> 3,924	xxx	xxx		
2812481	Modified sodas <sup>11</sup> .....	(D)	(D)		xxx	xxx	114,831	95,778	4,391	xxx	xxx		
2812400	Other alkalies, not specified by kind.....	xxx	xxx		...	xxx	...	xxx	xxx	<sup>12</sup> 1,301	xxx	(NA)	
2819---	Inorganic chemicals, n.e.c., total...	xxx	xxx	<sup>13</sup> 1,438,611	xxx	xxx	xxx	xxx	609,729	xxx	xxx		
28191	Synthetic ammonia, nitric acid, and ammonium compounds.....	xxx	xxx	<sup>14</sup> 296,868	xxx	xxx	xxx	xxx	95,414	xxx	xxx		
2819111	Nitric (100% HNO <sub>3</sub> ) <sup>1</sup> .....	2,289,297	136,104	10,074	115,865	8,591	1,189,411	71,743	4,736	34,396	2,389		
	Ammonia (100% NH <sub>3</sub> ): Anhydrous.....	2,736,478	1,284,894	114,836	1,158,473	104,833	1,114,000	373,729	22,719	346,132	21,129		
2819131	Aqua.....	53,943	44,714	3,876	(D)	(D)	20,558	20,194	1,234	19,323	1,187		

See footnotes at end of table.

Table 6A.--QUANTITY AND VALUE OF PRODUCTS SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, FOR THE UNITED STATES: 1954 AND 1947--Continued

Product code	Product	1954											
		Production for all purposes (quantity)	Total shipments including interplant transfers		Commercial shipments		Production for all purposes (quantity)	Total shipments including interplant transfers		Commercial shipments			
			Quantity	Value	Quantity	Value		Quantity	Value	Quantity	Value		
		(Short tons)	(Short tons)	(\$1,000)	(Short tons)	(\$1,000)	(Short tons)	(Short tons)	(\$1,000)	(Short tons)	(\$1,000)	(Short tons)	(\$1,000)
2819---	Inorganic chemicals, n.e.c.--Continued												
28191	Synthetic ammonia, nitric acid, and ammonium compounds--Continued												
	Ammonium compounds:												
	Chloride (100% NH <sub>4</sub> Cl):												
2819141	Gray.....	28,443	28,979	3,661	(D)	(D)	35,409	35,589	3,741	35,458	3,727		
2819143	White.....												
	Nitrate (100% NH <sub>4</sub> NO <sub>3</sub> ):												
	Fertilizer grade:												
2819151	Original solution.....	151,655,228	154,581	10,999	154,581	10,999	928,161	849,942	45,179	(D)	(D)		
2819152	Solid.....	863,640	835,967	46,324	835,967	46,324							
2819153	Other grades <sup>1</sup> .....	230,235	104,469	6,962	(D)	(D)	158,708	62,583	3,489	43,206	2,287		
2819155	Ammoniating solutions (100% N) (including urea ammoniating solution).....	444,705	452,695	56,571	452,695	56,571	(NA)	(NA)	(NA)	(NA)	(NA)		
2819157	Sulfate (other than byproduct coke oven) (100% (NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub> )....	943,825	801,765	36,017	747,945	33,381	195,848	186,917	9,069	(D)	(D)		
2819159	Other ammonium compounds.....	xxx	xxx	9,324	xxx	(NA)	xxx	xxx	5,247	xxx	(NA)		
28192	Chlorine bleaching compounds.....	xxx	xxx	83,787	xxx	xxx	xxx	xxx	37,276	xxx	xxx		
2819211	Calcium hypochlorite (high test) (70% avail. Cl <sub>2</sub> ).....	12,312	9,939	4,991	9,003	4,991	7,658	6,678	2,488	6,434	2,421		
2819221	Bleaching powder (chloride of lime) (35-37% avail. Cl <sub>2</sub> ).....												
2819231	Liquid lime bleaches (35-37% avail. Cl <sub>2</sub> ).....	34,460	21,574	1,237	(D)	(D)	27,426	25,533	1,316	24,959	1,272		
2819241	Sodium hypochlorite and other sodium bleach compounds.....	xxx	xxx	69,794	xxx	xxx	163,711	156,419	16,743	xxx	xxx		
2819251	Other chlorine bleaching compounds.....	xxx	xxx	7,765	xxx	(NA)	xxx	xxx	16,729	xxx	(NA)		
28193	Inorganic acids, except nitric and sulfuric.....	xxx	xxx	78,851	xxx	xxx	xxx	xxx	30,071	xxx	xxx		
2819311	Boric (boracic) (100% H <sub>3</sub> BO <sub>3</sub> ).....	1662,803	(D)	( <sup>17</sup> )	(D)	(D)	41,494	36,449	3,306	34,866	3,240		
2819321	Chlorosulfonic (SO <sub>2</sub> ClOH).....	(D)	(D)	( <sup>17</sup> )	(D)	(D)	(NA)	(NA)	( <sup>18</sup> )	(NA)	(NA)		
2819331	Chromic acid (100% CrO <sub>3</sub> ).....	13,191	12,994	7,255	12,994	7,255	(D)	(D)	( <sup>19</sup> )	(D)	(D)		
28193	Hydrochloric (including anhydrous) (100% HCl):												
2819341	From salt.....	150,385	68,129	5,037	(D)	(D)	173,541	109,631	6,117	106,534	5,845		
2819345	From chlorine.....	157,815	44,741	3,803	(D)	(D)	87,112	6,358	272	6,358	272		
2819347	Byproduct and other.....	455,272	247,978	13,323	(D)	(D)	181,905	90,716	2,973	87,667	2,901		
2819351	Hydrocyanic (including anhydrous) (100% HCN).....	(D)	(D)	( <sup>17</sup> )	(D)	(D)	5,083	1,072	1,053	1,072	1,053		
	Hydrofluoric (100% H <sub>2</sub> F <sub>2</sub> ):												
2819361	Anhydrous.....	54,968	26,835	10,594	(D)	(D)	27,933	13,624	4,186	7,880	2,525		
2819365	Technical.....												
2819367	Mixed (sulfuric and nitric) <sup>1</sup> .....	403,973	110,500	7,595	(D)	(D)	243,960	89,843	3,818	63,992	2,633		
2819371	Perchloric.....	(D)	(D)	( <sup>17</sup> )	(D)	(D)	(NA)	(NA)	( <sup>18</sup> )	(NA)	(NA)		
	Phosphoric acid (50% H <sub>3</sub> PO <sub>4</sub> ):												
2819381	From phosphorus (50% H <sub>3</sub> PO <sub>4</sub> )....	1,399,155	317,647	19,962	316,398	20,837	529,848	84,690	5,257	61,464	3,870		
2819385	From phosphate rock (50% H <sub>3</sub> PO <sub>4</sub> )....	1,742,828	45,675	2,245			483,123	13,450	509	(D)	(D)		
2819398	Other inorganic acids, n.e.c.....	xxx	xxx	9,037	xxx	(NA)	xxx	xxx	182,580	xxx	(NA)		
28194	Aluminum compounds.....	xxx	xxx	234,828	xxx	xxx	xxx	xxx	76,578	xxx	xxx		
	Chloride:												
2819411	Liquid (32%Be').....	11,337	10,725	774	10,725	774	13,219	11,249	443	11,130	438		
2819415	Crystal (32%Be').....												
2819417	Anhydrous (100% AlCl <sub>3</sub> ).....	36,397	31,639	8,790	31,639	8,790	16,812	11,106	2,163	11,106	2,163		
	Hydroxide:												
2819421	Light or litho.....	(D)	(D)	( <sup>20</sup> )	(D)	(D)	(D)	(D)	( <sup>21</sup> )	(D)	(D)		
2819425	Trihydrate (100% Al <sub>2</sub> O <sub>3</sub> ·3H <sub>2</sub> O)....	92,400	84,485	5,306	(D)	(D)	(D)	(D)					
2819427	Fluoride (technical).....	55,954	54,089	13,884	(D)	(D)	(NA)	(NA)	( <sup>21</sup> )	(NA)	(NA)		
2819431	Oxide, except natural alumina (100% Al <sub>2</sub> O <sub>3</sub> ).....	2,886,207	2,866,773	166,883	(D)	(D)	1,142,665	1,145,613	50,544	652,414	31,141		
2819441	Sodium aluminate (62.2% Al <sub>2</sub> O <sub>3</sub> )....	27,625	(D)	( <sup>20</sup> )	(D)	(D)	8,458	8,774	730	(D)	(D)		
	Sulfate:												
2819451	Commercial (17% Al <sub>2</sub> O <sub>3</sub> ).....	22724,923	707,064	24,993	(D)	(D)	23583,538	582,916	13,800	580,887	13,750		
2819455	Iron-free (17% Al <sub>2</sub> O <sub>3</sub> ).....	23,745	23,100	1,633	(D)	(D)							
2819461	Cryolite (synthetic).....	(D)	(D)	( <sup>20</sup> )	(D)	(D)	(NA)	(NA)	( <sup>24</sup> )	(NA)	(NA)		

See footnotes at end of table.



Table 6A.--QUANTITY AND VALUE OF PRODUCTS SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, FOR THE UNITED STATES: 1954 AND 1947--Continued

Product code	Product	1954						1947					
		Production for all purposes (quantity)	Total shipments including interplant transfers		Commercial shipments		Production for all purposes (quantity)	Total shipments including interplant transfers		Commercial shipments			
			Quantity	Value	Quantity	Value		Quantity	Value	Quantity	Value		
		(Short tons)	(Short tons)	(\$1,000)	(Short tons)	(\$1,000)	(Short tons)	(Short tons)	(\$1,000)	(Short tons)	(\$1,000)	(Short tons)	(\$1,000)
2819---	Inorganic chemicals, n.e.c.--												
	Continued												
28194	Aluminum compounds--Continued												
	Alums:												
2819481	Ammonium-aluminum sulfate.....	(D)	(D)	(20)	(D)	(D)	5,018	5,167	374	(D)	(D)		
2819483	Potassium aluminum sulfate.....	(D)	(D)	(20)	(D)	(D)	4,106	3,563	290	(D)	(D)		
2819485	Sodium aluminum sulfate.....	(D)	(D)	(20)	(D)	(D)							
2819487	Other alums.....	xxx	xxx	(20)	xxx	(NA)	xxx	xxx	1,545	xxx	(NA)		
2819471	Other inorganic aluminum compounds.....	xxx	xxx	2012,565	xxx	(NA)	xxx	xxx	216,689	xxx	(NA)		
28195	Potassium, and sodium compounds (except bleaches, alkalies, and alums).....	xxx	xxx	14275,814	xxx	xxx	xxx	xxx	145,865	xxx	xxx		
	Potassium compounds, n.e.c.:												
2819511	Bromide (100% KBr).....	(D)	(D)	(25)	(D)	(D)	(D)	(D)	(26)	(D)	(D)		
2819512	Chlorate (100% KClO <sub>3</sub> ).....	(D)	(D)	(25)	(D)	(D)	10,253	10,619	2,173	(D)	(D)		
2819513	Iodide (100% KI).....	342	352	1,409	342	1,409	630	589	2,163	(D)	(D)		
2819514	Nitrate.....	(D)	(D)	(25)	(D)	(D)							
2819515	Perchlorate (100% KClO <sub>4</sub> ).....	826	889	285	(D)	(D)							
2819516	Sulfate.....	(D)	(D)	(25)	(D)	(D)	xxx	xxx	2612,837	xxx	xxx		
2819517	Other potassium salts and compounds, n.e.c. <sup>27</sup> .....	xxx	xxx	2583,662	xxx	149							
2819521	Sodium (metal) (100%).....	127,299	48,913	15,609	(D)	(D)	(NA)	(NA)	(NA)	(NA)	(NA)		
	Sodium compounds, n.e.c.:												
2819522	Bisulfate (niter-cake) (100% NaHSO <sub>4</sub> ).....	(D)	(D)	(28)	(D)	(D)	16,234	18,419	689	14,615	553		
2819523	Bifluoride (100% NaHF <sub>2</sub> ) <sup>27</sup> .....	(D)	(D)	(28)	(D)	(D)							
2819524	Borate (borax) (technical).....	354,420	182,088	7,785	182,088	11,341	308,542	177,984	7,289	177,984	7,289		
2819525	Bromide (100% NaBr).....	(D)	(D)	(28)	(D)	(D)	(D)	(D)	(24)	(D)	(D)		
2819526	Cyanide (100% NaCN).....	(D)	(D)	(28)	(D)	(D)	(D)	(D)	(24)	(D)	(D)		
2819527	Chlorate (100% NaClO <sub>3</sub> ).....	39,952	22,645	3,523	(D)	(D)	20,459	17,538	2,443	17,538	2,443		
2819528	Fluoride (100% NaF).....	4,721	4,660	1,042	(D)	(D)							
2819529	Hydro sulfide (sodium sulf-hydrate) (100% NaSH).....	23,207	20,504	2,588	26,863	2,588	11,732	11,643	758	(D)	(D)		
2819530	Hydro sulfite (100% Na <sub>2</sub> S <sub>2</sub> O <sub>4</sub> ).....	26,201	25,837	11,460	(D)	(D)	20,910	20,029	7,415	20,029	7,415		
2819531	Peroxide.....	(D)	(D)	(28)	(D)	(D)							
	Phosphate:												
2819532	Monobasic (100% NaH <sub>2</sub> PO <sub>4</sub> ).....	297,114	6,911	1,123	6,911	1,123	14,690	4,082	616	3,978	599		
2819533	Dibasic (100% Na <sub>2</sub> HPO <sub>4</sub> ).....	2926,604	24,331	3,623	(D)	(D)	78,806	24,802	3,012	24,245	2,951		
2819534	Tribasic (100% Na <sub>3</sub> PO <sub>4</sub> ).....	48,435	48,008	8,889	48,008	8,889	88,568	88,307	11,878	87,747	11,798		
2819535	Tetra basic (pyro) (100% Na <sub>4</sub> P <sub>2</sub> O <sub>7</sub> ).....	108,989	88,355	13,113	(D)	(D)	56,641	53,637	6,554	51,719	6,330		
2819536	Meta (100% NaPO <sub>3</sub> ).....	52,808	51,688	9,076	(D)	(D)	30,460	29,776	4,497	(D)	(D)		
2819537	Acid pyro (100% Na <sub>2</sub> H <sub>2</sub> P <sub>2</sub> O <sub>7</sub> ).....	14,238	13,544	2,538	(D)	(D)	15,180	14,790	2,475	(D)	(D)		
2819538	Tripoly (100% Na <sub>3</sub> P <sub>3</sub> O <sub>10</sub> ).....	520,549	487,259	76,230	(D)	(D)							
2819539	Other sodium phosphates.....	xxx	xxx	1,841	xxx	(NA)	xxx	xxx	6,456	xxx	(NA)		
	Silicates:												
2819541	Soluble silicate glass (water glass), solid and liquid (anhydrous).....	595,996	451,024	25,240	451,824	25,240	492,837	450,799	14,089	449,833	14,064		
2819543	Metasilicate (100% Na <sub>2</sub> SiO <sub>3</sub> ·5H <sub>2</sub> O).....	132,908	113,569	7,942	(D)	(D)	76,035	68,994	3,938	66,551	3,784		
2819545	Orthosilicate (100% (Na <sub>4</sub> SiO <sub>4</sub> ).....	35,203	34,596	3,195	34,596	3,195	35,566	31,846	3,077	30,030	2,985		
2819547	Sesquisilicate (100% Na <sub>3</sub> SiO <sub>4</sub> ·5H <sub>2</sub> O).....	(D)	(D)	(28)	(D)	(D)	(D)	(D)	(24)	(D)	(D)		
2819551	Silicofluoride (100% Na <sub>2</sub> SiF <sub>6</sub> ).....	19,783	17,774	2,347	(D)	(D)	17,996	15,377	1,945	15,377	1,945		
	Sulfate:												
2819561	Anhydrous (refined) (100% Na <sub>2</sub> SO <sub>4</sub> ).....	204,668	201,990	4,625	201,990	4,625	134,969	36,534	1,023	36,534	1,023		
2819565	Salt cake (crude) technical..	658,638	645,028	11,687	645,028	11,687	693,517	614,853	10,741	608,303	10,626		
2819567	Glauber's salt (100% Na <sub>2</sub> SO <sub>4</sub> ·10H <sub>2</sub> O).....	146,992	90,390	915	90,390	915	202,285	28,794	809	28,064	794		
	Sulfide (60-62% Na <sub>2</sub> S):												
2819581	Crystal.....	(D)	(D)	(30)	(D)	(D)	(D)	(D)	(30)	(D)	(D)		
2819582	Concentrated.....	22,792	23,396	2,314	(D)	(D)	39,245	38,680	3,367	37,890	3,293		
2819583	Other (including liquid).....	28,081	9,147	30430	(D)	(D)	xxx	xxx	301,044	xxx	xxx		
2819584	Sulfite (100% Na <sub>2</sub> SO <sub>3</sub> ).....	80,282	80,494	3,930	80,494	3,930	36,364	36,053	1,854	34,730	1,776		
2819585	Thiosulfate (hypo) (100% Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> ·5H <sub>2</sub> O).....	37,658	37,131	3,018	(D)	(D)	34,809	33,604	1,921	32,930	1,884		
2819587	Other sodium compounds, n.e.c..	xxx	xxx	2847,570	xxx	(NA)	xxx	xxx	2430,802	xxx	(NA)		

See footnotes at end of table.



## MANUFACTURES—INDUSTRY STATISTICS

Table 6A.—QUANTITY AND VALUE OF PRODUCTS SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, FOR THE UNITED STATES: 1954 AND 1947—Continued

Product code	Product	1954					1947				
		Production for all purposes (quantity)	Total shipments including interplant transfers		Commercial shipments		Production for all purposes (quantity)	Total shipments including interplant transfers		Commercial shipments	
			Quantity	Value	Quantity	Value		Quantity	Value		
										(Short tons)	(\$1,000)
2819----	Inorganic chemicals, n.e.c.--										
	Continued										
2819611	Reagent and high purity grades of inorganic chemicals refined from purchased technical grades.....	xxx	xxx	11,738	xxx	(NA)	xxx	xxx	4,965	xxx	(NA)
28197	Other inorganic chemicals, n.e.c...	xxx	xxx	14,456,725	xxx	xxx	xxx	xxx	219,560	xxx	xxx
	Barium compounds:										
2819701	Carbonate (precipitated) (100% BaCO <sub>3</sub> ).....	48,831	47,387	4,373	47,387	4,373	37,970	28,062	1,900	27,943	1,891
2819702	Chloride (anhydrous and crystals (100% BaCl <sub>2</sub> ·2H <sub>2</sub> O)....	(D)	(D)	( <sup>31</sup> )	(D)	(D)	15,699	14,850	1,270	(D)	(D)
2819703	Peroxide.....	(D)	(D)	( <sup>31</sup> )	(D)	(D)	xxx	xxx	1,907	xxx	(NA)
2819704	Sulfide (100% BaS).....	41,095	825	69	825	69					
2819705	Nitrate (100% Ba(NO <sub>3</sub> ) <sub>2</sub> ).....	1,854	1,399	370	(D)	(D)					
2819706	Other barium compounds <sup>32</sup> .....	xxx	xxx	316,243	xxx	(NA)					
	Bismuth compounds:										
2819708	Subcarbonate (100% Bi <sub>2</sub> O <sub>2</sub> CO <sub>3</sub> ) <sub>2</sub> ·H <sub>2</sub> O).....	109	102	722	102	722	135	116	608	116	608
2819709	Subnitrate, except U.S.P. and N.F. grades (100% BiONO <sub>3</sub> ·H <sub>2</sub> O).....	79	83	442	83	442	231	205	859	205	859
2819710	Other bismuth compounds.....	xxx	xxx	307	xxx	(NA)	xxx	xxx	( <sup>33</sup> )	xxx	(NA)
2819711	Bromine (isolated) (100% Br <sub>2</sub> )....	(D)	3,227	1,459	(D)	(D)	2,209	746	234	746	234
	Calcium compounds:										
2819712	Carbide.....	719,304	431,996	38,525	(D)	(D)	607,113	(D)	( <sup>34</sup> )	(D)	(D)
2819713	Carbonate (precipitated) (100% CaCO <sub>3</sub> ).....	161,565	135,663	6,625	(D)	(D)	186,743	178,471	5,367	165,225	5,164
	Chloride:										
2819714	Solid (excluding flake) (73-75% CaCl <sub>2</sub> ).....	437,703	437,262	10,786	437,262	10,786	11,432	11,571	245	(D)	(D)
2819715	Flake (77-80% CaCl <sub>2</sub> ).....						299,104	299,106	4,920	297,835	4,894
2819716	Liquid (40-45% CaCl <sub>2</sub> ) <sup>42</sup> .....						86,834	77,299	390	75,579	386
	Phosphate:										
2819718	Monobasic.....	xxx	xxx	3516,903	xxx	xxx	xxx	xxx	357,931	xxx	xxx
2819719	Dibasic:										
2819720	Animal feed grades.....										
2819721	Other grades, except fertilizer grades.....	xxx	xxx	3516,903	xxx	xxx	xxx	xxx	357,931	xxx	xxx
2819722	Tribasic.....										
2819723	Other inorganic calcium compounds <sup>42</sup> .....	xxx	xxx	8,535	xxx	xxx	xxx	xxx	3429,680	xxx	xxx
	Carbon activated:										
2819724	Decolorizing.....	46,200	44,100	9,326	44,100	9,326	xxx	xxx	4,249	xxx	xxx
2819726	Water purification.....										
2819725	Deodorizing.....										
2819727	Solvent recovery and gas absorption.....										
	Chromium compounds:										
2819728	Bichromates:										
2819729	Potassium.....	2,928	2,691	796	(D)	(D)	(D)	(D)	( <sup>19</sup> )	(D)	(D)
	Sodium.....	99,197	71,994	16,263	(D)	(D)	90,285	76,414	11,283	66,259	9,595
2819731	Chromates:										
2819730	Sodium.....	...	...	...	...	...	(D)	(D)	( <sup>19</sup> )	(D)	(D)
2819732	Potassium.....	...	...	...	...	...	(D)	(D)	( <sup>19</sup> )	(D)	(D)
2819733	Other chromium compounds <sup>32</sup> .....	xxx	xxx	4,495	xxx	(NA)	xxx	xxx	194,678	xxx	(NA)
	Copper compounds:										
2819733	Cyanide (100% Cu(CN) <sub>2</sub> ).....	(D)	(D)	( <sup>37</sup> )	(D)	(D)	(D)	(D)	(37)	(D)	(D)
2819734	Oxide:										
2819735	Cupric (100% Cu <sub>2</sub> O).....	(D)	(D)	(37)	(D)	(D)					
2819736	Cuprous (100% Cu <sub>2</sub> O).....	1,354	1,351	1,301	(D)	(D)					
2819737	Copper sulfate (100% CuSO <sub>4</sub> ·5H <sub>2</sub> O).....	65,360	63,552	13,025	(D)	(D)	87,807	69,623	9,604	67,610	9,346
2819738	Other copper compounds.....	xxx	xxx	374,264	xxx	(NA)	xxx	xxx	372,181	xxx	(NA)
2819739	Hydrogen peroxide (100% by weight).....	(D)	(D)	(36)	(D)	(D)	6,588	6,224	6,863	6,063	6,677
2819740	Iodine (resublimed) (quantity in pounds) (100% I <sub>2</sub> ) <sup>38</sup> .....	107,181	85,430	229	85,430	229	881,869	745,437	1,133	(D)	(D)
	Iron compounds:										
2819742	Ferric chloride (100% FeCl <sub>3</sub> )....	29,226	28,077	2,470	28,077	2,470	15,515	15,137	892	14,921	874
2819743	Ferrous sulfate (100% FeSO <sub>4</sub> ·7H <sub>2</sub> O).....	179,397	117,608	1,155	(D)	(D)	75,619	52,399	725	34,442	479
2819744	Other iron compounds <sup>32</sup> .....	xxx	xxx	2,713	xxx	(NA)	xxx	xxx	3,902	xxx	(NA)

See footnotes at end of table.

## INDUSTRIAL INORGANIC CHEMICALS

28A-15

Table 6A.--QUANTITY AND VALUE OF PRODUCTS SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, FOR THE UNITED STATES: 1954 AND 1947--Continued

Product code	Product	1954				1947											
		Production for all purposes (quantity)	Total shipments including interplant transfers		Commercial shipments		Production for all purposes (quantity)	Total shipments including interplant transfers		Commercial shipments							
			Quantity	Value	Quantity	Value		Quantity	Value	Quantity	Value						
		(Short tons)	(Short tons)	(\$1,000)	(Short tons)	(\$1,000)	(Short tons)	(Short tons)	(\$1,000)	(Short tons)	(\$1,000)						
2819----	Inorganic chemicals, n.e.c.--																
	Continued																
28197	Other inorganic chemicals, n.e.c.--																
	Continued																
	Lead compounds:																
2819745	Nitrate (100% Pb(NO <sub>3</sub> ) <sub>2</sub> ).....	(D)	(D)	( <sup>36</sup> )	(D)	(D)	} xxx	566	531	197	531	197					
2819746	Dioxide (peroxide) (100% PbO <sub>2</sub> )..	(D)	(D)	( <sup>36</sup> )	(D)	(D)		xxx	xxx	120	xxx	(NA)					
2819747	Other lead compounds <sup>32</sup> .....	xxx	xxx	( <sup>36</sup> )	xxx	xxx		xxx	xxx								
	Magnesium compounds:																
2819748	Sulfate including epsom salts	} xxx	xxx	11,369	xxx	(NA)	xxx	xxx	6,980	xxx	(NA)						
2819749	(100% MgSO <sub>4</sub> ).....																
	Other magnesium compounds.....																
	Manganese compounds:																
2819750	Sulfate (100% MnSO <sub>4</sub> ·4H <sub>2</sub> O).....	} xxx	xxx	7,829	xxx	xxx	} xxx	18,340	17,447	1,125	(D)	(D)					
2819751	Dioxide, battery grade (100% MnO <sub>2</sub> ).....																
2819752	Other manganese compounds (including potassium and other permanganates).....														( <sup>30</sup> )	xxx	(NA)
	Mercury and compounds:																
2819753	Mercury redistilled (quantity in pounds).....	503,284	503,082	2,079	503,082	2,079	(D)	(D)	( <sup>39</sup> )	(D)	(D)						
	Chloride:																
2819754	Mercuric (100% HgCl <sub>2</sub> ).....	} xxx	xxx	7,556	xxx	(NA)	} xxx	656	113	375	113	375					
2819755	Mercurous (100% HgCl).....							13	16	72	16	72					
	Oxide (mercuric)																
2819756	Yellow (100% HgO).....	} xxx	xxx	7,556	xxx	(NA)	} xxx	242	225	402	225	402					
2819757	Red (regular) (100% HgO).....																
2819758	Red (battery grade) (100% HgO)													16	75	16	75
2819759	Other mercury compounds, except mercuric fulminate and medicinal grades.....						xxx	xxx	<sup>39</sup> 577	xxx	(NA)						
	Nickel compounds:																
2819760	Sulfate (100% NiSO <sub>4</sub> ·6H <sub>2</sub> O).....	7,441	7,267	4,132	(D)	(D)	8,879	8,732	2,072	6,772	1,645						
2819761	Other nickel compounds.....	xxx	xxx	6,221	xxx	(NA)	xxx	xxx	1,612	xxx	(NA)						
	Phosphorus and compounds:																
	Phosphorus, elemental:																
2819762	White (yellow) technical.....	} 266,887	225,208	70,588	17,400	5,869	85,940	57,898	13,636	8,645	1,979						
2819763	Red technical.....																
2819764	Oxychloride (100% POCl <sub>3</sub> ).....	15,240	7,681	1,879	7,681	1,879	7,301	5,931	1,063	(D)	(D)						
2819765	Pentoxide (100% P <sub>2</sub> O <sub>5</sub> ).....	7,010	5,294	1,152	5,294	1,152	8,780	5,828	911	5,378	838						
2819766	Trichloride (chloride) (100% PCl <sub>3</sub> ).....	9,758	4,046	1,058	4,046	1,058	} xxx	xxx	1,650	xxx	(NA)						
2819767	Other phosphorus compounds.....	xxx	xxx	3,895	xxx	(NA)											
	Silical gel:																
2819768	Butadiene catalyst grade.....	} xxx	xxx	45,458	xxx	xxx	xxx	xxx	6,690	xxx	xxx						
2819769	Desiccant grade.....																
2819770	Aviation gas catalyst grade.....																
	Silver compounds:																
2819771	Cyanide (100% AgCN) (thousand ounces).....	2,143	2,164	1,349	2,164	1,349	619	678	408	678	408						
2819772	Nitrate (100% AgNO <sub>3</sub> ) (thousand ounces).....	63,017	27,579	13,028	27,579	13,028	38,336	14,405	5,927	(D)	(D)						
2819773	Other silver compounds.....	xxx	xxx	1,762	xxx	xxx	xxx	xxx	( <sup>33</sup> )	xxx	(NA)						
	Sulfur compounds:																
2819775	Dioxide (produced for sale) (100% SO <sub>2</sub> ).....	4048,348	49,386	3,236	48,740	3,186	(NA)	27,207	2,270	26,963	2,254						
2819776	Chloride technical.....	7,606	6,084	430	6,084	430	4,896	3,375	190	3,375	190						
2819777	Other sulfur compounds, including refined sulfur.....	xxx	xxx	9,140	xxx	(NA)	xxx	xxx	7,922	xxx	(NA)						
	Tin compounds:																
2819778	Chloride (stannic) 100%																
	SnCl <sub>4</sub> ).....	(D)	(D)	( <sup>41</sup> )	(D)	(D)	(D)	(D)	( <sup>41</sup> )	(D)	(D)						
2819779	Chloride (stannous) (100%																
	SnCl <sub>2</sub> ).....	789	465	711	(D)	(D)	333	315	370	288	335						
2819780	Oxide (stannic) (100% SnO <sub>2</sub> ).....	(D)	(D)	( <sup>41</sup> )	(D)	(D)	(D)	(D)	( <sup>41</sup> )	(D)	(D)						
2819781	Other tin compounds.....	xxx	xxx	413,396	xxx	(NA)	xxx	xxx	411,045	xxx	(NA)						

See footnotes at end of table.

## MANUFACTURES--INDUSTRY STATISTICS

Table 6A.--QUANTITY AND VALUE OF PRODUCTS SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, FOR THE UNITED STATES: 1954 AND 1947--Continued

Product code	Product	1954						1947					
		Production for all purposes (quantity)	Total shipments including interplant transfers		Commercial shipments		Production for all purposes (quantity)	Total shipments including interplant transfers		Commercial shipments			
			Quantity	Value	Quantity	Value		Quantity	Value	Quantity	Value		
			(Short tons)	(Short tons)	(\$1,000)	(Short tons)		(\$1,000)	(Short tons)	(Short tons)	(\$1,000)	(Short tons)	(\$1,000)
2819----	Inorganic chemicals, n.e.c.--												
28197	Continued												
	Other inorganic chemicals, n.e.c.--												
	Continued												
	Titanium compounds:												
2819782	Tetrachloride technical (pounds).....	(D)	(D)	(36)	(D)	(D)	}	xxx	xxx	(33)	xxx	(NA)	
2819783	Other titanium compounds <sup>32</sup> .....	xxx	xxx	(36)	xxx	(NA)							
	Zinc compounds:												
2819784	Chloride (100% ZnCl <sub>2</sub> ).....	25,589	18,539	3,367	(D)	(D)	}	xxx	xxx	(44)	xxx	xxx	(NA)
2819785	Hydrosulfite technical.....	(D)	(D)	(43)	(D)	(D)							
2819786	Phosphide technical.....	(D)	(D)	(43)	(D)	(D)							
2819787	Sulfate (100% SnSO <sub>4</sub> ·7H <sub>2</sub> O).....	40,142	24,505	2,959	(D)	(D)							
2819788	Other zinc compounds <sup>32</sup> .....	xxx	xxx	435,444	xxx	(NA)		14,347	12,319	1,312	(D)	(D)	
								xxx	xxx	446,486	xxx	(NA)	
2819790	Antimony compounds, (excluding pigment grades).....	}	xxx	xxx	36101,015	xxx	(NA)	xxx	xxx	2,159	xxx	(NA)	
2819790	Arsenic compounds, including white arsenic <sup>45</sup> .....												
2819790	Strontium compounds.....												
2819790	Tungsten compounds.....												
2819798	All other inorganic chemicals.....												
2819700	Inorganic chemicals, not specified by kind.....	xxx	xxx	488	xxx	(NA)	xxx	xxx	551	xxx	(NA)		

xxx Not applicable.

D Withheld to avoid disclosing figures for individual companies.

NA Not available.

<sup>1</sup>The 1954 data include figures for Government-owned but privately operated plants.<sup>2</sup>Total new (virgin) acid production in short tons of 100% H<sub>2</sub>SO<sub>4</sub> is as follows: 13,556,491 for 1954, and 10,103,393 for 1947.<sup>3</sup>Total new (virgin) acid (contact) production in short tons of 100% H<sub>2</sub>SO<sub>4</sub> is as follows: 11,044,764 for 1954, and 6,828,640 for 1947.<sup>4</sup>Production figures include quantities liquefied for use, storage, or shipments.<sup>5</sup>Excludes data for natural soda ash, which according to information published for Industry 1474, Potash, Soda, and Borate Minerals show for 1954 that 545,000 tons were produced and 527,000 tons valued at \$13,535,000 were shipped. The comparable 1947 data are 276,428 tons produced, and 260,670 tons valued at \$5,114,000 shipped.<sup>6</sup>Includes quantities consumed in the manufacture of finished light and dense soda ash, caustic soda, as well as quantities consumed in the manufacture of refined (finished) sodium bicarbonate.<sup>7</sup>Excludes quantities converted to finished dense soda ash.<sup>8</sup>Includes quantities later evaporated to dry caustic and reported as such.<sup>9</sup>Included in "Other Carbonates." The total primary production for all purposes of potassium carbonate in 1954 amounted to 24,665 short tons of 100% K<sub>2</sub>CO<sub>3</sub>.<sup>10</sup>Includes potassium carbonate, electrolytic soda ash, sodium carbonate (monohydrate), and sal soda.<sup>11</sup>Excludes products classified as alkaline detergents.<sup>12</sup>Primarily alkaline mixtures and residues.<sup>13</sup>Excludes the value of inorganic chemicals shipped by plants, whose primary activity is such that the establishment is classified as "nonmanufacturing." The data for specific chemicals (7 digit product codes), however, represent totals for wherever made, and therefore include figures for T.V.A. plants and those classified in the "Mineral Industries," which "nonmanufacturing" plants shipped \$88,474,000 of inorganic chemicals.<sup>14</sup>The sum of the detail product lines does not add to the product class totals because of the inclusion at the individual product level of shipments by plants classified as "nonmanufacturing." (See footnote 13.)<sup>15</sup>Includes amounts converted to solid.<sup>16</sup>Production include quantities reported by all establishments including those classified as "nonmanufacturing." The shipment data include only reports by plants classified as "manufacturing."<sup>17</sup>Codes 2819311, 2819321, 2819351, and 2819371 combined with code 2819398, "Other Inorganic Acids."<sup>18</sup>Codes 2819321 and 2819371 combined with code 2819398, "Other inorganic acids."<sup>19</sup>Codes 2819331, 2819728, and 2819730 combined with code 2819732, "Other chromium compounds."<sup>20</sup>Codes 2819421, 2819441, 2819461, 2819481, 2819483, 2819485 and 2819487 combined with product code 2819471, "Other inorganic aluminum compounds."<sup>21</sup>Codes 2819421, 2819425, and 2819427 combined with code 2819471, "Other Inorganic Aluminum Compounds."<sup>22</sup>In addition, 15,003 short tons were produced and consumed by municipalities.<sup>23</sup>Excludes quantities produced and consumed in establishments classified in pulp and paper industries.<sup>24</sup>Codes 2819461, 2819523, 2819525, 2819526, 2819528, 2819531, and 2819547 combined with codes 2819587, "Other sodium compounds, n.e.c."<sup>25</sup>Codes 2819511, 2819512, 2819514, and 2819516 combined with code 2819517, "Other potassium compounds, n.e.c."<sup>26</sup>Codes 2819511 combined with code 2819517.<sup>27</sup>The 1947 data exclude quantities produced or shipped by establishments primarily engaged in mining.<sup>28</sup>Codes 2819522, 2819523, 2819525, 2819526, 2819531, 2819547 combined with 2819587, "Other Sodium Compounds, N.E.C."<sup>29</sup>Represents quantities produced only for sale or interplant transfer.<sup>30</sup>Codes 2819581 combined with code 2819583, "Other sodium sulfide."<sup>31</sup>Codes 2819702 and 2819703 combined with code 2819706, "Other barium compounds."<sup>32</sup>Excludes chemicals classified in Industry 2852, Inorganic Color Pigments.<sup>33</sup>Codes 2819710, 2819773, 2819782, and 2819783, combined with code 2819798, "All other inorganic chemicals."<sup>34</sup>Code 2819712 has been combined with code 2819723.<sup>35</sup>Production of dicalcium phosphate for 1954 totaled 105,822 short tons for animal feed grades and 22,908 for other grades, except fertilizer grades. The comparable 1947 figure is 41,323 short tons. The 1954 figures for monobasic and tribasic may not be shown without disclosing figures for individual companies, whereas the 1947 figure of 36,898 short tons for monobasic may only be shown.<sup>36</sup>Codes 2819727, 2819739, 2819745, 2819746, 2819747, 2819782, and 2819783 combined with code 2819798, "All other inorganic chemicals."<sup>37</sup>Codes 2819733, 2819734, and 2819735 data included in totals for product code 2819737, "Other copper compounds."<sup>38</sup>The 1947 data include an unspecified amount of domestically produced crude.<sup>39</sup>Code 2819753 combined with code 2819759.<sup>40</sup>Plants which produced for sale or interplant transfer also produced and consumed an additional 7,046 short tons.<sup>41</sup>Codes 2819778 and 2819780 combined with code 2819781, "Other tin compounds."<sup>42</sup>Excludes quantities of liquid used to produce solid calcium chloride.<sup>43</sup>Codes 2819785, 2819786 combined with 2819788, "Other zinc compounds."<sup>44</sup>Codes 2819784, 2819785, and 2819786 combined with code 2819788, "Other zinc compounds."<sup>45</sup>Excludes data for calcium and lead arsenate and other arsenical preparations classified as primary to Industry 2897, Insecticides and Fungicides.<sup>46</sup>Includes defluorinated superphosphate and defluorinated phosphate rock (feed grade) now coded 2871371. (See also footnote 33).



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Table 6B.—VALUE OF PRODUCT CLASSES SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, BY DIVISIONS AND STATES FOR 1954, AND UNITED STATES TOTALS FOR EARLIER YEARS

(In thousands of dollars. Statistics are shown for selected product classes which are economically significant and production of which is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (Table 2) and they are not miscellaneous or "not specified by type" classes. For each product class, States are listed only if the value of shipments is more than \$1 million and the figure does not disclose individual company information. Additional States which had shipments of more than \$1 million of the individual product classes are listed in footnote 1)

Product class, region, and State <sup>1</sup>	Value of shipments	Product class, region, and State <sup>1</sup>	Value of shipments	Product class, region, and State <sup>1</sup>	Value of shipments
<u>Sulfuric acid (28110)</u>		<u>Sodium hydroxide (caustic soda) (28123)</u>		<u>Chlorine and other bleaching compounds (28192)—Continued</u>	
1954 United States, total.....	161,248	1954 United States, total.....	148,819	1952 United States, total.....	59,469
1953 United States, total.....	156,327	1953 United States, total.....	135,409	1951 United States, total.....	54,075
1952 United States, total.....	136,173	1952 United States, total.....	125,495	1950 United States, total.....	48,778
1951 United States, total.....	136,740	1951 United States, total.....	137,721	1947 United States, total.....	37,276
1950 United States, total.....	115,446	1947 United States, total.....	82,644		
1947 United States, total.....	89,129				
1954		1954		1954	
New England.....	2,445	Northeast.....	19,694	New England.....	1,553
Middle Atlantic.....	26,295	New York.....	18,861	Middle Atlantic.....	23,290
Pennsylvania.....	12,701	North Central.....	31,174	New York.....	8,832
North Central.....	42,206	Michigan.....	17,962	New Jersey.....	12,720
Ohio.....	10,746	South.....	80,781	Pennsylvania.....	1,738
Indiana.....	8,911	West Virginia.....	14,351	East North Central.....	19,363
Illinois.....	15,331	Alabama.....	4,669	Ohio.....	5,337
South Atlantic.....	24,775	Louisiana.....	16,023	Illinois.....	6,826
East South Central.....	14,487	Texas.....	28,286	Michigan.....	6,827
Alabama.....	3,084	West.....	17,170	West North Central.....	9,339
West South Central.....	30,791	<u>Synthetic ammonia, nitric acid, ammonium compounds (28191)</u>		South Atlantic.....	11,531
Mountain.....	5,462	1954 United States, total.....	296,868	North Carolina.....	3,017
Pacific.....	14,787	1953 United States, total.....	246,564	Georgia.....	4,249
<u>Chlorine (28121)</u>		1952 United States, total.....	219,369	Florida.....	2,079
1954 United States, total.....	87,195	1951 United States, total.....	182,227	East South Central.....	1,253
1953 United States, total.....	83,730	1950 United States, total.....	166,105	West South Central.....	5,883
1952 United States, total.....	71,321	1947 United States, total.....	95,414	Texas.....	4,735
1951 United States, total.....	66,193	1954		West.....	11,575
1950 United States, total.....	50,997	New England.....	1,741	California.....	9,256
1947 United States, total.....	31,204	Middle Atlantic.....	13,835	Inorganic acids, except nitric and sulfuric (28193)	
1954		Pennsylvania.....	5,397	1954 United States, total.....	78,851
Northeast.....	9,142	East North Central.....	34,580	1947 United States, total.....	30,071
North Central.....	16,263	Michigan.....	5,576	1954	
Ohio.....	5,308	West North Central.....	24,429	Northeast.....	19,562
South Atlantic.....	19,746	South.....	178,816	New Jersey.....	12,423
West Virginia.....	11,981	Louisiana.....	25,174	Pennsylvania.....	2,295
East South Central.....	5,092	West.....	43,467	East North Central.....	22,025
West South Central.....	24,447	California.....	36,529	Ohio.....	2,515
Texas.....	13,229	<u>Chlorine and other bleaching compounds (28192)</u>		West North Central.....	1,734
West.....	12,506	1954 United States, total.....	83,787	South Atlantic.....	8,899
		1953 United States, total.....	63,224	East South Central.....	6,714
				West South Central.....	10,161

See footnotes at end of table.



## MANUFACTURES—INDUSTRY STATISTICS

Table 6B.—VALUE OF PRODUCT CLASSES SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, BY DIVISIONS AND STATES FOR 1954, AND UNITED STATES TOTALS FOR EARLIER YEARS—Continued

Product class, region, and State <sup>1</sup>	Value of shipments	Product class, region, and State <sup>1</sup>	Value of shipments	Product class, region, and State <sup>1</sup>	Value of shipments
<u>Inorganic acids, except nitric and sulfuric (28193)—Continued</u>		<u>Other potassium and sodium compounds (28195)—Continued</u>		<u>Other inorganic chemicals (28197)—Continued</u>	
West.....	9,756	West North Central.....	20,097	Middle Atlantic.....	128,318
California.....	7,104	South Atlantic.....	27,876	New York.....	39,029
		Maryland.....	1,560	New Jersey.....	56,793
		Virginia.....	13,935	Pennsylvania.....	32,496
<u>Other potassium and sodium compounds (28195)</u>		East South Central.....	5,906	East North Central.....	98,789
1954 United States, total.....	275,814	West South Central.....	11,741	Ohio.....	47,966
1947 United States, total.....	145,865	Texas.....	6,085	Illinois.....	21,374
1954		West.....	30,712	Michigan.....	25,690
		California.....	26,526	West North Central.....	20,041
New England.....	3,090	Other inorganic chemicals (28197)		South Atlantic.....	68,131
Middle Atlantic.....	84,846	1954 United States, total.....	456,725	Maryland.....	21,197
New York.....	29,433	1947 United States, total.....	219,560	Virginia.....	15,503
New Jersey.....	35,395	1954		Florida.....	7,551
Pennsylvania.....	20,017	New England.....	7,075	East South Central.....	61,746
East North Central.....	91,546	Massachusetts.....	5,104	West South Central.....	17,780
Ohio.....	14,367			Texas.....	9,597
Illinois.....	41,662			Mountain.....	32,444
				Pacific.....	22,401

Note: The figures shown for 1950 to 1953 are sample estimates obtained from the Annual Survey of Manufactures for those years. Since the estimates are based on a sample they are subject to sampling variability, that is, they are not the same as figures which would have been obtained if complete censuses had been taken for those years. Measures of the sampling variability (standard errors) of the estimated total value of shipments of each product class are shown in the Annual Survey of Manufactures publications. Also shown are the standard errors of the relative change in shipments between some consecutive Annual Survey years which are the more significant measures when the series is studied for trend.

<sup>1</sup>For the specified product classes, shipments of over \$1 million were reported for the States listed but the exact figures are withheld to avoid disclosure of individual company figures: 28121, New York, Michigan, Maryland, Virginia, Alabama, Arkansas, Louisiana, Nevada, Washington, Oregon, and California; 28191, Massachusetts, New York, New Jersey, Ohio, Illinois, Missouri, Nebraska, Kansas, Maryland, Virginia, West Virginia, Kentucky, Mississippi, Arkansas, Texas, Nevada, and Washington; 28192, Minnesota, Missouri, Tennessee, and Washington; 28193, Massachusetts, New York, Indiana, Illinois, Michigan, Kansas, Delaware, Maryland, North Carolina, Kentucky, Louisiana, Texas, and Nevada; 28195, Massachusetts, Rhode Island, Indiana, Michigan, Missouri, Kansas, Delaware, West Virginia, Tennessee, Alabama, Louisiana, Utah, Nevada; 28197, Rhode Island, Indiana, Minnesota, Iowa, Missouri, Kansas, Delaware, West Virginia, South Carolina, Georgia, Kentucky, Tennessee, Alabama, Louisiana, Montana, Idaho, Colorado, Nevada, Washington, Oregon, and California.

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Table 6C.--PRODUCTION AND SHIPMENTS OF SULFURIC ACID, BY DIVISIONS AND STATES: 1954 AND 1947

Division and State	1954 <sup>1</sup>			1947 <sup>1</sup>		
	Total production (short tons 100% H <sub>2</sub> SO <sub>4</sub> )	Shipments including interplant transfers		Total production (short tons 100% H <sub>2</sub> SO <sub>4</sub> )	Shipments including interplant transfers	
		Quantity (short tons 100% H <sub>2</sub> SO <sub>4</sub> )	Value (\$1,000)		Quantity (short tons 100% H <sub>2</sub> SO <sub>4</sub> )	Value (\$1,000)
United States, total.....	13,556,491	8,315,750	161,248	10,780,166	6,824,756	89,129
New England <sup>2</sup> .....	169,880	98,850	2,445	183,151	102,156	1,808
Middle Atlantic.....	2,155,017	1,245,628	26,295	2,288,498	1,558,181	22,608
Pennsylvania.....	713,074	667,873	12,701	855,608	744,565	10,168
Other <sup>3</sup> .....	1,441,943	577,755	13,594	1,432,890	813,616	12,440
North Central.....	3,108,264	1,888,443	42,206	2,418,801	1,584,241	21,565
Ohio.....	656,223	457,335	10,746	624,377	446,755	6,660
Indiana.....	440,166	397,315	8,911	(*)	(*)	(*)
Illinois.....	1,257,759	710,971	15,331	1,135,991	837,008	10,894
Michigan.....	217,888	184,386	4,378	133,244	102,928	1,606
Other <sup>4</sup> .....	536,228	138,436	2,840	525,189	197,550	2,405
South.....	6,995,770	4,015,299	70,053	5,062,336	2,862,891	33,773
Virginia.....	463,892	(D)	(D)	(*)	(*)	(*)
North Carolina.....	142,048	6,601	124	(*)	(*)	(*)
South Carolina.....	163,372	26,722	437	165,981	12,200	164
Georgia.....	212,727	30,724	533	241,789	36,525	425
Florida.....	1,185,905	31,461	542	(*)	(*)	(*)
Alabama.....	269,575	177,703	3,084	184,333	60,996	706
Louisiana.....	730,021	(D)	(D)	462,049	343,666	4,432
Texas.....	1,212,530	(D)	(D)	(*)	(*)	(*)
Other <sup>6</sup> .....	2,615,700	1,934,587	32,292	4,008,184	2,409,504	28,046
West <sup>7</sup> .....	1,127,560	1,067,530	20,249	827,380	717,287	9,375

D Withheld to avoid disclosing figures for individual companies. <sup>1</sup>The 1954 production figures represent virgin acid production only, and these as well as the shipment figures include data for Government-owned, privately operated plants, whereas those for 1947 represent gross production (virgin plus fortified spent), and exclude data for Government-owned, privately operated plants. <sup>2</sup>Includes data for plants located in Maine, Massachusetts, Rhode Island and Connecticut. <sup>3</sup>Includes data for plants located in New York and New Jersey. <sup>4</sup>Included in other States of the region. <sup>5</sup>In 1954 includes data for plants located in Wisconsin, Missouri, Iowa, and Kansas, where as the 1947 figure includes data for plants located in Indiana, Missouri, and Wisconsin. <sup>6</sup>In 1954 includes data for plants located in Delaware, Maryland, West Virginia, Kentucky, Tennessee, Mississippi, Arkansas and Oklahoma, whereas the 1947 figures includes data for these States, as well as for Florida, North Carolina, Texas, and Virginia. <sup>7</sup>In 1947 includes data for plants located in Montana, Colorado, Arizona, Utah, Washington and California, whereas the 1954 figures include data for these States as well as for (plants located in Idaho, and Wyoming.)

Table 7A. SELECTED MATERIALS CONSUMED BY THE INDUSTRIAL INORGANIC CHEMICALS INDUSTRIES, BY INDUSTRY AND KIND: 1954

Code	Industry and description of materials	Basis	Unit of measure	Consumption of materials received from other establishments	
				Quantity	Delivered cost (\$1,000)
	INDUSTRY 2811—SULFURIC ACID				
	Materials, containers, and supplies, total.....	.....	.....	xxx	70,090
	Inorganic chemicals:				
281931	Ammonia, anhydrous.....	100% NH <sub>3</sub> .....	Short ton.....	36,059	3,549
281231	Soda ash.....	98-100% Na <sub>2</sub> CO <sub>3</sub> .....	.....do.....	(D)	( <sup>2</sup> )
281221	Caustic soda.....	100% NaOH.....	.....do.....	10,282	578
	Crude materials: <sup>1</sup>				
147911	Pyrites.....	.....	Long ton.....	249,302	2,118
147711	Sulfur, crude.....	.....	.....do.....	1,066,221	35,478
281151	Sulfuric acid sludge (decomposition acid).....	100% H <sub>2</sub> SO <sub>4</sub> .....	Short ton.....	372,833	2,542
970000	All other materials, containers, and supplies.....	.....	.....	xxx	225,825
	INDUSTRY 2812—ALKALIES AND CHLORINE				
	Materials, containers, and supplies, total.....	.....	.....	xxx	99,121
	Inorganic chemicals:				
281931	Ammonia, anhydrous.....	100% NH <sub>3</sub> .....	Short ton.....	22,624	2,339
281231	Soda ash.....	90-100% Na <sub>2</sub> CO <sub>3</sub> .....	.....do.....	(D)	(D)
281111	Sulfuric acid, except spent acid.....	100% H <sub>2</sub> SO <sub>4</sub> .....	.....do.....	23,269	571
	Organic chemicals:				
293231	Benzol (benzene).....	100% C <sub>6</sub> H <sub>6</sub> .....	Thousand pounds...	49,247	2,793
	Crude materials:				
147711	Sulfur, crude.....	.....	Long ton.....	20,959	695
	Used as raw materials:				
293211	Coke.....	.....	Short ton.....	463,017	7,446
970000	All other materials, containers, and supplies consumed including materials, etc., not specified by kind.....	.....	.....	xxx	85,277
	INDUSTRY 2819—INORGANIC CHEMICALS, N.E.C.				
	Materials, containers, and supplies, total.....	.....	.....	xxx	524,190
	Inorganic chemicals:				
281931	Ammonia, anhydrous.....	100% NH <sub>3</sub> .....	Short ton.....	130,355	11,278
281211	Chlorine.....	.....	.....do.....	93,447	6,580
281231	Soda ash.....	90-100% Na <sub>2</sub> CO <sub>3</sub> .....	.....do.....	1,178,219	38,776
281221	Caustic soda.....	100% NaOH.....	.....do.....	228,150	11,567
281111	Sulfuric acid, except spent acid.....	100% H <sub>2</sub> SO <sub>4</sub> .....	.....do.....	752,889	16,231
	Organic chemicals:				
282921	Alcohol, ethyl, pure.....	.....	.....	(NA)	159
282923	Alcohol, ethyl, denatured.....	.....	.....	(NA)	302
282925	Alcohols, amyl, butyl, methyl, propyl.....	.....	.....	(NA)	238
282211	Aniline.....	100%.....	Thousand pounds...	(D)	(D)
293231	Benzol (benzene).....	100% C <sub>6</sub> H <sub>6</sub> .....	.....do.....	1,793	105
282221	Chlorobenzene.....	100%.....	.....do.....	(D)	(D)
282945	Ethylene glycol.....	100%.....	.....do.....	(D)	(D)
282951	Formaldehyde.....	37% HCHO.....	.....do.....	(D)	(D)
282151	Naphthalene, grades of 77.5° C or higher.....	.....	.....do.....	(D)	(D)
282251	Phenol.....	100%.....	.....do.....	538	86
282261	Phthalic anhydride.....	100%.....	.....do.....	(D)	(D)
	Crude materials:				
105111	Bauxite.....	.....	Short ton.....	6,645,661	79,344
147911	Pyrites (including pyrrhotite).....	.....	Long ton.....	311,885	3,490
147711	Sulfur, crude.....	.....	.....do.....	493,739	15,727
281151	Sulfuric acid sludge (decomposition acid).....	100% H <sub>2</sub> SO <sub>4</sub> .....	Short ton.....	196,199	2,136
333311	Zinc and zinc base alloy refinery shapes.....	.....	.....do.....	8,773	1,509
	Used as raw materials:				
121111	Bituminous coal and lignite.....	.....	Short ton.....	xxx	547
293211	Coke.....	.....	Short ton.....	1,078,782	13,989
291131	Fuel oil.....	.....	.....	xxx	58
131311	Natural gas.....	.....	Million cu. ft....	56,811	12,046
970000	All other materials, containers, and supplies consumed including materials, etc., not specified by kind.....	.....	.....	xxx	<sup>3</sup> 310,022

xxx Not applicable.

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>Excludes quantities of sulfur derived from other sources such as copper pyrites, hydrogen sulfide and smelter gas.<sup>2</sup>Cost for soda ash included in "All other materials."<sup>3</sup>Includes cost for aniline, chlorobenzene, ethylene glycol, formaldehyde, naphthalene and phthalic anhydride.

## INDUSTRIAL INORGANIC CHEMICALS

28A-21

Table 7B.—QUANTITIES OF SELECTED INORGANIC CHEMICALS PRODUCED AND CONSUMED; BY UNITED STATES TOTAL AND INDUSTRY CLASSIFICATION OF PRODUCING ESTABLISHMENTS: 1954

Code	Product description	Basis	Total (Short tons)	S.I.C. Industry					
				(2812) Alkalies and chlorine (Short tons)	(2819) Inorganic chemicals (Short tons)	(2822) Inter- mediates and organic colors (Short tons)	(2829) Organic chemi- cals, n.e.c. (Short tons)	(2826) Ex- plosives (Short tons)	Other industries (Short tons)
2811100	Sulfuric acid.....	100% H <sub>2</sub> SO <sub>4</sub> ..	6,075,071	...	1,004,704	308,083	182,044	272,834	<sup>1</sup> 4,307,406
2812100	Chlorine, net <sup>2</sup> .....	100% Cl <sub>2</sub> .....	1,344,148	298,200	115,207	( <sup>3</sup> )	652,711	...	<sup>3</sup> 278,030
2812111	Gas <sup>2</sup> .....	...do.....	2,708,141	xxx	xxx	xxx	xxx	xxx	xxx
2812115	Liquid.....	...do.....	227,803	xxx	xxx	xxx	xxx	xxx	xxx
2812235	Sodium carbonate (soda ash).....	58% Na <sub>2</sub> O...	946,879	(D)	(D)	...	...	...	...
2812241									
2812245									
2812300	Sodium hydroxide (caustic soda), total.....	100% NaOH...	646,523	103,288	55,236	( <sup>4</sup> )	276,445	...	<sup>4</sup> 211,554
	Liquid:								
2812361	68-74%.....	.....	57,569	xxx	xxx	xxx	xxx	xxx	xxx
2812365	Other.....	.....	515,855	xxx	xxx	xxx	xxx	xxx	xxx
2812375									
2812367	Dry.....	.....	73,099	xxx	xxx	xxx	xxx	xxx	xxx
2812377									
2819111	Nitric acid.....	100% HNO <sub>3</sub> ...	2,000,383	...	1,392,099	( <sup>5</sup> )	( <sup>5</sup> )	402,047	<sup>5</sup> 206,237
2819131	Ammonia, anhydrous, synthetic.....	100% NH <sub>3</sub> ...	1,324,298	( <sup>5</sup> )	1,168,088	( <sup>5</sup> )	( <sup>5</sup> )	...	<sup>5</sup> 156,210
	Ammonium nitrate:								
2819151	Fertilizer grades, original solution.....	100% NH <sub>4</sub> NO <sub>3</sub> ...	<sup>6</sup> 1,265,302	...	(D)	...	...	(D)	...
2819153	Other grades.....	.....	127,120	...	(D)	(D)	...	113,080	...
	Hydrochloric acid:.....	100% HCL...	396,500	11,961	( <sup>7</sup> )	( <sup>7</sup> )	265,564	...	<sup>7</sup> 118,975
2819341	From salt.....	.....	80,811	xxx	xxx	xxx	xxx	xxx	xxx
2819345	From chlorine.....	.....	120,588	xxx	xxx	xxx	xxx	xxx	xxx
2819347	Byproduct and other.....	.....	195,101	xxx	xxx	xxx	xxx	xxx	xxx
2819361	Hydrofluoric acid.....	100% H <sub>2</sub> F <sub>2</sub> ...	28,845	...	(D)	...	(D)	...	...
2819365									
	Phosphoric acid.....	50% H <sub>3</sub> PO <sub>4</sub> ...	2,665,809	...	(D)	...	...	...	(D)
2919381	From phosphorus.....	.....	977,166	xxx	xxx	xxx	xxx	xxx	xxx
2819385	From phosphate rock.....	.....	1,688,643	xxx	xxx	xxx	xxx	xxx	xxx
	Sodium silicates:								
2819541	Soluble silicate glass.....	Anhydrous ...	139,861	( <sup>5</sup> )	91,351	( <sup>5</sup> )	( <sup>5</sup> )	...	<sup>5</sup> 48,510
2819543	Metasilicate.....	100% Na <sub>2</sub> SiO <sub>3</sub> · 5H <sub>2</sub> O.	21,023	(D)	16,331	...	...	...	(D)
2819565	Sodium sulfate, salt cake, crude.....	Technical...	4,176	...	1,913	( <sup>5</sup> )	...	...	<sup>5</sup> 2,263
2819713	Calcium carbonate, precipitated.....	100% CaCO <sub>3</sub> ...	25,592	(D)	(D)	...	...	...	(D)
2819715	Calcium chloride, flake.....	77-80% CaCl <sub>2</sub>	1,111	(D)	(D)	...	...	...	...
2819762	Phosphorus, elemental.....	Technical...	14,656	...	14,656	...	...	...	...
2819763									
2819764	Phosphorus oxychloride.....	100% POCL <sub>3</sub> ...	2,141	...	(D)	(D)	(D)	...	...
2819766	Phosphorus, trichloride.....	100% PCL <sub>3</sub> ...	7,852	...	(D)	(D)	(D)	...	...

xxx Not applicable.

D Withheld to avoid disclosing the figures for individual companies.

<sup>1</sup>For additional detail, see text.<sup>2</sup>Total for gas includes quantities liquefied while those for net exclude these quantities.<sup>3</sup>Includes total for Industry 2822 as well as 68,420 short tons consumed by establishments classified in Industry 2611, Pulp Mills.<sup>4</sup>Includes total for Industry 2822 as well as 50,859 short tons consumed by establishments classified in Industry 2611, Pulp Mills, and 2612, Paper and Paper Board Mills.<sup>5</sup>Includes data for Industries 2812, 2822, and 2829.<sup>6</sup>Includes quantities converted to solid, the production of which totaled 863,640 short tons.<sup>7</sup>Includes totals for Industries 2819 and 2822.



## MANUFACTURES—INDUSTRY STATISTICS

Table 7C.—TOTAL CONSUMPTION OF SELECTED CHEMICALS BY THE INDUSTRIAL INORGANIC CHEMICAL INDUSTRIES 1954 AND 1947

Represents quantities purchased (see Table 7A) as well as produced and consumed (see Table 7B) by establishments classified in Industries 2811, 2812, and 2819

Description of materials	Basis	Quantity	
		1954 (Short tons)	1947 (Short tons)
Sulfuric acid.....	100% H <sub>2</sub> SO <sub>4</sub> .....	1,956,914	1,162,595
Sulfuric acid sludge (decomposition acid).....	....do.....	569,032	(NA)
Chlorine.....	100% CL <sub>2</sub> .....	506,854	90,219
Sodium carbonate (soda ash).....	58% Na <sub>2</sub> O.....	2,153,616	1,948,150
Sodium hydroxide (caustic soda).....	100% NaOH.....	397,351	193,424
Nitric acid.....	100% HNO <sub>3</sub> .....	1,407,456	865,961
Ammonia.....	100% NH <sub>3</sub> .....	1,358,802	666,968
Hydrochloric acid.....	100% HCL.....	68,361	77,168
Formaldehyde.....	37% HCHO.....	5,540	1,892
Benzol.....	100% C <sub>6</sub> H <sub>6</sub> .....	25,520	14,647
Phenol.....	100%.....	269	276

## INDUSTRIAL INORGANIC CHEMICALS

28A-23

Table 8.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY INDUSTRY SPECIALIZATION AND PRIMARY PRODUCT CLASS SPECIALIZATION, FOR THE UNITED STATES: 1954

(This table presents selected statistics for establishments classified according to their degree of specialization in products primary to the industry. The establishments are classified in two ways: (1) by industry specialization—the degree of specialization in all primary products of the industry; and (2) by product-class specialization—the degree of specialization in the largest product class of the establishment. The degree of "industry specialization" for an establishment represents the ratio of its primary product shipments to its total product shipments, primary and secondary. The degree of "product-class specialization" for an establishment represents the ratio of its largest product class shipments to its total product shipments, primary and secondary. Data are not shown for some industries, product classes, and specialization ranges for a variety of reasons, consequently, detailed figures frequently do not add to the totals. See Introduction for detailed explanation)

Ind. or product class No.	Industry or product class by percent of specialization	Estab- lish- ments, number	All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
2811	SULFURIC ACID (entire industry).....	47	3,805	16,730	2,927	5,922	12,119	66,175	73,094	139,270
	Establishments with:									
	90% or more specialization.....	31	1,380	6,186	1,018	2,023	4,290	29,444	30,196	59,641
28123	ALKALIES AND CHLORINE (entire industry).....	29	20,440	96,047	15,198	31,393	67,890	251,033	148,875	399,908
	Establishments with:									
	90% or more specialization.....	12	4,106	19,320	3,062	6,363	14,048	60,573	33,827	94,400
2812	Sodium hydroxide (caustic soda):									
	All establishments specializing in product class	13	5,961	27,783	4,491	9,232	19,473	97,098	43,307	140,405
	Establishments with:									
	50-74% specialization.....	6	1,149	5,548	730	1,556	3,448	26,277	10,088	36,365
	Less than 50% specialization.....	7	4,812	22,235	3,761	7,676	16,025	70,821	33,219	104,040
2819	INORGANIC CHEMICALS, N.E.C. (entire industry).....	442	97,006	480,798	59,418	121,099	266,260	1,069,335	790,037	1,859,372
	Establishments with:									
	90% or more specialization.....	331	29,637	133,313	22,615	45,950	94,343	384,859	424,871	809,730
	75-89% specialization.....	45	10,305	47,383	6,419	13,615	27,840	101,521	97,997	199,519
	50-74% specialization.....	40	7,439	35,907	5,433	10,838	23,972	116,949	87,167	204,116
28191	Synthetic ammonia nitric acid, and ammonia compound:									
	All establishments specializing in product class	31	12,851	59,861	8,482	17,742	38,089	197,615	99,734	297,350
	Establishments with:									
	90% or more specialization.....	21	4,721	22,466	3,456	6,979	15,420	78,866	42,570	121,437
28192	Chlorine and other bleaching compounds:									
	All establishments specializing in product class	126	3,005	12,927	1,974	3,626	7,149	36,729	46,446	83,175
	Establishments with:									
	90% or more specialization.....	97	1,196	4,763	815	1,523	2,741	22,091	31,141	53,233
	75-89% specialization.....	13	156	558	125	211	344	1,758	2,208	3,966
28193	Inorganic acids except nitric and sulfuric: <sup>1</sup>									
	All establishments specializing in product class	13	590	2,621	466	1,029	1,992	6,755	6,168	12,924
28194	Aluminum compounds:									
	All establishments specializing in product class	36	7,732	35,581	6,124	12,447	26,608	87,014	137,314	224,328
	Establishments with:									
	90% or more specialization.....	29	7,099	32,627	5,643	11,506	24,520	77,767	127,264	205,032
28195	Other potassium and sodium compounds:									
	All establishments specializing in product class	51	7,854	38,115	5,931	12,193	26,824	109,288	124,111	233,399
	Establishments with:									
	90% or more specialization.....	33	2,449	11,898	1,872	3,893	8,475	40,521	57,433	97,954
	75-89% specialization.....	6	1,252	6,641	858	1,764	4,125	20,849	9,928	30,778
	50-74% specialization.....	7	1,393	6,922	1,057	2,203	5,065	18,906	27,869	46,776
	Less than 50% specialization.....	5	2,759	12,653	2,143	4,332	9,158	29,011	28,880	57,891
28197	Other inorganic chemicals:									
	All establishments specializing in product class	137	15,648	69,385	11,873	24,139	47,178	173,719	202,173	375,892
	Establishments with:									
	90% or more specialization.....	89	7,232	31,361	5,776	11,934	23,184	78,166	97,683	175,849
	75-89% specialization.....	16	3,028	13,345	2,147	4,543	8,351	27,768	30,882	58,650
	50-74% specialization.....	25	3,883	17,508	2,848	5,428	11,217	45,151	53,954	99,105
	Less than 50% specialization.....	7	1,504	7,170	1,101	2,232	4,424	22,633	19,654	42,287

<sup>1</sup>About 79 percent of total employment and 92 percent of value of products shipped are accounted for by establishments with 50-89 percent specialization.



# Industrial Organic Chemicals

This report shows 1954 Census of Manufactures statistics for establishments classified into each of the following industries:

Code	Title
2821--	Cyclic (Coal-Tar) Crudes
2822--	Intermediates, and Organic Colors
2823--	Plastics Materials and Elastomers, Except Synthetic Rubber
2824--	Synthetic Rubber
2825--	Synthetic Fibers
2826--	Explosives
2829--	Industrial Organic Chemicals, Not Elsewhere Classified

Establishments primarily engaged in manufacturing drugs and medicines are classified in the Drug and Medicine Industries (Group 283), cosmetics in the Toilet Preparations Industry (2893), wood distillation products and naval stores in the Gum and Wood Chemical Industries (Group 286), organic insecticidal and fungicidal preparations in the Insecticides and Fungicides Industry (2897), and soap and glycerine in that Industry (2841).

Comments concerning the economic and technological characteristics of the industries included in this group appear in the textual material for "Chemicals and Allied Products" (Major Group 28). These comments are pertinent in any analysis of the statistics relating to employment, cost of materials, value added by manufacture, value of shipments, plant specialization, etc. The remarks concerning research activities and the employment data for research personnel should also be particularly noted. Data concerning the number of research workers employed and research expenditures by companies engaged in manufacturing synthetic organic chemicals are compiled by the United States Tariff Commission and published annually in its publication, "Synthetic Organic Chemicals, United States Production and Sales."

Annual data showing quantities produced and shipped and the dollar value of shipments for many synthetic organic chemicals

are published by the United States Tariff Commission. Monthly production figures for a more limited list of organic chemicals are also published by that agency in its Facts for Industry Series 6-2, Report on the Production of Selected Synthetic Organic Chemicals in the United States.

In order to avoid duplicating the reports furnished to the U. S. Tariff Commission for synthetic organic chemicals (except plastics materials) establishments reporting these products to this agency were requested to report dollar values by product classes to the Bureau of the Census including the value of those synthetic organic chemicals shipped as interplant transfers. As indicated in the table below, the dollar value reported to the Census Bureau differ from those reported to the United States Tariff Commission. Other product classes, data for which are reported to the United States Tariff Commission, are primary to other industry groupings: surface active agents, those primarily for detergent purposes as well as sulfonated fats and oils, to Soap, Glycerine, Cleaning, and Polishing Preparations (Group 284), and products from petroleum and natural gas for chemical conversion to the Petroleum Industry (2911). Thus, reference to these products are not contained in this report.

In general, data reported to the Census Bureau are for the value of the product as shipped whether it is a chemical compound or a finished product (preparation or mixture). Sales figures reported to the Tariff Commission represent the value of the organic chemical compound whether it is shipped as such or incorporated in another product. This difference in reporting methods is illustrated by the fact that an establishment manufacturing cellulose acetate, ethylene glycol, or color lakes may report the dollar sales of these products as acetate fiber or antifreeze preparations, or paint products, respectively, to the Census Bureau and as miscellaneous acyclic chemical products and synthetic lakes to the United States Tariff Commission. Thus, in general, the figures published by the Tariff Commission are higher since a portion of organic chemical compounds, not shipped as such, is nevertheless included in the Tariff Commission report.

Some of the differences are also partly explained by differences in definition. For example, the Tariff Commission figure

SHIPMENTS AND INTERPLANT TRANSFERS OF SYNTHETIC ORGANIC CHEMICALS: 1954  
(In millions of dollars)

Code	Product or product class	As reported by--		
		Bureau of the Census		Tariff Commission
		Shipments including interplant transfers	Commercial shipments only	Sales
28210	Tar crudes.....	87	77	236
28221	Intermediates.....	467	316	320
28222	Dyes.....	156	151	160
28223	Synthetic organic pigments, lakes and toners.....	68	11	54
28240	Synthetic rubber (elastomers).....	392	(NA)	426
28294	Synthetic organic chemicals, n.e.c.....	263	234	...
2829431	Rubber processing chemicals.....	61	(D)	62
2829451	Plasticizers.....	99	83	82
2829411	Flavor and perfume materials.....	43	(d)	47
2829471	Bulk surface active agents (penetrant, wetting agents, etc.) other than detergents and sulfonated oils.....	55	54	(NA)
28292	Miscellaneous cyclic chemical products.....	86	77	77
28293	Miscellaneous acyclic chemical and chemical products.....	1,569	1,134	1,136
28295	Pesticides and other organic agricultural chemicals.....	97	90	125



for synthetic (chemical) rubber includes data for elastomers which were reported to the Census Bureau as plastics materials (e.g. polyvinyl types). Reports to the Census Bureau are based on plant reports and the dollar shipment figures represent the valuation (f.o.b. plant) of all goods physically shipped from this producing site. Thus the Census data include products shipped on consignment and interplant transfers (separate measures are shown in Table 6A) while the Tariff Commission data represent sales on a company basis by primary producers only when accompanied by passage of title.

The Tariff Commission also secures product data from laboratories which are primarily service organizations, whereas the product data from these establishments are excluded from the Census of Manufactures. On the other hand, the census totals include reports for primary producers included in the Tariff Commission figures, as well as reports for blenders and plants operating under Government contract which are outside the scope of the Tariff survey.

In addition to the above, there are specific reasons why the figures for certain product classes published by the two agencies differ. For example, the Tariff Commission total for tar crudes includes data furnished to the Coal Economics Division of the United States Bureau of Mines by coke oven operators, and data furnished to the American Gas Association by producers of water-gas and oil-gas tar. The Census Bureau total appearing in this report does not include these figures since the data for byproduct ovens are classified and shown in Industry 2932, Byproduct Coke Ovens, and establishments operating medium and low temperature carbonization plants and retorts are excluded from the Census of Manufactures.

The data for some product groupings are in closer agreement than others to the degree that the concepts of plant and company, and specialization and integration approach identities. In other instances, apparent agreement is the result of compensating figures (see Industries 2821, 2822, and 2829 for additional explanations). Despite these differences in the two sets of data, they should be considered as complementary; those of the Census Bureau represent the shipment values by plants classified in manufacturing industries for groups of synthetic organic chemicals in the form in which they are actually shipped, and those of the Tariff Commission, represent company sales and production for a detailed list of products.

#### 2821--Cyclic (Coal-Tar) Crudes

This industry comprises establishments primarily engaged in manufacturing crudes from coal-tar. Such crudes include (1) light-oil products such as benzene and toluene; (2) coal-tar acids such as creosols and cresylic acid; and (3) products of medium and heavy oil such as creosote oil, naphthalene, anthracene, and their higher homologues, and tar. Other products manufactured from coal tar included in this industry are: xylene, solvent naphtha, road tar, and pitch of tar. Establishments primarily engaged in manufacturing coal-tar crudes in byproduct coke ovens are classified in Industry 2932, Byproduct Coke Ovens, and petroleum refineries which produce such products in Industry 2911, Petroleum Refining.

The value of shipments of Industry 2821, Cyclic (Coal-Tar) Crudes, in 1954 totaled \$77 million. This included shipments of cyclic (coal-tar) crudes (primary products) valued at \$63 million, shipments of secondary products valued at \$14 million, and a negligible amount for miscellaneous receipts.

Industry 2821 shipments of cyclic (coal-tar) crudes in 1954 represented 82 percent of its total product shipments (primary and secondary). In 1947, this primary product specialization ratio was 85 percent. Secondary products shipped by this industry in 1954 consisted mainly of asphalt and tar roofing, siding and felts, \$4 million; and other secondary products including cyclic (coal-tar) intermediates and industrial product finishes totaling \$10 million.

Industry 2821 shipments of cyclic (coal-tar) crudes in 1954 represented 72 percent of these products, valued at \$87 million, shipped by all industries. This coverage ratio in 1947 was 78 percent. Other industries shipping cyclic (coal-tar) crudes in 1954 consisted mainly of Industry 2823, Plastic Materials; Industry 2822, Intermediates, and Organic Colors; and Industry 2952, Roofing Felts and Coatings.

The establishments classified in Industry 2821 are frequently known as "tar distillers." They are distinguished from those classified in Industry 2932, Byproduct Coke Ovens, or in Industry 2911, Petroleum Refining, by the fact that the plants

classified in Industry 2821 purchase crude tars and condensed liquids, products produced in Industries 2932 and 2911 from coal or crude petroleum, and also do not produce products necessarily associated with coke ovens or petroleum refineries. Although tar distillers are purchasers of crude tar and are dependent upon the variables affecting the supply of these materials, such as the activity of the steel industry or the consumption of manufactured gas for industrial use, the distillation equipment used is similar in all the industries manufacturing coal tar fractions. This equipment, however, may vary and ranges from the older fire-heated batch stills to modern continuous pipe stills.

Distillation of coal tar principally yields four fractions: light oils (benzene, toluene and homologues), middle oils or creosote oils containing naphthalene and tar acids (phenol, cresols, etc.), anthracene oil, and pitch. The absolute and relative quantities produced by establishments classified in this industry have varied markedly. For example, in 1947, the distillers accounted for about 69 percent of the total crude naphthalene produced, and coke oven operators, the remainder; whereas in 1954 the output by tar distillers was about 59 percent of the total. An increasing proportion of products produced by tar distillers are being derived from petroleum. For example the quantities of toluene produced by each type of operator are shown below.

Type of operator	1947	1954
(In thousands of gallons)		
Tar distillers.....	6,966	2,917
Coke oven operators.....	26,346	33,383
Petroleum operators.....	27,378	122,885
Total, all grades.....	60,740	159,185

Source: U.S. Tariff Commission

The majority of the plants classified in Industry 2821 are owned by companies which either operate byproduct coke ovens or other establishments utilizing the cyclic crudes produced in these tar distillation plants. The tendency among these plants is to fabricate these cyclic coal crudes into intermediates or other end products. Therefore, shipments in more recent years contain a greater "product mix" than formerly.

As stated previously, no attempt was made by the Census Bureau to secure commodity detail for the tar crudes manufactured by tar distillers since this information is compiled and published by the United States Tariff Commission in Synthetic Organic Chemicals, United States Production and Sales. Direct comparisons between the product class data reported to the Census Bureau and the product information reported to the United States Tariff Commission may not be made since, for disclosure reasons, the statistics published by the Tariff Commission do not show all products produced by tar distillers as distinguished from products produced by petroleum refineries or others.

#### 2822--Intermediates and Organic Colors (Full Standard Industrial Classification Title, Intermediates, Dyes, Color Lakes and Toners)

This industry comprises establishments primarily engaged in manufacturing cyclic intermediates, dyes, color lakes, and toners. Important products of this industry include (1) derivatives of benzene, toluene, phenol, aniline, nitrobenzene and other cyclic intermediates; (2) classified and unclassified dyes such as azo and anthraquinone, and food, drug, and cosmetic dyes; and (3) lakes and extended colors, toners, or full strength organic colors and reduced toners. Establishments primarily engaged in manufacturing inorganic color pigments are classified in Industry 2852, Inorganic Color Pigments; natural dyeing materials in Industry 2865, Natural Tanning and Dyeing Materials; and natural food colors in Industry 2095, Flavorings. For a detailed list of primary products of Industry 2822, refer to Table 6A, product codes 2822111 to 2822311.

The value of shipments of Industry 2822 in 1954 totaled \$715 million. This included shipments of primary products (intermediates, dyes, color lakes and toners) valued at \$455 million, shipments of other products generally derived from intermediates and classified as secondary products valued at \$258 million, and miscellaneous receipts (mainly contract work on materials owned by others) of \$2 million.

Receipts for merchandising (products bought and resold without further manufacture or processing) valued at \$27 million are excluded from the \$715 million value of shipments of Industry 2822. Data relating to these merchandising receipts are also excluded from the cost of materials and value added by manufacture, but these activities are reflected in other detailed industry statistics, such as employment and inventories.

Industry 2822 shipments of intermediates, color lakes and toners in 1954 represented 64 percent of its total product shipments (primary and secondary). Secondary products shipped by this industry in 1954 consisted mainly of industrial inorganic chemicals, n.e.c., \$31 million; industrial organic chemicals, n.e.c.; \$82 million; inorganic and organic medicinal chemicals, \$30 million; and inorganic color pigments, \$16 million.

Industry 2822 shipments of intermediates, lakes, and toners for sale or interplant transfers in 1954 represented 66 percent of these products, valued at \$691 million, shipped by all industries. Other industries, mainly Industry 2829, Industrial Organic Chemicals, and Industry 2823, Plastics Materials, shipped intermediates, lakes, and toners totaling \$236 million. Industry 2822 accounted for 73 percent of all dye shipments compared with the coverage ratio of 62 percent for intermediates.

The statistics for this industry appearing in the 1947 Census of Manufactures and Annual Survey of Manufactures Volumes were not shown separately, but were included with the data for Industry 2829, Industrial Organic Chemicals, Not Elsewhere Classified. Selected 1947 data have been retabulated for comparability with 1954 statistics.

The economic union of the synthetic compounds called intermediates, dyes, lakes and toners is not primarily due to similarities of processing but results from the advantages of carrying on the manufacturing process from the raw materials to the finished products in the same establishment. The synthetic organic compounds, known as "intermediates," are not only a link between the low value products of the distillation of coal tar (products of Industries 2821, 2911 and 2932) and the valuable dyes but also one with other valuable organic chemicals. Thus, plants producing phenol also produce phenolic resins (plastics materials), or producing styrene, produce synthetic rubber or similar complex organic compounds. The United States Tariff Commission, which compiles product detail for cyclic intermediates, states that in 1947 about 45 percent of the total output of these products was consumed in the producing plants in the manufacture of more advanced intermediates and finished products. In 1954, the comparable percentage was about 66. Conversely, establishments classified in Industry 2829, Industrial Organic Chemicals, also produce sizeable quantities of intermediates, dyes, color lakes, and toners.

In addition to the remarks contained in the general discussion of Major Group 28, the following observations may be of help in the analysis of Census data for these groups of products.

(1) Many products classified as intermediates represent successive steps in production.

(2) Some products such as phenol are produced commercially by two or more different processes, or are made from materials derived from different sources. For example, in recent years an increasing amount of cyclic intermediates has been obtained from petroleum or natural gasoline rather than from cyclic coal tars. In addition, newer and more continuous processes are being introduced.

(3) The "product mix" of these plants includes some inorganic chemicals either because these chemicals are required in the production of intermediates by such processes as nitration, reduction, or halogenation, or result as a co-product or byproduct in the production of products classified as primary to Industry 2819, such as byproduct hydrochloric acid.

(4) Also, when one product is produced, a second is also produced as, for example, when one ton of oxyphenine yellow 26 is made, one ton of primuline, another yellow dye, is simultaneously produced.

(5) Since these cyclic intermediates may be used to manufacture many products, they are influenced by changing market conditions. For example, aniline is usually associated with dye manufacture but, in wartime, demand for aniline rises since it is an important material for the manufacture of diphenylamine used in smokeless powder and in the manufacture of tetryl.

(6) While the vast number of the establishments classified in this industry are prime producers, a number of plants included in this industry are blenders, producing finished dyes or organic pigments from purchased synthetic products.

## 2823--Plastics Materials and Elastomers, Except Synthetic Rubber

This industry comprises establishments primarily engaged in manufacturing plastics materials in the form of sheets, rods, tubes, granules, powders, or liquids for use in further manufacturing. Important products of this industry include: (1) condensation plastics, such as alkyd, phenolic, and urea resins; (2) polymerization plastics, except fibers, such as polyvinyl alcohol, ester, halide, and copolymer resins; polyhexamethylene-diamine adipamide resins; (3) protein plastics such as casein, soybean, and coffee bean; (4) cellulose plastics, regenerated cellulose sheets, and vulcanized fiber; (5) carbohydrate plastics; and (6) synthetic elastomers such as plasticized polyvinyl alcohol, polyvinyl chloride, polyisobutylene elastomers and other similar products. Establishments primarily engaged in manufacturing rayon and other synthetic fibers are classified in Industry 2825, Synthetic Fibers, synthetic rubber in Industry 2824, Synthetic Rubber; artificial leather in Industry 2295, Coated Fabrics, Except Rubberized; and sensitized and non-sensitized photographic film in Industry 3861, Photographic Equipment. Establishments primarily engaged in manufacturing unsupported film from purchased resins are classified in Industry 3971, Plastics Products, N.E.C.

Minor changes in the content of Industry 2823 have been made since 1947. The principal one relates to plants primarily engaged in manufacturing caps, bands, and sponges from regenerated cellulosic materials which are now classified in this industry since caps and bands are generally made in the same plants manufacturing sheet material from regenerated cellulose. In 1947, such plants were classified in Industry 2825, Synthetic Fibers. Selected 1947 data have been retabulated for comparability with 1954. For a detailed list of primary products of Industry 2823, refer to Table 6A, product codes 2823111 to 2823698.

The value of shipments of Industry 2823, Plastics Materials and Elastomers, in 1954 totaled \$1,231 million. This included shipments of primary products (plastics materials and elastomers, except synthetic rubber), valued at \$1,099 million, shipments of secondary products valued at \$127 million, and miscellaneous receipts (mainly contract work on materials owned by others and scrap) of \$5 million.

Industry 2823 shipments of plastics materials and elastomers materials in 1954 represented 90 percent of its total product shipments (primary and secondary). In 1947, this primary product specialization ratio was 92 percent. Secondary products shipped by this industry in 1954 consisted mainly of chemical specialties, \$2 million; cyclic intermediates, \$9 million; synthetic organic chemicals, n.e.c., \$43 million; glues and adhesives, \$7 million; and fabricated plastics products, \$8 million.

Industry 2823 shipments of plastics materials and elastomers in 1954 represented 75 percent of these products, valued at \$1,463 million, shipped by all industries. This coverage ratio in 1947 was 77 percent. Other industries, mainly Industry 2829, Industrial Organic Chemicals, N.E.C., Industry 2851, Paints and Varnishes, Industry 3099, Rubber Industries, N.E.C., and Industry 3971, Plastics Products, N.E.C., shipped plastics materials and elastomers totaling \$364 million in 1954.

The industrial processes differ with the type of plastics materials produced. Many of these plants specialize in the manufacture of a specific grouping of plastics materials and integration to finished plastic products at the same plant site is generally not characteristic of the plants classified in this industry. While a portion of these plastics materials are captively used for finished products produced in other plants of the same company, no measurements are provided since separated data for interplant transfers were not requested.

In interpreting the statistics relating to size of establishments, consideration should be given to the fact that the industry totals include establishments which purchase plastics materials and reformulate them according to their own or customer specifications. Generally, such establishments are relatively small.

Information concerning the consumption of specified materials consumed by the plastics materials industry is shown in Table



7, Materials Consumed, By Kind. Information was not compiled indicating the quantities produced from petrochemicals. However, information concerning the production of petroleum polymer resins and the basic materials used to produce intermediates consumed in the manufacture of plastics materials may be derived from data published by the U. S. Tariff Commission.

The quantity data shown in Table 6A, Quantity and Value of Products, are on the basis indicated respectively for each commodity. In general, these bases are identical with those used by the United States Tariff Commission in collecting its monthly figures as shown in its Facts for Industry Series 6-10, Production and Sales of Plastics and Resin Materials.

#### 2824--Synthetic Rubber

This industry comprises establishments primarily engaged in manufacturing synthetic rubber by polymerization or copolymerization. Important products of this industry include butadiene styrene type (GR-S and Buna S), butadiene-acrylonitrile type (GR-N), and all other vulcanizable elastomers. (An elastomer for the purpose of this classification is a rubber-like material which will stretch 150 percent or more and return with force to approximately its original shape and position.) Establishments primarily engaged in manufacturing nonvulcanizable elastomer materials are classified in Industry 2823, Plastics Materials and Elastomers, Except Synthetic Rubber, and synthetic organic rubber-processing chemicals (accelerators and anti-oxidants) are classified in Industry 2829, Industrial Organic Chemicals, N.E.C. For a detailed list of primary products of Industry 2824, refer to Table 6A, product codes 2824011 to 2824051.

The value of shipments of Industry 2824, Synthetic Rubber, in 1954 totaled \$361 million. This included shipments of synthetic (chemical) rubbers (primary products) valued at \$351 million, shipments of secondary products valued at \$8 million, and miscellaneous receipts (mainly scrap and receipts for research and development work) of \$2 million.

Industry 2824 shipments of synthetic (chemical) rubbers and other synthetic elastomers in 1954 represented 98 percent of its total product shipments (primary and secondary). In 1947, this primary product specialization ratio was 96 percent. Secondary products, mainly synthetic organic chemicals, n.e.c., and synthetic resins, shipped by plants classified in this industry in 1954 totaled \$8 million.

Industry 2824 shipments of synthetic (chemical) rubbers in 1954 represented 90 percent of these products, valued at \$392 million, shipped by all industries. This coverage ratio in 1947 was 89 percent. About \$23 million of synthetic (chemical) rubbers was also shipped in 1954 by establishments classified in Industry 2829, Industrial Organic Chemicals, N.E.C.

As indicated above, the plants manufacturing synthetic (chemical) rubbers have a high degree of specialization. A principal reason for this is that the bulk of the 1947-1954 output was produced in Government-owned plants which were privately managed for the account of the Reconstruction Finance Corporation and successor agencies. These plants were sold during 1955. The most important products are the butadiene-styrene type (S-type, Buna S) primarily used in the production of tire casings and butyl or (GR-1) rubber used in the manufacture of inner tubes. The output and prices of these rubbers were controlled by this Governmental agency and by legislation (Rubber Act of 1948 and Amendments), which authorized the President to exercise controls to insure consumption of synthetic rubber of specified amounts. In addition to this legislation which was effective until May 1, 1955, preferences for synthetic rubber for certain uses, and price factors favored the growing use of synthetic rubber. These and other chemical rubbers, such as neoprene and N-types (oil resistant types), are now all manufactured in non-Governmental plants.

Many of the former Government-owned facilities are located adjacent to petroleum refineries. Present ownership is by oil or rubber companies. Their activities are limited to the production of synthetic rubber and/or butadiene feed stocks, while the non-Government plants manufacturing other types of rubber produce products other than synthetic rubber, which classify some of them in Industry 2829, Industrial Organic Chemicals, N.E.C. However, all of the plants have a relatively high degree of homogeneity and the data shown in this report do not distinguish among plants on the basis of ownership.

The raw materials used during 1947 and 1954 for GR-S, namely butadiene and styrene, and for the butyl rubber, namely isobutylene, were primarily derived from petroleum products. These raw materials are also used as high octane components of aviation and motor gasoline as well as for plastics materials. Other rubbers are made from other products, for example, neoprene from acetylene. As indicated in Table 7, Materials Consumed, by Kind, the data are primarily limited to the quantities consumed in the manufacture of the poly butadiene styrene type of rubber.

Detailed product statistics for synthetic rubbers based upon chemical composition are compiled and published by the United States Tariff Commission. Whereas the quantity figures reported to the Tariff Commission do not include the weight of the carbon black included in the rubber, Census figures show the unduplicated quantities produced and shipped with and without carbon black. Monthly data showing production, consumption, and stocks of synthetic rubbers by kind are published by the Business and Defense Services Administration, United States Department of Commerce. Statistics showing the 1954 consumption of synthetic rubbers by product groupings for establishments classified in the Rubber Industries, Rolling, Drawing, and Alloying of Non-Ferrous Metals Industries, and Insulated Wire and Cable Industry appear in the report for Rubber Products (Major Group 30) and those containing the product statistics for the other products.

#### 2825--Synthetic Fibers

This industry comprises establishments primarily engaged in manufacturing rayon, nylon, and other synthetic fibers to be used as materials for further manufacturing. Important products of this industry include fibers of cellulose acetate, regenerated cellulose, polyvinyl ester polyvinylidene chloride, vinyl chloride, polymeric amide, and protein. Textile mills primarily engaged in throwing, spinning, and weaving rayon, nylon, or other synthetic fibers are classified in Major Group 22, Textile mill products, and glass fiber, stock and roving are classified in Industry 3229, Pressed and Blown Glassware, N.E.C.

Minor changes in the content of Industry 2825 have been made since the 1947 census to conform with the Standard Industrial Classification. Cellulose caps, bands, sponges, etc., previously included in this industry are now included in Industry 2823, Plastics Materials; and synthetic sausage casings, in Industry 2014, Sausage Casings. Selected 1947 data have been retabulated for these changes for comparability with 1954. For a detailed list of primary products of this industry, refer to Table 6A, product codes 2825111 to 2825385 (codes 2825311 through 2825385 are represented by 28253XX).

The value of shipments of Industry 2825, Synthetic Fibers, in 1954 totaled \$1,241 million. This included shipments of primary products (synthetic fibers) valued at \$1,190 million, shipments of secondary products valued at \$43 million, and miscellaneous receipts (mainly scrap and salable refuse) of \$8 million.

This industry's shipments of synthetic fibers in 1954 represented 96 percent of its total product shipments (primary and secondary). In 1947, this primary product specialization ratio was 97 percent. Secondary products shipped by this industry in 1954 consisted mainly of sodium compounds, \$4 million; and other secondary products including cellulose plastics materials, synthetic resins, and organic chemicals, totaling \$39 million.

Industry 2825 shipments of synthetic fibers in 1954 represented 98 percent of the synthetic fibers, valued at \$678 million, shipped by all industries. This coverage ratio in 1947 was also 98 percent.

The principal types of cellulosic fibers are viscose, cuprammonium, and acetate yarns. The statistics relating to the former two yarns are combined in Tables 6A, 6B and 8, to prevent disclosing the operations of the one plant still utilizing the cuprammonium process. Rayon and acetate yarn plants are relatively large and several of them are operated in conjunction with other company establishments which have been classified in the tire cord, weaving and knitting industries. Only one establishment produces viscose and rayon yarn at the same site. Some plants manufacturing acetate rayon also produce organic chemicals some of which are captively used and the remainder is either shipped to other acetate yarn plants of the same company or for sale to other companies. The data shown below exclude information for "pilot" plants producing small amounts of synthetic fibers on an experimental basis.

The majority of plants manufacturing noncellulosic synthetic fibers other than glass fibers are owned by firms engaged in manufacturing cellulosic fibers or by prominent organic chemical producers. The output has grown more than 6 fold from 44 million pounds in 1947, to 290 million pounds in 1954 for such fibers.

The material-product relationships differ, of course, with the product output but within such product groupings as viscose yarns or acetate yarns, this relationship does not vary much. In those instances where acetate plants purchased or received cellulose acetate flake rather than pulp, such respondents were requested to convert these figures to a basic raw material basis. The consumption data for this industry shown in Table 7 are a relatively complete list of materials for the viscose and acetate fibers. The materials consumed for other synthetic fibers are generally not specified but included in "All other materials."

#### 2826--Explosives

This industry comprises establishments primarily engaged in manufacturing explosives such as sporting powder, blasting powder, high explosives, nitrated carbohydrates, safety fuses, and blasting and detonating caps. Establishments primarily engaged in manufacturing ammunition for small arms are classified in Industry 1961, Small Arms Ammunition; and in Group 192, Artillery Ammunition; and fireworks and pyrotechnics such as flashlight bombs, flares (all kinds) railroad torpedoes, and fuses (highway, marine and railroad) in Industry 3985, Fireworks and Pyrotechnics.

Establishments primarily engaged in shooting wells and also engaged in manufacturing nitroglycerine are included in the Census of Minerals. For a detailed list of primary products of Industry 2826, refer to Table 6A, product codes 2826011 to 2826071.

The value of shipments of Industry 2826, Explosives, in 1954 totaled \$390 million. This included shipments of primary products (explosives) valued at \$167 million, shipments of secondary products valued at \$9 million, and miscellaneous receipts which include the value of explosives produced in Government-owned, privately operated plants of \$213 million.

Industry 2826 shipments of explosives in 1954 represented 98 percent of its total product shipments (primary and secondary). In 1947, this primary product specialization ratio was 87 percent. Secondary products shipped by this industry in 1954 consisted mainly of synthetic ammonia, nitric acid and ammonium compounds, \$5 million, and miscellaneous other products including sulfuric acid, \$4 million.

Industry 2826 shipments of explosives in 1954 represented 91 percent of the explosives, valued at \$184 million, shipped by all industries. This coverage ratio in 1947 was 99 percent.

The data subsequent to 1947 shown in the tables include information for Government-owned plants operated by private firms for the account of the Federal Government, but exclude information for Government-owned and/or operated plants. Since the capital expenditures made by these privately operated plants are paid for by current billings to the United States Government, these amounts are excluded from the statistics shown in this report which represent expenditures for privately owned facilities. The detailed product statistics appearing in Table 6A, Quantity and Value of Products, represent only the amounts and type of explosive produced by privately owned and privately operated plants. On the other hand, the data for materials consumed (Table 7) include figures for all plants classified in this industry.

The plants included in Industry 2826 vary in scope from those preparing only nitroglycerine to highly integrated establishments which produce their own basic chemicals such as sulfuric and nitric acids. For varied reasons the latter plants also ship inorganic acids and other organic compounds used in the manufacture of explosives. Establishments engaged in well shooting only are excluded from this industry since such establishments are included in the Census of Mineral Industries under "Oil and gas field services performed by contractors." No data are shown for the value of nitroglycerine used in shooting wells since most manufacturers cannot report values for this product separately from "Other receipts."

The products classified as primary to this industry exclude the rocket fuels which are classified as organic and inorganic chemicals, and pyrotechnic mixtures, which are classified in the Fireworks Industry (3985), and other products associated with chemical warfare, but include data for "charges" used to ignite fuels for jet propulsion.

Data showing the quantities of black blasting powder, pellet and granular, of "permissibles" and of "high explosives, except permissibles" sold for consumption are published by the United States Bureau of Mines. The figures appearing in this report differ slightly from those published by the United States Department of the Interior, Bureau of Mines, because of minor reporting differences.

#### 2829--Industrial Organic Chemicals, Not Elsewhere Classified

This industry comprises establishments primarily engaged in manufacturing industrial organic chemicals, not elsewhere classified. Important products of this industry include: (1) non-cyclic organic chemicals such as acetic, chloroacetic, adipic, formic, oxalic and tartaric acids and their metallic salts; chloral, formaldehyde and methylamine; (2) solvents such as amyl, butyl, and ethyl alcohols; methanol; ethylene glycol; amyl, butyl, and ethyl acetates; ethyl ether, ethylene glycol ether, and diethylene glycol ether; acetone, carbon disulfide, and carbon tetrachloride; (3) synthetic perfume and flavoring materials such as coumarin, methyl salicylate, saccharin, citral, citronellal, synthetic geraniol, ionone, terpineol, and synthetic vanillin; (4) rubber chemicals such as accelerators and antioxidants; (5) plasticizers such as synthetic camphor, phthalates and tricresyl and triphenyl phosphates; (6) synthetic tanning materials; and (7) chemical-warfare gases. Establishments primarily engaged in manufacturing organic medicinal chemicals are classified in Group 283, Drugs and Medicines, soap and glycerine in Industry 2841, Soap and Glycerine, essential oils in Industry 2892, Essential Oils; wood distillation products, naval stores and natural dyeing and tanning materials in Group 286, Gum and Wood Chemicals; and insecticides, fungicides, and other agricultural pesticidal preparations, in Industry 2897, Insecticides and Fungicides. Distilleries engaged in manufacturing grain alcohol for beverage purposes are classified in Industry 2085, Distilled Liquor, Except Brandy.

While the statistics for Industry 2829 appearing in the 1947 Census of Manufactures include data for plants classified in Industry 2822, Intermediates, and Organic Colors, selected 1947 statistics have been retabulated for comparability with 1954. For a detailed list of primary products of Industry 2829, refer to Table 6A, product codes 2829111 to 2829671.

The value of shipments of Industry 2829, Industrial Organic Chemicals, N.E.C., in 1954 totaled \$2,199 million. This included shipments of primary products (industrial organic chemicals, n.e.c.) valued at \$1,676 million, shipments of secondary products valued at \$514 million, and miscellaneous receipts (mainly nonmanufactured products and scrap) of \$9 million.

Receipts for merchandising (products bought and resold without further manufacture or processing) valued at \$46 million are excluded from the \$2,199 million value of shipments of Industry 2829. Data relating to these merchandising receipts are also excluded from the cost of materials and value added by manufacture, but these activities are reflected in other detailed industry statistics, such as employment and inventories.

Industry 2829 shipments of industrial organic chemicals in 1954 represented 77 percent of its total product shipments (primary and secondary). Secondary products shipped by this industry in 1954 consisted mainly of inorganic chemicals, \$55 million; plastics materials, chlorine and sodium hydroxide, \$27 million; intermediates, \$112 million; medicinal chemicals, \$16 million; synthetic rubber, \$23 million; and liquid petroleum gases, \$24 million.

Industry 2829 shipments of miscellaneous organic chemicals, n.e.c. (primary products) in 1954 represented 80 percent of these products, valued at \$2,082 million, shipped by all industries. Other industries shipping industrial organic chemicals, n.e.c., consisted mainly of Industry 2822, Intermediates and organic colors, \$92 million; Industry 2819, Inorganic Chemicals, N.E.C., \$31 million; Industry 2812, Alkalies and Chlorine, \$29 million; and Industry 2823, Plastics Materials, \$57 million.



The range of products and the degree of integration of the plants classified in Industry 2829 vary widely. Because of the heterogeneous products and processes embraced, generalizations are difficult and reference should be made to the general discussion of Industry Group 282. Additional remarks may also be found in the section dealing with Industry 2822. Thus, the industry is composed of establishments which vary widely in the chemical processes employed, 'product mix,' and in the materials consumed to manufacture the end products.

The principal products generally result from nitration, esterification, amination by reduction, amination by ammonolysis, halogenation, sulfonation, hydrolysis, hydrogenation, alkylation, and condensation. As a result one finds these plants to be consumers and frequently producers of inorganic chemicals used in such processes. In addition, for reasons indicated in the general discussion of Industry Group 282, these plants are characterized by vertical integration both towards the raw materials and towards the more finished packaged consumer goods.

The rapid growth of this branch of the chemical industry is resulting in new geographic areas arising as important loca-

tions. This is particularly noticeable in the South Central and Pacific regions. The availability of raw materials, particularly petroleum gases, the industrialization of those areas, and their growth as consuming markets are causes of these shifts.

The list of materials shown as consumed in Table 7, Materials Consumed By Kind, are only representative of a small portion of the varied chemicals consumed. As indicated above, a considerable proportion of 'intermediates' are captively produced but in addition are purchased or received from other producing plants of the same company. The statistics appearing in this table are further limited by the fact that respondents were not requested to furnish data, if the amount of the specified chemical purchased or received totaled less than \$5,000. The consumption information reported for the inorganic chemicals include materials used in producing other physical modifications of the same chemicals. Data shown in Table 7 of this report as well as in the one on Inorganic Chemicals (MC-28A) have been adjusted to exclude quantities so used.

The general statistics (employment, payrolls, value of shipments, cost of materials, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products, and, for that matter, their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (Tables 1-4) with product statistics (Table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the 'product mix' is indicated in Table 5A which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry made as secondary products by establishments classified in other industries.

## INDUSTRIAL ORGANIC CHEMICALS

28B-7

Table 1.—GENERAL STATISTICS FOR THE UNITED STATES: 1954 AND EARLIER YEARS

(For explanation of column captions see Introduction)

Industry and census year	Establishments, number	All employees		Production workers		Value added by manufacture <sup>2</sup> (\$1,000)	Cost of materials, etc. <sup>3</sup> (\$1,000)	Value of shipments <sup>4</sup> (\$1,000)
		Number <sup>1</sup>	Payroll (\$1,000)	Number <sup>1</sup>	Wages (\$1,000)			
Cyclic (coal-tar) crudes (S.I.C. 2821):								
1954.....	43	1,925	8,246	1,488	5,620	22,179	54,974	77,154
1953 <sup>5</sup> .....	(NA)	2,235	9,804	1,758	7,024	27,800	69,196	96,996
1952 <sup>5</sup> .....	(NA)	2,360	9,156	1,942	6,963	24,973	65,142	90,115
1950 <sup>5</sup> .....	(NA)	2,046	7,104	1,640	5,412	22,832	55,415	78,247
1949 <sup>5</sup> .....	(NA)	2,025	7,381	1,600	5,012	22,376	46,284	68,660
1947.....	46	1,972	5,490	1,633	4,527	17,071	43,568	60,639
1939 <sup>6</sup> .....	45	(NA)	(NA)	1,528	2,110	11,433	21,368	32,801
Intermediates and organic colors (S.I.C. 2822):								
1954.....	107	32,748	165,511	22,297	99,416	362,305	353,296	715,602
1947.....	93	33,603	115,076	25,539	80,473	239,771	218,781	478,552
1939 <sup>6</sup> .....	73	(NA)	(NA)	9,741	15,976	79,301	60,156	139,457
Plastics materials (S.I.C. 2823):								
1954.....	206	41,145	201,487	28,388	122,188	583,224	648,224	1,231,448
1953 <sup>5</sup> .....	(NA)	43,017	200,088	31,333	131,332	562,854	691,648	1,254,502
1952 <sup>5</sup> .....	(NA)	37,179	168,022	26,758	108,543	472,899	600,346	1,073,245
1951 <sup>5</sup> .....	(NA)	37,280	155,987	27,469	103,057	472,583	607,887	1,080,470
1950 <sup>5</sup> .....	(NA)	30,023	114,577	22,387	76,530	385,801	406,029	791,830
1949 <sup>5</sup> .....	(NA)	29,174	10,683	21,403	70,239	267,170	324,904	592,074
1947.....	123	28,627	91,397	21,810	63,295	197,558	280,773	478,331
1939 <sup>7</sup> .....	41	(NA)	(NA)	7,191	10,111	39,742	43,582	83,324
1937 <sup>6</sup> .....	34	(NA)	(NA)	7,283	9,482	31,242	35,713	66,955
Synthetic rubber (S.I.C. 2824):								
1954.....	21	8,531	44,502	6,178	30,214	152,906	208,187	361,093
1953 <sup>5</sup> .....	(NA)	9,952	50,007	7,590	34,813	150,992	291,337	442,329
1952 <sup>5</sup> .....	(NA)	9,758	46,339	7,457	33,511	167,890	312,004	479,894
1951 <sup>5</sup> .....	(NA)	9,893	43,469	7,597	31,354	138,327	345,760	484,087
1950 <sup>5</sup> .....	(NA)	5,855	24,238	4,557	17,632	109,081	137,469	246,550
1949 <sup>5</sup> .....	(NA)	5,605	(NA)	4,397	(NA)	64,787	119,667	184,454
1947 <sup>8</sup> .....	20	7,663	25,774	5,721	18,381	97,356	137,844	235,200
Synthetic fibers (S.I.C. 2825):								
1954.....	46	61,105	261,753	45,894	174,376	717,226	523,713	1,240,942
1953 <sup>5</sup> .....	(NA)	71,861	289,620	53,636	194,730	708,245	542,947	1,251,192
1952 <sup>5</sup> .....	(NA)	64,623	255,775	48,340	174,648	703,977	498,107	1,191,382
1951 <sup>5</sup> .....	(NA)	72,899	264,817	56,191	186,470	711,395	502,653	1,203,846
1950 <sup>5</sup> .....	(NA)	71,880	242,156	55,503	171,947	716,854	416,905	1,123,557
1949 <sup>5</sup> .....	(NA)	67,358	215,709	52,712	164,508	518,639	369,573	920,106
1947.....	38	69,683	199,910	57,857	150,380	433,285	262,615	705,271
1939.....	30	55,471	75,248	48,332	60,030	168,606	78,460	247,066
1937.....	33	60,270	76,870	55,098	65,291	174,081	80,616	254,697
1935.....	32	54,157	58,617	50,550	50,693	120,647	64,513	185,160
1933.....	34	46,701	43,708	44,306	38,613	112,901	44,031	156,932
1931.....	32	(NA)	(NA)	38,735	38,231	96,451	36,181	132,632
1929.....	29	41,384	50,466	39,106	44,697	116,211	33,335	149,546
1927.....	19	27,696	32,643	26,341	28,649	84,140	25,748	109,838
1925.....	14	20,097	25,448	19,128	22,976	69,583	18,478	88,061
1923 <sup>6</sup> .....	8	(NA)	(NA)	14,401	16,384	46,958	12,094	59,052
Explosives (S.I.C. 2826):								
1954.....	74	32,478	146,843	25,544	109,986	205,442	184,194	389,638
1947 <sup>9</sup> .....	76	10,426	32,313	8,932	26,051	74,706	61,650	136,356
1939 <sup>9</sup> .....	80	8,315	13,721	7,242	10,964	44,193	26,860	71,053
1937 <sup>9 10</sup> .....	85	(NA)	(NA)	7,240	10,926	39,746	27,597	67,343
Organic chemicals, n.e.c. <sup>8</sup> (S.I.C. 2829):								
1954.....	275	67,531	364,852	46,428	227,428	1,171,165	1,027,522	2,198,687
1947.....	167	51,940	178,086	36,350	115,315	456,319	516,725	973,044
1939.....	119	(NA)	(NA)	12,839	21,897	133,526	103,604	237,130

See footnote at end of table.

## MANUFACTURES—INDUSTRY STATISTICS

Table 1.—GENERAL STATISTICS FOR THE UNITED STATES: 1954 AND EARLIER YEARS—Continued  
(For explanation of column captions see Introduction)

Industry and census year	Establishments, number	All employees		Production workers		Value added by manufacture <sup>2</sup> (\$1,000)	Cost of materials, etc. <sup>3</sup> (\$1,000)	Value of shipments <sup>4</sup> (\$1,000)
		Number <sup>1</sup>	Payroll (\$1,000)	Number <sup>1</sup>	Wages (\$1,000)			
Total for intermediates and organic colors and organic chemicals, n.e.c.i:								
1954.....	382	100,279	530,363	68,725	326,844	1,533,470	1,380,818	2,914,289
1953 <sup>5</sup> .....	(NA)	99,645	511,824	69,551	326,197	1,649,582	1,353,795	3,003,377
1952 <sup>5</sup> .....	(NA)	93,927	452,241	65,338	286,254	1,498,766	1,288,730	2,787,496
1951 <sup>5</sup> .....	(NA)	95,319	434,926	67,079	280,529	1,406,381	1,296,388	2,702,769
1950 <sup>5</sup> .....	(NA)	86,143	365,569	61,851	238,764	1,222,249	973,985	2,195,234
1949 <sup>5</sup> .....	(NA)	80,651	318,562	56,679	205,072	890,856	759,015	1,649,871
1947.....	260	85,543	293,162	61,889	195,788	716,090	735,506	1,451,596
1939 <sup>6</sup> .....	192	(NA)	(NA)	22,580	37,873	212,827	163,760	376,587

NA Not available.

<sup>1</sup>For the period 1949-1954, figures are based on employment for the payroll periods ended nearest the 15th of March, May, August and November. For 1947, they represent the average of 12 monthly figures. For earlier years, the production worker average was calculated as in 1947, but the figure for all employees represents the sum of the annual average number of production workers and the number of nonproduction workers reported for one payroll period (usually in October).

<sup>2</sup>Value of products less cost of materials, supplies, fuel, electric energy and contract work. See Introduction, "Value Added by Manufacture." For the "Synthetic fibers" industry, 1947 value added by manufacture does not equal the published value of shipments less cost of materials, etc. because an estimated value of production was used in the calculation in place of value of shipments. Since the 1949-1952 estimates were derived from 1947 base totals, the same inequality may exist for these years.

<sup>3</sup>Figures for years prior to 1935 do not include cost of contract work.

<sup>4</sup>For 1929 and 1947-1954, value of shipments; for all other years, value of production. See Introduction "Value of Shipments."

<sup>5</sup>The figures for 1949-1953 represent estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period. Estimates with a standard error in excess of 15 percent generally have been omitted from this table.

<sup>6</sup>No comparable figures are available for earlier years.

<sup>7</sup>The figures for 1939 are not entirely comparable with those for earlier years. Value added by manufacture for 1939 on a basis comparable with earlier years was \$37.1 million for "Plastics materials."

<sup>8</sup>No comparable figures are available for earlier years. There were no establishments engaged primarily in the manufacture of synthetic rubber in 1939.

<sup>9</sup>Excludes data for Government owned-privately operated plants which are included in the 1954 figures.

<sup>10</sup>The figures prior to 1937 are not sufficiently comparable with those for later years to be shown here because they exclude data for safety fuses and blasting and detonating caps.

## INDUSTRIAL ORGANIC CHEMICALS

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Table 2.—GENERAL STATISTICS BY REGIONS AND STATES: 1954 AND 1947

(For explanation of column captions see Introduction)

Industry, region, and State <sup>1</sup>	1954										1947		
	Establishments, number		All employees		Production workers			Value added by manufacture	Cost of materials, etc.	Value of shipments	Capital expenditures, new	All employees, number	Value added by manufacture
	Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)		(\$1,000)
Cyclic (coal-tar) crudes (S.I.C. 2821), total.....	43	26	1,925	8,246	1,488	2,829	5,620	22,179	54,974	77,154	2,199	1,972	17,071
Northeast.....	13	6	538	2,406	390	783	1,568	5,466	16,654	22,120	441	1,439	11,803
North Central.....	18	11	737	3,121	577	1,093	2,159	7,908	20,085	27,993	(D)		
South and West.....	12	9	649	2,718	520	951	1,892	8,805	18,234	27,039	(D)	533	5,268
Intermediates and organic colors (S.I.C. 2822), total.....	107	76	32,748	165,511	22,297	44,142	99,416	362,305	353,296	715,602	72,067	33,603	259,771
New England.....	8	6	1,504	7,231	1,000	1,960	4,086	14,001	15,173	29,174	(D)	22,059	164,345
Middle Atlantic.....	59	37	15,096	76,728	9,984	19,844	44,748	153,800	161,984	315,785	(D)		
New York.....	15	7	3,171	15,204	2,281	4,584	9,414	29,702	25,813	55,516	(D)		
New Jersey.....	31	21	9,141	47,506	5,639	10,957	25,864	92,307	86,629	178,937	13,219		
Pennsylvania.....	13	9	2,783	14,017	2,063	4,302	9,470	31,790	49,541	81,331	6,581	9,714	84,887
East North Central.....	18	16	12,019	62,017	8,519	16,835	39,087	139,043	111,115	250,159	21,748		
Ohio.....	9	8	1,779	7,972	1,483	2,929	6,132	20,154	25,768	45,922	6,188		
South.....	18	14	3,688	17,350	2,492	4,899	10,088	52,157	55,641	107,799	21,945	1,830	10,539
West Virginia.....	4	3	1,264	5,385	979	1,865	3,775	17,364	14,801	32,165	4,179		
Pacific.....	4	3	440	2,185	302	602	1,406	3,302	9,381	12,684	166	1,830	10,539
California.....	4	3	440	2,185	302	602	1,406	3,302	9,381	12,684	166		
Plastics materials (S.I.C. 2823), total.....	206	127	41,145	201,487	28,388	57,441	122,188	583,224	648,224	1,231,448	108,058	28,627	197,558
New England.....	27	12	4,096	19,971	2,654	5,462	11,481	57,885	80,828	138,713	6,978	3,734	22,893
Massachusetts.....	18	9	3,096	15,181	1,884	3,814	8,003	36,110	60,210	96,321	5,319	3,210	18,428
Middle Atlantic.....	71	50	17,379	87,479	11,540	23,552	51,317	236,168	237,273	473,442	26,548	14,681	106,330
New York.....	25	18	4,319	22,562	2,987	6,185	13,584	57,636	45,208	102,844	5,565	2,034	20,974
New Jersey.....	31	20	6,763	32,784	4,626	9,359	19,953	80,748	92,485	173,234	8,687	8,827	66,284
Pennsylvania.....	15	12	6,296	32,132	3,925	8,007	17,779	97,784	99,580	197,364	12,296	3,820	19,072
North Central.....	47	29	7,066	35,095	5,004	10,156	21,747	109,818	132,723	242,542	18,873	2,777	25,372
Ohio.....	19	11	1,656	8,478	1,108	2,235	5,256	23,695	28,667	52,363	11,847	414	(D)
Illinois.....	12	6	644	3,012	476	952	1,953	14,725	12,339	27,064	1,319	93	(D)
Wisconsin.....	5	3	423	1,842	363	766	1,289	3,757	3,848	7,605	343	(D)	(D)
South.....	30	17	11,597	53,635	8,595	17,108	35,049	165,754	171,138	336,892	53,904	6,934	40,890
North Carolina.....	5	2	832	3,675	579	1,188	2,118	12,195	12,559	24,754	(D)	(D)	(D)
Tennessee.....	4	4	2,985	14,332	2,122	4,060	8,860	39,974	34,388	74,362	2,917	1,844	(D)
Pacific.....	31	19	1,005	5,306	593	1,162	2,592	13,597	26,261	39,859	1,754	501	2,073
California.....	26	14	683	3,642	431	854	1,920	7,731	16,136	23,868	1,335	(D)	(D)
Synthetic rubber (S.I.C. 2824), total.....	21	21	8,531	44,502	6,178	12,217	30,214	152,906	208,187	361,093	13,760	7,663	97,356
Northeast & North Central...	5	5	1,103	5,493	686	1,356	3,112	14,567	21,821	36,388	1,035	1,138	19,440
South and West.....	16	16	7,427	39,008	5,491	10,860	27,101	138,339	186,365	324,703	12,725	6,525	77,916
Texas.....	7	7	2,781	15,173	2,139	4,331	11,134	61,609	92,436	154,044	2,670	2,538	(D)
Synthetic fibers (S.I.C. 2825), total.....	46	44	61,105	261,753	45,894	89,959	174,376	717,226	523,713	1,240,942	62,751	69,683	433,285
Northeast & East North Central.....	14	12	9,511	39,693	7,331	14,630	28,269	79,569	63,063	142,632	3,595	14,161	75,805
South Atlantic.....	23	23	35,134	149,732	25,937	50,868	97,219	472,967	302,183	775,150	41,503	(D)	(D)
Virginia.....	9	9	15,669	67,420	12,186	23,560	46,653	235,309	138,867	374,177	10,414	20,672	138,149
East South Central.....	9	9	16,468	72,326	12,624	24,459	48,886	164,693	158,466	323,158	17,651	13,878	(D)
Explosives (S.I.C. 2826), total.....	74	55	32,478	146,843	25,544	51,696	109,986	205,442	184,194	389,638	17,279	10,426	74,706
Northeast.....	21	15	4,925	20,509	4,117	7,896	16,045	43,056	25,096	68,153	2,318	6,443	42,046
East North Central.....	20	15	11,593	55,020	8,653	18,479	39,290	68,575	56,373	124,948	956	(D)	(D)
Ohio.....	6	3	261	1,057	248	545	986	2,146	3,269	5,416	56	283	(D)
Illinois.....	6	5	3,990	19,667	2,632	5,614	12,361	28,897	25,628	54,526	453	557	4,863

See footnotes at end of table.



## MANUFACTURES—INDUSTRY STATISTICS

Table 2.—GENERAL STATISTICS BY REGIONS AND STATES: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Industry, region, and State <sup>1</sup>	1954											1947	
	Establishments, number		All employees		Production workers			Value added by manufacture	Cost of materials, etc.	Value of shipments	Capital expenditures, new	All employees, number	Value added by manufacture
	Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)		(\$1,000)
Explosives (S.I.C. 2826),— Continued													
West North Central.....	5	4	4,914	22,554	4,120	8,039	18,210	28,869	22,581	51,450	1,864	(D)	(D)
South.....	15	10	9,544	42,089	7,436	14,928	31,278	50,117	65,686	115,803	11,563	(D)	(D)
Mountain.....	5	5	775	3,398	661	1,268	2,723	7,715	7,251	14,966	204	(D)	(D)
Pacific.....	8	6	725	3,270	555	1,084	2,438	7,111	7,205	14,316	371	(D)	(D)
Washington.....	4	3	323	1,504	242	467	1,042	2,581	3,125	5,707	216	298	2,522
Organic chemicals, n.e.c. (S.I.C. 2829), total.....	275	168	67,531	364,852	46,428	93,101	227,428	1,171,165	1,027,522	2,198,687	154,550	51,940	456,319
New England.....	29	14	2,221	11,730	1,442	3,014	6,419	30,501	32,236	62,738	1,279	14,956	116,262
Massachusetts.....	12	6	372	1,761	258	531	1,013	6,476	8,440	14,917	(D)		
Middle Atlantic.....	91	56	20,011	107,851	13,776	27,177	65,094	263,467	256,667	520,134	19,653		
New York.....	37	22	5,241	27,687	3,576	7,052	15,986	58,956	53,777	112,733	3,892		
New Jersey.....	40	24	12,633	70,552	8,599	16,765	42,467	185,581	172,368	357,949	13,553		
Pennsylvania.....	14	10	2,137	9,612	1,600	3,360	6,641	18,930	30,521	49,451	2,207		
North Central.....	54	32	7,964	39,775	5,242	10,754	23,936	102,839	121,459	224,300	38,041	5,902	48,275
Ohio.....	15	10	1,081	5,393	766	1,601	3,475	17,565	26,978	44,544	1,433		
Illinois.....	19	5	1,342	6,577	948	2,019	4,274	12,850	19,294	32,144	(D)		
Michigan.....	7	6	2,191	11,045	1,193	2,498	5,302	25,729	20,978	46,708	5,427		
South Atlantic.....	30	18	14,188	77,843	10,462	21,127	52,879	215,708	226,630	442,338	24,865	31,082	291,782
Virginia.....	7	5	724	3,490	527	1,015	2,107	9,405	9,855	19,260	903		
West Virginia.....	7	6	12,590	70,545	9,253	18,684	48,079	196,218	201,743	397,962	23,623		
East South Central.....	15	11	3,424	17,511	2,274	4,469	10,255	50,512	55,662	106,174	(D)		
Tennessee.....	6	4	2,734	14,062	1,898	3,689	8,573	40,453	35,743	76,196	5,403		
West South Central.....	27	23	18,132	102,257	12,206	24,534	64,397	470,489	305,714	776,204	61,149	31,082	291,782
Louisiana.....	7	7	4,585	27,004	3,454	6,862	19,098	101,088	74,770	175,858	7,618		
Texas.....	17	14	13,327	74,379	8,577	17,309	44,620	368,711	228,020	596,731	53,344		
West.....	29	14	1,588	7,882	1,023	2,022	4,445	37,647	29,151	66,798	(D)		
Colorado.....	3	1	172	721	39	69	130	166	287	454	(D)		
California.....	22	11	1,333	6,740	915	1,816	3,993	32,667	22,625	55,293	1,126		

Note: Detailed figures may not add to the totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>General statistics for some producing States are not shown separately in the table (see INTRODUCTION "Confidentiality of Data for Individual Companies"). Such States are shown below with the number of establishments in each State for 1954 and, in parentheses, the number of employees or the employment-size range for that State for 1954:

S.I.C. 2821, Cyclic (coal-tar) Crudes: Northeast—Maine, 1 (1-19); Massachusetts, 2 (20-99); Rhode Island, 1 (1-19); Connecticut, 1 (1-19); New York, 2 (20-99); New Jersey, 3 (250-499); Pennsylvania, 3 (20-99); North Central—Ohio, 7 (250-499); Indiana, 2 (20-99); Illinois, 4 (250-499); Michigan, 1 (20-99); Wisconsin, 1 (1-19); Minnesota, 2 (20-99); Missouri, 1 (1-19); South and West—Maryland, 1 (1-19); West Virginia, 2 (250-499); Tennessee, 1 (1-19); Alabama, 1 (20-99); Louisiana, 1 (20-99); Texas, 3 (20-99); Utah, 1 (20-99); Washington, 1 (1-19); California, 1 (20-99).

S.I.C. 2822, Intermediates, and Organic Colors: New England—Massachusetts, 6 (1,000-2,499); Rhode Island, 1 (20-99); Connecticut, 1 (20-99); East North Central—Indiana, 1 (100-249); Illinois, 3 (2,500-4,999); Michigan, 5 (7,249); South—Maryland, 1 (20-99); Virginia, 1 (20-99); North Carolina, 2 (250-499); South Carolina, 1 (20-99); Georgia, 1 (20-99); Tennessee, 1 (20-99); Alabama, 4 (500-999); Texas, 3 (1,327).

S.I.C. 2823, Plastic Materials: New England—New Hampshire, 1 (1-19); Rhode Island, 1 (1-19); Connecticut, 7 (500-999); North Central—Indiana, 3 (100-249); Michigan, 4 (2,520); Minnesota, 2 (20-99); Iowa, 2 (1,000-2,499); South—Delaware, 7 (500-999); Virginia, 2 (2,500-4,999); West Virginia, 1 (250-499); Florida, 1 (1-19); Kentucky, 3 (500-999); Alabama, 2 (20-99); Louisiana, 1 (20-99); Texas, 4 (1,440); Pacific—Washington, 4 (250-499); Oregon, 1 (20-99).

S.I.C. 2824, Synthetic Rubber: Northeast and North Central—Connecticut, 1 (250-499); New Jersey, 1 (100-249); Ohio, 3 (500-999); South and West—West Virginia, 14 (1,000-2,499); Kentucky, 2 (2,500-4,999); Mississippi, 1 (20-99); Louisiana, 4 (1,000-2,499); California, 1 (250-499).

S.I.C. 2825, Synthetic Fibers: Northeast and North Central—New Hampshire, 1 (20-99); Vermont, 2 (20-99); Massachusetts, 1 (250-499); Connecticut, 2 (250-499); New York, 2 (1,000-2,499); Pennsylvania, 3 (2,500-4,999); Ohio, 2 (1,000-2,499); Michigan, 1 (1-19); South Atlantic—Delaware, 2 (2,500-4,999); Maryland, 2 (1,000-2,499); West Virginia, 3 (2,500-4,999); North Carolina, 2 (5,000-9,999); South Carolina, 3 (3,063); Georgia, 1 (1,000-2,499); Florida, 1 (2,500-4,999); East South Central—Tennessee, 6 (14,846); Alabama, 3 (1,622).

S.I.C. 2826, Explosives: Northeast—Massachusetts, 1 (20-99); Connecticut, 1 (250-499); New York, 3 (500-999); New Jersey, 2 (1,000-2,499); Pennsylvania, 14 (1,000-2,499); East North Central—Indiana, 3 (4,007); Michigan, 3 (100-249); Wisconsin, 2 (2,500-4,999); West North Central—Missouri, 3 (500-999); Kansas, 2 (2,500-4,999); South—Maryland, 1 (1-19); Virginia, 2 (5,000-9,999); West Virginia, 2 (250-499); Kentucky, 1 (100-249); Tennessee, 2 (2,500-4,999); Alabama, 3 (500-999); Oklahoma, 1 (1-19); Texas, 3 (250-499); Mountain—Colorado, 2 (250-499); Arizona, 1 (250-499); Utah, 2 (100-249); Pacific—Oregon, 1 (1-19); California, 3 (250-499).

S.I.C. 2829, Organic Chemicals N.E.C.: New England—Maine, 2 (20-99); Rhode Island, 5 (100-249); Connecticut, 10 (1,575); North Central—Indiana, 2 (500-999); Wisconsin, 5 (100-249); Minnesota, 1 (20-99); Missouri, 2 (1,000-2,499); Nebraska, 2 (250-499); Kansas, 1 (1-19); South Atlantic—Delaware, 2 (250-499); Maryland, 6 (250-499); North Carolina, 5 (20-99); South Carolina, 2 (100-249); Florida, 1 (20-99); East South Central—Kentucky, 5 (500-999); Alabama, 4 (20-99); West South Central—Arkansas, 1 (100-249); Oklahoma, 2 (100-249); West—Nevada, 1 (20-99); Washington, 3 (20-99).

## INDUSTRIAL ORGANIC CHEMICALS

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Table 3.—DETAILED STATISTICS FOR THE UNITED STATES: 1954

(For explanation of line captions see Introduction)

Item	Cyclic (coal tar) crudes (S.I.C. 2821)		Intermediates and organic colors (S.I.C. 2822)		Plastics materials (S.I.C. 2823) all estab- lishments
	All estab- lishments	Establish- ments with 90% or more primary prod- uct special- ization	All estab- lishments	Establish- ments with 90% or more primary prod- uct special- ization	
Primary product specialization ratio <sup>1</sup> .....	82	xxx	64	xxx	90
Coverage ratio <sup>2</sup> .....	72	xxx	66	xxx	75
Number of establishments, total.....	43	28	107	67	206
With 1-19 employees.....	17	15	31	23	79
With 20-99 employees.....	22	13	39	32	70
With 100 employees and over.....	4	...	37	12	57
All employees:					
Number (average for year).....	1,925	761	32,748	4,911	41,145
Payroll.....\$1,000..	8,246	3,286	165,511	23,698	201,487
Production workers:					
Number (average for year).....	1,488	604	22,297	3,779	28,388
Man-hours.....1,000..	2,829	1,080	44,142	7,582	57,441
Wages.....\$1,000..	5,620	2,174	99,416	14,890	122,188
Value added by manufacture.....do...	22,179	9,321	362,305	48,796	583,224
Cost of materials, etc.....do...	54,974	23,029	353,296	69,304	648,224
Value of shipments.....do...	77,154	32,351	715,602	118,101	1,231,448
Value added by resales.....do...	494	328	4,402	899	2,916
Cost of products bought and resold.....do...	1,482	796	22,687	4,801	20,159
Sales of products bought and resold.....do...	1,976	1,124	27,089	5,700	23,075
Total inventories, beginning of year.....do...	12,791	5,840	166,923	38,909	141,113
Total inventories, end of year.....do...	13,354	5,519	157,250	39,497	136,032
Capital expenditures, new.....do...	2,199	777	72,067	8,115	108,058
Number of employees for selected months:					
March.....	1,942	779	33,111	4,797	40,662
May.....	1,930	760	33,180	4,819	41,208
August.....	1,953	767	32,344	4,983	41,118
November.....	1,874	738	32,356	5,047	41,592
Cost of materials, fuel, electricity and contract work, total.....\$1,000..	54,974	23,029	353,296	69,304	648,224
Materials, parts, containers, and supplies consumed.....do...	52,305	22,036	323,198	65,443	621,428
Fuels consumed, total.....do...	2,333	909	20,625	2,568	15,503
Bituminous coal and anthracite:					
Quantity.....1,000 short tons..	47	(NA)	1,715	(NA)	1,049
Value.....\$1,000..	277	(NA)	12,183	(NA)	8,357
Coke:					
Quantity.....1,000 short tons..	...	...	...	...	( <sup>3</sup> )
Value.....\$1,000..	...	...	...	...	( <sup>4</sup> )
Fuel oil:					
Quantity.....1,000 barrels..	363	(NA)	1,021	(NA)	899
Value.....\$1,000..	1,091	(NA)	2,838	(NA)	2,659
Gas:					
Quantity.....million cubic feet..	1,873	(NA)	21,110	(NA)	10,352
Value.....\$1,000..	525	(NA)	5,440	(NA)	3,648
Other fuels:					
Value.....do...	440	(NA)	164	(NA)	835
Electric energy:					
Purchased:					
Quantity.....million kwh..	24	4	712	114	716
Cost.....\$1,000..	336	84	7,312	1,249	6,822
Generated.....million kwh..	...	...	994	2	303
Sold:					
Quantity.....do...	...	...	52	...	( <sup>5</sup> )
Value.....\$1,000..	...	...	575	...	...
Cost of contract work.....do...	...	...	2,161	44	4,471
Manufactures' inventories:					
Beginning of year, total.....do...	12,791	5,840	166,923	38,909	141,113
Finished products.....do...	7,665	3,205	63,570	13,578	58,357
Work-in-process.....do...	1,301	786	43,624	9,795	23,558
Materials, supplies, fuel, etc.....do...	3,825	1,849	59,729	15,536	59,198
End of year, total.....do...	13,354	5,519	157,250	39,497	136,032
Finished products.....do...	6,715	2,042	60,329	14,998	60,438
Work-in-process.....do...	1,784	994	43,031	9,172	21,182
Materials, supplies, fuel, etc.....do...	4,855	2,483	53,890	15,327	54,412
Expenditures for plant and equipment, total.....do...	2,204	782	72,267	8,297	110,804
Capital expenditures, new.....do...	2,199	777	72,067	8,115	108,058
New structures and additions to plant.....do...	1,039	( <sup>6</sup> )	13,533	3,059	19,941
New machinery and equipment.....do...	1,160	655	58,534	5,056	88,117
Expenditures for used plant and equipment.....do...	( <sup>6</sup> )	( <sup>6</sup> )	( <sup>6</sup> )	( <sup>6</sup> )	2,746
Horsepower rating of power equipment at end of 1954:					
Horsepower of prime movers and electric motors driven by pur- chased energy, total.....1,000 hp..	16	6	630	65	563
Engines, etc., driving electric generators.....do...	( <sup>7</sup> )	...	299	4	99
Engines, etc., not driving electric generators.....do...	4	2	112	20	134
Electric motors driven by purchased energy.....do...	12	4	219	41	330
Electric motors driven by energy generated at the establishment.....do...	...	...	175	5	109

See footnotes at end of table.

## MANUFACTURES—INDUSTRY STATISTICS

Table 3.—DETAILED STATISTICS FOR THE UNITED STATES: 1954—Continued

Item	Synthetic rubber (S.I.C. 2824) all estab- lishments	Synthetic fibers (S.I.C. 2825) all estab- lishments	Explosives (S.I.C. 2826) all estab- lishments	Organic chemicals, n.e.c. (S.I.C. 2829)	
				All estab- lishments	Estab- lishments with 90% or more primary prod- uct special- ization
Primary product specialization ratio <sup>1</sup> .....	98	96	98	77	xxx
Coverage ratio <sup>2</sup> .....	90	99	91	80	xxx
Number of establishments, total.....	21	46	74	275	173
With 1-19 employees.....	...	2	19	107	86
With 20-99 employees.....	2	4	18	91	53
With 100 employees and over.....	19	40	37	77	34
All employees:					
Number (average for year).....	8,531	61,105	32,478	67,531	18,047
Payroll.....\$1,000..	44,502	261,753	146,843	364,852	96,926
Production workers:					
Number (average for year).....	6,178	45,894	25,544	46,428	12,583
Man-hours.....1,000..	12,217	89,959	51,696	93,101	25,189
Cost of materials, etc.....\$1,000..	30,214	174,376	109,986	227,428	61,190
Value added by manufacture.....do...	152,906	717,226	205,442	1,171,165	374,886
Cost of materials, etc.....do...	208,187	523,713	184,194	1,027,522	300,107
Value of shipments.....do...	361,093	1,240,942	389,638	2,198,687	674,992
Value added by resales.....do...	67	6	866	6,109	1,539
Cost of products bought and resold.....do...	405	1,076	4,772	40,025	11,412
Sales of products bought and resold.....do...	472	1,082	5,638	46,134	12,951
Total inventories, beginning of year.....do...	61,608	152,842	120,435	280,790	80,255
Total inventories, end of year.....do...	48,520	131,297	134,714	272,988	87,748
Capital expenditures, new.....do...	13,760	62,751	17,279	154,550	34,756
Number of employees for selected months:					
March.....	8,879	60,415	36,258	67,094	17,682
May.....	8,530	60,043	32,366	67,347	17,980
August.....	8,230	60,836	31,271	68,000	18,249
November.....	8,485	63,125	30,016	67,684	18,278
Cost of materials, fuel, electricity and contract work, total.....\$1,000..	208,187	523,713	184,194	1,027,522	300,107
Materials, parts, containers, and supplies consumed.....do...	200,002	496,027	172,978	946,279	277,745
Fuels consumed, total.....do...	4,339	24,161	7,631	52,121	11,334
Bituminous coal and anthracite:					
Quantity.....1,000 short tons..	148	2,999	885	3,214	(NA)
Value.....\$1,000..	580	20,229	5,942	19,114	(NA)
Coke:					
Quantity.....1,000 short tons..	...	...	...	( <sup>3</sup> )	(NA)
Value.....\$1,000..	...	...	...	( <sup>4</sup> )	(NA)
Fuel oil:					
Quantity.....1,000 barrels..	17	820	354	2,156	(NA)
Value.....\$1,000..	81	2,066	1,329	5,597	(NA)
Gas:					
Quantity.....million cubic feet..	11,030	8,867	503	146,429	(NA)
Value.....\$1,000..	2,249	1,716	134	22,985	(NA)
Other fuels:					
Value.....do...	1,429	150	226	4,423	(NA)
Electric energy:					
Purchased:					
Quantity.....million kwh..	395	466	346	3,485	1,691
Cost.....\$1,000..	2,751	3,172	3,327	22,813	9,758
Generated.....million kwh..	79	1,954	55	4,087	41
Sold:					
Quantity.....do...	15	183	7	391	...
Value.....\$1,000..	124	859	64	4,839	...
Cost of contract work.....do...	1,095	353	258	6,309	1,270
Manufacturers' inventories:					
Beginning of year, total.....do...	61,608	152,842	120,435	280,790	80,255
Finished products.....do...	43,711	62,032	52,417	124,540	37,878
Work-in-process.....do...	2,343	29,041	15,663	42,576	5,103
Materials, supplies, fuel, etc.....do...	15,554	61,769	52,355	113,674	37,274
End of year, total.....do...	48,520	131,297	134,714	272,988	87,748
Finished products.....do...	33,371	50,862	66,936	126,150	40,779
Work-in-process.....do...	2,228	21,659	16,106	41,049	4,803
Materials, supplies, fuel, etc.....do...	12,921	58,776	51,672	105,789	42,166
Expenditures for plant and equipment, total.....do...	14,416	63,018	20,114	159,101	35,940
Capital expenditures, new.....do...	13,760	62,751	17,279	154,550	34,756
New structures and additions to plant.....do...	1,699	8,323	11,418	38,465	4,070
New machinery and equipment.....do...	12,061	54,428	5,861	116,085	30,686
Expenditures for used plant and equipment.....do...	656	( <sup>6</sup> )	2,835	4,551	1,184
Horsepower rating of power equipment at end of 1954:					
Horsepower of prime movers and electric motors driven by pur- chased energy, total.....1,000 hp..	283	1,035	480	1,716	488
Engines, etc., driving electric generators.....do...	39	726	87	214	20
Engines, etc., not driving electric generators.....do...	92	141	89	711	197
Electric motors driven by purchased energy.....do...	152	168	304	791	271
Electric motors driven by energy generated at the establishment.....do...	17	579	89	235	12

Note: Detailed figures may not add to the totals because of independent rounding.   xxx Not applicable.   NA Not available.   <sup>1</sup>The specialization ratio compares the given industry's shipments of its primary products to its total shipments of all products. (The primary products are listed in Tables 5B and 6A; the first 4-digits of the product code represent the industry code to which the product is primary.) Columns containing totals for establishments with 90% or more primary product specialization are shown only for those industries having a primary product specialization of less than 90%.   <sup>2</sup>The coverage ratio measures the extent to which the total shipments of products primary to the given industry are shipped by establishments classified in that industry.   <sup>3</sup>Less than 500 tons.   <sup>4</sup>Less than \$5,000.   <sup>5</sup>Less than 500 thousand kwh.   <sup>6</sup>Less than \$500 thousand.   <sup>7</sup>Less than 500 hp.



## INDUSTRIAL ORGANIC CHEMICALS

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Table 4.—SELECTED STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR THE UNITED STATES: 1954

(Value figures in thousands of dollars. For explanation of line captions see Introduction. Data which cannot be shown without disclosing information for individual companies have been combined with figures for other size classes. A (D) appears in the column where the figure has been omitted and the combined figure is underlined and shown in the size-class to the left)

Ind. code	Industry and item	Total, all establishments	Establishments with an average of—								1,000-2,499 employees	2,500 employees and over
			1-4 employees	5-9 employees	10-19 employees	20-49 employees	50-99 employees	100-249 employees	250-499 employees	500-999 employees		
2821	Cyclic (coal tar) crudes:											
	Number of establishments...	43	2	4	11	14	8	3	1	...	...	...
	Number of employees.....	1,925	32	(D)	163	465	<u>1,263</u>	(D)	(D)	...	...	...
	Value added by manufacture.	22,179	<u>564</u>	(D)	2,385	7,040	<u>12,189</u>	(D)	(D)	...	...	...
2822	Intermediates and organic colors:											
	Number of establishments...	107	7	11	13	20	19	12	10	7	6	2
	Number of employees.....	32,748	25	82	175	659	1,424	1,957	3,034	5,104	<u>20,285</u>	(D)
	Value added by manufacture.	362,305	187	895	1,611	6,158	15,830	24,074	27,583	49,858	<u>236,106</u>	(D)
2823	Plastics materials:											
	Number of establishments...	206	21	22	36	40	30	22	14	10	9	2
	Number of employees.....	41,145	72	165	562	1,312	2,043	3,897	4,747	7,718	<u>20,627</u>	(D)
	Value added by manufacture.	583,224	496	1,940	5,547	15,946	22,698	53,762	80,907	117,842	<u>284,083</u>	(D)
2824	Synthetic rubber:											
	Number of establishments...	21	...	...	...	2	...	4	12	2	1	...
	Number of employees.....	8,531	...	...	...	<u>746</u>	...	(D)	<u>7,785</u>	(D)	(D)	...
	Value added by manufacture.	152,906	...	...	...	<u>10,182</u>	...	(D)	<u>142,723</u>	(D)	(D)	...
2825	Synthetic fibers:											
	Number of establishments...	46	...	...	2	4	...	5	4	6	16	9
	Number of employees.....	61,105	...	...	<u>165</u>	(D)	...	788	1,469	4,524	27,274	26,884
	Value added by manufacture.	717,226	...	...	<u>763</u>	(D)	...	12,011	11,829	44,020	293,198	355,407
2826	Explosives:											
	Number of establishments...	74	10	5	4	9	9	14	10	5	3	5
	Number of employees.....	32,478	27	33	52	281	708	2,370	3,183	<u>7,800</u>	(D)	18,022
	Value added by manufacture.	205,442	298	265	259	1,970	6,581	23,535	32,074	<u>56,103</u>	(D)	84,355
2829	Organic chemicals, n.e.c.:											
	Number of establishments...	275	45	28	34	62	29	30	21	9	12	5
	Number of employees.....	67,531	118	200	455	2,067	2,004	4,658	7,435	6,227	19,826	24,537
	Value added by manufacture.	1,171,165	1,150	2,288	5,163	33,449	24,147	75,214	102,511	132,507	357,967	436,766

Note: Detailed figures may not add to the totals because of independent rounding.

Table 5A.—INDUSTRY-PRODUCT ANALYSIS—SUMMARY OF INDUSTRY AND PRIMARY PRODUCT SHIPMENTS, SPECIALIZATION RATIOS AND COVERAGE RATIOS FOR THE UNITED STATES: 1954 AND 1947

Industry code	Industry and census year	Value of shipments					Value of primary products shipped			
		Total	Primary products	Secondary products	Miscellaneous receipts	Primary product specialization ratio <sup>1</sup>	Total (made in all industries)	Made in this industry	Made in other industries	Coverage ratio <sup>2</sup>
		(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	Col. B Col. C (Percent)	(\$1,000)	(\$1,000)	(\$1,000)	Col. G Col. F (Percent)
		(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)
2821	Cyclic (coal-tar) crudes....1954..	77,154	63,213	13,730	211	82	87,426	63,213	24,213	72
	1947..	60,639	51,426	9,074	139	85	65,979	51,426	14,553	78
2822	Intermediates and organic colors.....1954..	715,602	455,294	258,211	2,097	64	691,312	455,294	236,018	66
	1947..	478,552	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	378,942	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
2823	Plastics materials.....1954..	1,231,448	1,098,816	127,190	5,442	90	1,463,460	1,098,816	364,644	75
	1947..	478,331	431,571	37,874	8,886	92	559,583	431,571	128,012	77
2824	Synthetic rubber.....1954..	361,093	351,566	7,862	1,665	98	392,194	351,566	40,628	90
	1947..	235,200	225,100	10,100	...	96	253,043	225,100	27,943	89
2825	Synthetic fibers.....1954..	1,240,942	1,189,614	43,311	8,017	96	1,202,343	1,189,614	12,729	99
	1947..	705,271	664,050	20,757	20,464	97	677,712	664,050	13,662	98
2826	Explosives.....1954..	389,638	167,420	9,204	4213,014	498	183,680	167,420	16,260	91
	1947..	136,356	118,064	17,890	402	87	119,648	118,064	1,584	99
2829	Organic chemicals, n.e.c....1954..	2,198,687	1,675,459	514,214	9,014	77	2,082,231	1,675,459	406,772	80
	1947..	973,044	( <sup>3</sup> )	( <sup>3</sup> )	...	( <sup>3</sup> )	965,896	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )

<sup>1</sup>The specialization ratio compares the given industry's shipments of its primary products to its total shipments of all products. (The primary products are listed in Tables 5B and 6A; the first 4-digits of the product code represent the industry code to which the product is primary.)

<sup>2</sup>The coverage ratio measures the extent to which the total shipments of products primary to the given industry are shipped by establishments classified in that industry.

<sup>3</sup>Separate figures for 1947 are not available for industries 2822 and 2829. The ratios in 1947 for the two industries combined were: specialization 81, coverage 86. Miscellaneous receipts figure includes value of explosives produced in Government-owned, privately-operated plants. Miscellaneous receipts figure has therefore been used both in the numerator and denominator of the specialization calculation.



Table 5B.--INDUSTRY-PRODUCT ANALYSIS--SHIPMENTS BY PRODUCT CLASS AND INDUSTRY, FOR THE UNITED STATES: 1954

(In thousands of dollars. The first column shows the total value of shipments of the specified industry divided among: (a) products classified in the industry (primary products), (b) products classified in other industries (secondary products) and (c) miscellaneous receipts. The value of shipments of the primary products of the specified industry reported by establishments not classified in that industry is shown under the caption "Other Industries." Industries accounting for significant amounts of the primary products listed are shown in separate columns provided that the figures for individual companies are not thereby disclosed. The last column shows the total value of shipments of the primary products of the industry by all manufacturing industries)

Prod. class code	Cyclic (coal tar) crudes industry	Cyclic (coal tar) crudes (S.I.C. 2821)	Other industries	All industries	Prod. class code	Plastics materials industry	Plastics materials (S.I.C. 2823)	Other industries	All industries
	Total industry shipments.....	77,154	xxx	xxx		Total industry shipments.....	1,231,448	xxx	xxx
28210	Cyclic (coal tar) crudes.....	63,213	24,213	87,426	28231	Cellulose plastics materials.....	68,734	13,620	82,354
	Secondary products.....	13,730	xxx	xxx	28232	Vulcanized fiber.....	5,493	76,511	12,004
29521	Asphalt and tar roofing, siding, and felts.....	4,158	xxx	xxx	28233	Regenerated cellulosic products, except rayon.....	210,424	6,588	217,012
	Other secondary products.....	19,572	xxx	xxx	28234	Vinyl and polyethylene unsupported film and sheets.....	40,993	8128,074	169,067
	Miscellaneous receipts.....	211	xxx	xxx	28235	Synthetic resins, except protective coatings.....	602,377	9162,816	765,193
					28236	Other plastics and resin materials	170,612	1046,529	217,141
					28230	Plastics materials, not specified by kind.....	183	506	689
						Secondary products.....	127,190	xxx	xxx
Prod. class code	Intermediates and organic colors industry	Intermediates and organic colors (S.I.C. 2822)	Other industries	All industries	28221	Cyclic (coal tar) intermediates...	8,824	xxx	xxx
	Total industry shipments.....	715,602	xxx	xxx	2851-	Paints and varnishes.....	1,987	xxx	xxx
	Primary products.....	455,294	236,018	691,312	28293	Miscellaneous acyclic chemicals...	17,876	xxx	xxx
28221	Cyclic (coal tar) intermediates..	290,733	2175,898	466,631	28294	Other synthetic organic chemicals.	25,170	xxx	xxx
28222	Cyclic (coal tar) dyes.....	114,261	342,001	156,262	28941	Glues and adhesives.....	6,509	xxx	xxx
28223	Synthetic organic pigments, lakes, and toners.....	50,300	418,119	68,419	28993	Chemical specialties.....	2,310	xxx	xxx
	Secondary products.....	258,211	xxx	xxx	39714	Other fabricated plastics products	8,498	xxx	xxx
						Other secondary products.....	1156,016	xxx	xxx
						Miscellaneous receipts.....	5,442	xxx	xxx
						Contract and commission work.....	3,690	xxx	xxx
						Scrap.....	1,690	xxx	xxx
						Other.....	62	xxx	xxx
					Prod. class code	Synthetic fiber industry	Synthetic fibers (S.I.C. 2825)	Other industries	All industries
28191	Synthetic ammonia, nitric acid, ammonium compounds.....	5,571	xxx	xxx		Total industry shipments.....	1,240,942	xxx	xxx
28193	Inorganic acids, except nitric and sulfuric.....	15,084	xxx	xxx		Primary products.....	1,189,614	12,729	1,202,343
28197	Other inorganic chemicals.....	9,871	xxx	xxx	28251	Acetate yarn.....	195,953	...	195,953
28293	Miscellaneous acyclic chemicals..	43,225	xxx	xxx	28252	Rayon yarn, viscose and cupramonium process.....	444,778	...	444,778
28294	Other synthetic organic chemicals.....	20,198	xxx	xxx	28253	Non-cellulosic synthetic fibers, except glass.....	548,883	12,729	561,612
28295	Pesticides and other organic agricultural chemicals.....	18,618	xxx	xxx		Secondary products.....	43,311	xxx	xxx
28332	Inorganic and organic medicinals, uncombined-bulk.....	30,441	xxx	xxx	28195	Other potassium and sodium compounds.....	3,970	xxx	xxx
28512	Industrial product finishes, and special coatings.....	5,764	xxx	xxx		Other secondary products.....	1239,341	xxx	xxx
28522	Chrome colors.....	11,199	xxx	xxx		Miscellaneous receipts.....	8,017	xxx	xxx
28523	Other inorganic pigments, including white extender.....	4,450	xxx	xxx		Contract work.....	7,770	xxx	xxx
28993	Chemical specialties.....	6,041	xxx	xxx		Scrap.....	247	xxx	xxx
	Other secondary products.....	987,749	xxx	xxx		Other.....			
	Miscellaneous receipts.....	2,097	xxx	xxx					
Prod. class code	Synthetic rubber industry	Synthetic rubber (S.I.C. 2824)	Other industries	All industries	Prod. class code	Explosive industry	Explosives (S.I.C. 2826)	Other industries	All industries
	Total industry shipments.....	361,093	xxx	xxx		Total industry shipments.....	389,638	xxx	xxx
28240	Synthetic (chemical) rubber.....	351,566	640,628	392,194	28260	Explosives.....	167,420	16,260	183,680
	Secondary products.....	7,862	xxx	xxx		Secondary products.....	9,204	xxx	xxx
	Miscellaneous receipts.....	1,665	xxx	xxx	28191	Synthetic ammonia, nitric acid, ammonium compounds.....	4,820	xxx	xxx
						Other secondary products.....	134,384	xxx	xxx
						Miscellaneous receipts, including estimated value of explosives produced in government owned privately operated plants.....	213,014	xxx	xxx

See footnotes at end of table.

## INDUSTRIAL ORGANIC CHEMICALS

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Table 5B.--INDUSTRY-PRODUCT ANALYSIS--SHIPMENTS BY PRODUCT CLASS AND INDUSTRY, FOR THE UNITED STATES: 1954--Continued

Prod. class code	Organic chemicals, n.e.c. industry	Organic chemicals, n.e.c. (S.I.C. 2829)	Alkalies and chlorine (S.I.C. 2812)	Inorganic chemicals, n.e.c. (S.I.C. 2819)	Intermediates and organic colors (S.I.C. 2822)	Plastics materials (S.I.C. 2823)	Medicinal chemicals including botanicals (S.I.C. 2833)	Other industries	All industries
	Total shipments of the industry.....	2,198,687	xxx	xxx	xxx	xxx	xxx	xxx	xxx
	Primary products.....	1,675,459	29,363	31,250	92,047	56,640	13,647	183,825	2,082,231
28291	Industrial ethyl alcohol.....	19,502	...	...	...	...	...	7,373	26,875
28292	Miscellaneous cyclic chemicals.....	58,837	...	1,591	(D)	(D)	1,314	11,565	85,974
28293	Miscellaneous acyclic chemicals.....	1,344,821	25,148	23,376	43,225	17,876	8,290	14,106,489	1,569,225
28294	Other synthetic organic chemicals.....	173,318	...	678	20,198	25,170	2,237	154,620	263,221
28295	Pesticides and other organic agricultural chemicals.....	52,238	4,215	4,938	18,618	(D)	502	8,568	96,884
28296	Other industrial organic chemicals.....	26,743	...	667	(D)	(D)	1,304	8,210	40,052
	Secondary products.....	514,214	xxx	xxx	xxx	xxx	xxx	xxx	xxx
28110	Sulfuric acid.....	5,252	xxx	xxx	xxx	xxx	xxx	xxx	xxx
28121	Chlorine.....	6,129	xxx	xxx	xxx	xxx	xxx	xxx	xxx
28123	Sodium hydroxide (caustic soda).....	20,949	xxx	xxx	xxx	xxx	xxx	xxx	xxx
28191	Synthetic ammonia, nitric acid, ammonium compounds.....	19,737	xxx	xxx	xxx	xxx	xxx	xxx	xxx
28193	Inorganic acids, except nitric and sulfuric.....	13,773	xxx	xxx	xxx	xxx	xxx	xxx	xxx
28195	Other potassium and sodium compounds.....	11,700	xxx	xxx	xxx	xxx	xxx	xxx	xxx
28197	Other inorganic chemicals.....	7,269	xxx	xxx	xxx	xxx	xxx	xxx	xxx
28221	Cyclic (coal tar) intermediates.....	111,792	xxx	xxx	xxx	xxx	xxx	xxx	xxx
28222	Cyclic (coal tar) dyes.....	38,317	xxx	xxx	xxx	xxx	xxx	xxx	xxx
28235	Synthetic resins, except protective coatings.....	99,683	xxx	xxx	xxx	xxx	xxx	xxx	xxx
28240	Synthetic (chemical) rubber.....	23,087	xxx	xxx	xxx	xxx	xxx	xxx	xxx
28332	Inorganic and organic medicinals, uncompounded-bulk.....	15,908	xxx	xxx	xxx	xxx	xxx	xxx	xxx
28422	Synthetic organic detergents, bulk.....	7,779	xxx	xxx	xxx	xxx	xxx	xxx	xxx
28430	Sulfonated oils and fats, and assistants.....	2,031	xxx	xxx	xxx	xxx	xxx	xxx	xxx
28931	Perfumes, toilet waters, and colognes.....	6,352	xxx	xxx	xxx	xxx	xxx	xxx	xxx
2896-	Compressed and liquefied gases.....	3,472	xxx	xxx	xxx	xxx	xxx	xxx	xxx
28993	Chemical specialties.....	5,306	xxx	xxx	xxx	xxx	xxx	xxx	xxx
29116	Liquefied petroleum gases.....	24,342	xxx	xxx	xxx	xxx	xxx	xxx	xxx
	Other secondary products.....	1691,366	xxx	xxx	xxx	xxx	xxx	xxx	xxx
	Miscellaneous receipts.....	9,014	xxx	xxx	xxx	xxx	xxx	xxx	xxx
	Contract and commission work.....	3,929	xxx	xxx	xxx	xxx	xxx	xxx	xxx
	Scrap.....	4,108	xxx	xxx	xxx	xxx	xxx	xxx	xxx
	Other.....	977	xxx	xxx	xxx	xxx	xxx	xxx	xxx

xxx Not applicable.

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>Of this figure, 75 percent consists of the following product classes: 28221, Cyclic (coal tar) intermediates; and 28512, Industrial product finishes and special coatings.<sup>2</sup>Includes shipments (in thousands of dollars) by the following industries: \$111,792 by Industry 2829, Organic Chemicals, N.E.C.; \$8,824 by Industry 2823, Plastics Materials; and \$41,661 by Industry 2911, Petroleum Refining.<sup>3</sup>Includes \$38,317 thousand shipped by establishments classified in Industry 2829, Organic Chemicals, N.E.C.<sup>4</sup>Includes \$5,581 thousand shipped by establishments classified in Industry 2852, Inorganic Color Pigments.<sup>5</sup>Of this figure, 91 percent consists of the following product classes: 28110, Sulfuric acid; 28123, Sodium hydroxide (caustic soda); 28195, Other potassium and sodium compounds; 28210, Cyclic (coal tar) crudes; 2823-, Plastics materials; 28260, Explosives; 28292, Miscellaneous cyclic chemicals; 28422, Synthetic organic detergents, bulk; 28970, Insecticides and fungicides for agricultural use; and 28992, Weed killers (herbicidal preparations).<sup>6</sup>Includes \$23,087 thousand shipped by establishments classified in Industry 2829, Organic Chemicals, N.E.C.<sup>7</sup>Represents shipments by establishments classified in Industry 3971, Plastics Products, N.E.C.<sup>8</sup>Includes shipments (in thousands of dollars) by the following industries: \$5,077 by Industry 2295, Coated Fabrics, Except Rubberized; \$10,654 by Industry 3099, Rubber Industries, N.E.C.; and \$11,996 by Industry 3971, Plastics Products, N.E.C.<sup>9</sup>Includes shipments (in thousands of dollars) by the following industries: \$99,683 by Industry 2829, Organic Chemicals, N.E.C.; and \$2,142 by Industry 3971, Plastics Products, N.E.C.<sup>10</sup>Includes shipments (in thousands of dollars) by the following industries: \$12,186 by Industry 2851, Paints and Varnishes, and \$5,215 by Industry 3971, Plastics Products, N.E.C.<sup>11</sup>Of this figure, 87 percent consists of the following product classes: 28191, Synthetic ammonia, nitric acid, ammonium compounds; 28195, Other potassium and sodium compounds; 28197, Other inorganic chemicals; 28210, Cyclic (coal tar) crudes; 28240, Synthetic (chemical) rubber; 28253, Non-cellulosic synthetic fibers, except glass; 28292, Miscellaneous cyclic chemicals; 28295, Pesticides and other organic agricultural chemicals; 28296, Other industrial organic chemicals; and 28424, Polishing preparations and related products.<sup>12</sup>Of this figure, 99 percent consists of the following product classes: 28233, Regenerated cellulosic products, except rayon; 28235, Synthetic resins, except protective coatings; and 28293, Miscellaneous acyclic chemicals.<sup>13</sup>Principally 28110, Sulfuric acid and 28193, Inorganic acids, except nitric and sulfuric.<sup>14</sup>Includes \$10,644 thousand shipped by establishments classified in Industry 2897-, Insecticides and Fungicides.<sup>15</sup>Includes shipments (in thousands of dollars) by the following industries: \$8,170 by Industry 2911, Petroleum Refining and \$5,248 by Industry 2842, Clearing and Polishing Products.<sup>16</sup>Of this figure, 85 percent consists of the following product classes: 20942, Other starch, including reprocessed; 28194, Aluminum compounds; 28223, Synthetic organic pigments, lakes, and toners; 28231, Cellulosic plastics materials; 28236, Other plastics and resin materials; 28253, Non-cellulosic synthetic fibers, except glass; 28260, Explosives; 28414, Glycerin; 28941, Glues and adhesives; 29522, Asphalt and tar coatings, cements, and pitches; 30310, Reclaimed rubber; and 30995, Other rubber products.

## MANUFACTURES—INDUSTRY STATISTICS

Table 6A.—QUANTITY AND VALUE OF PRODUCTS SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, FOR THE UNITED STATES: 1954 AND 1947

Product code	Product	1954 value (\$1,000)			1947 value of shipments including interplant transfers (\$1,000)		
		Shipments including interplant transfers	Commercial shipments only	Interplant transfers only			
2821011	Tar, tar crudes, and tar pitches <sup>1</sup> .....	87,426	76,644	10,782	65,979		
2822---	Intermediates and organic colors, total.....	691,312	xxx	xxx	378,942		
2822111	Cyclic (coal tar) intermediates.....	466,631	315,608	151,023	188,411		
2822211	Cyclic (coal tar) dyes.....	156,262	150,874	5,388	149,208		
2822311	Synthetic organic pigments, lakes, and toners.....	68,419	11,182	57,237	37,887		
2822000	Intermediates, dyes, color lakes and toners, not specified by kind.....	...	...	...	3,436		
2829---	Industrial organic chemicals, n.e.c., total.....	2,082,231	xxx	xxx	965,896		
28291	Ethyl alcohol, industrial <sup>2</sup> .....	26,875	18,394	8,481	<sup>3</sup> 145,953		
2829111	Pure (natural).....	10,806	9,167	1,639	<sup>3</sup> 60,316		
2829151	Denatured (special or complete) <sup>4</sup> .....	16,069	9,227	6,842	<sup>3</sup> 85,637		
2829211	Miscellaneous cyclic (coal tar) chemical products.....	85,974	76,582	9,392	<sup>5</sup> 50,821		
2829311	Miscellaneous acyclic chemicals and chemical products.....	1,569,225	1,133,820	435,405	<sup>5</sup> 585,635		
28294	Synthetic organic chemicals, n.e.c.....	263,221	233,605	29,616	<sup>6</sup> 108,120		
2829411	Flavor and perfume materials.....	47,615	(D)	(D)	23,378		
2829431	Rubber-processing chemicals.....	61,395	(D)	(D)	43,324		
2829451	Plasticizers.....	99,459	82,518	16,941	41,418		
2829471	Bulk surface active agents, other than sulfonated oils and fats and other than detergents (emulsifiers penetrants, wetting agents, etc.).....	54,752	53,847	905	( <sup>6</sup> )		
2829511	Pesticides and other organic agricultural chemicals (excluding preparations).....	96,884	89,492	7,392	( <sup>5</sup> )		
28296	Other industrial organic chemicals, n.e.c.....	40,052	xxx	xxx	61,837		
2829671	Reagent and high purity grades of organic chemicals refined from purchased technical grades.....	4,537	xxx	xxx	(NA)		
2829611	Flavor oil mixtures and blends.....	5,280	xxx	(NA)	(NA)		
2829631	Other, including natural organic chemicals, n.e.c.....	30,235	(NA)	(NA)	61,837		
2829651		...	...	...	13,530		
2829000	Organic chemicals, not specified by kind.....	...	...	...	...		
		1954		1947			
		Production for all purposes (quantity)	Total shipments including interplant transfers		Production for all purposes (quantity)	Total shipments including interplant transfers	
			Quantity	Value		Quantity	Value
		(1,000 pounds)	(1,000 pounds)	(\$1,000)	(1,000 pounds)	(1,000 pounds)	(\$1,000)
2823---	Plastics materials, total.....	xxx	xxx	1,463,460	xxx	xxx	559,583
28231	Cellulose plastics material (including fillers, plasticizers and extenders).....	xxx	xxx	82,354	88,804	86,213	60,702
	Cellulose acetate and mixed ester (including acetate butyrate and propionate plastics):						
2823111	Continuous sheets (under 0.003 gauge).....	16,742	15,951	14,526	7,149	7,204	5,022
2823113	Continuous sheets (0.003 gauge and upward).....	12,654	12,928	12,268	7,981	7,844	7,937
2823119	All other sheets.....	4,289	3,944	4,464	4,181	4,042	4,898
2823121	Rods and tubes.....	70,832	70,358	36,793	(7)	(7)	(7)
2823123	Molding and extrusion materials.....						
2823125	Other uses.....	6,045	6,045	2,472	(7)	(7)	(7)
	Nitrocellulose:						
2823131	Sheets.....	4,734	4,462	7,564	9,812	9,134	10,964
2823135	Rods and tubes.....	774	718	1,066	2,978	2,801	4,016
2823139	Other uses.....						
2823198	Other cellulose plastics (including methyl and ethyl cellulose and related plastics) <sup>8</sup> .....	5,444	5,489	3,201	756,703	755,188	727,865
28232	Vulcanized fiber.....	xxx	xxx	12,004	xxx	xxx	17,086
2823211	Sheets.....	35,852	31,113	9,759	53,635	49,371	13,574
2823251	Rods, tubes, and hollowware (semi-manufactured).....	(NA)	(NA)	2,245	(NA)	(NA)	3,512
2823298	Other vulcanized fiber.....						
28233	Regenerated cellulosic products, including cellophane (excluding rayon and sausage casings).....	xxx	xxx	217,012	xxx	xxx	(NA)
2823311	Sheets (cellophane).....	355,302	350,494	189,729	(NA)	(NA)	( <sup>9</sup> )
2823351	Sponges.....	5,520	5,267	11,180	6,382	6,478	7,549
2823331	Caps and bands.....	xxx	xxx	16,103			
2823398	Other.....						

See footnotes at end of table.



Table 6A.—QUANTITY AND VALUE OF PRODUCTS SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, FOR THE UNITED STATES: 1954 AND 1947—Continued

Product code	Product	1954			1947					
		Production for all purposes (quantity)	Total shipments including interplant transfers		Production for all purposes (quantity)	Total shipments including interplant transfers				
			Quantity	Value		Quantity	Value			
		(1,000 pounds)	(1,000 pounds)	(\$1,000)	(1,000 pounds)	(1,000 pounds)	(\$1,000)			
2823---	Plastic materials--Continued									
28234	Vinyl and polyethylene unsupported film and sheeting (excluding floor and wall coverings) (including fillers, plasticizers, and extenders) <sup>10</sup> .....	xxx	xxx	169,067	xxx	xxx	29,592			
	Vinyl:									
2823411	Under 3.0 mils.....	27,116	26,955	22,175	}	xxx	116,200			
2823413	3.0-3.9 mils.....	35,633	35,835	19,122						
2823415	4.0-5.9 mils.....	43,007	42,986	21,446						
2823417	6.0-9.9 mils.....	15,495	15,937	9,357						
2823421	10.0-14.9 mils.....	50,031	48,055	27,378						
2823423	15.0-19.9 mils.....	33,509	33,339	16,367	}	xxx	33,000			
2823425	20.0 mils and over (excluding floor and wall coverings)....	20,855	20,475	15,327						
	Polyethylene:									
2823451	Under 3.0 mils.....	47,024	46,196	31,859	}	(NA)	(NA)			
2823453	3.0-5.9 mils.....	7,644	7,582	4,913						
2823455	6.0-14.9 mils.....	1,107	1,097	741						
2823457	Over 15.0 mils.....	278	257	289						
2823400	Vinyl and polyethylene unsupported film and sheeting (excluding floor and wall coverings), not specified by kind.....	xxx	xxx	93	xxx	...	...			
28235	Synthetic resins (excluding resins for protective coatings).....	xxx	xxx	765,193	xxx	xxx	264,306			
	Phenolic and other tar acid resins (including mixtures): <sup>12</sup>									
2823511	Casting.....	5,690	5,689	3,151	(13)	(13)	(13)			
2823513	Laminating.....	71,746	71,821	18,933	29,667	29,305	8,678			
2823515	Adhesive.....	67,086	67,204	14,904	28,482	27,733	6,999			
2823517	Molding materials.....	184,372	183,482	38,073	213,164	204,881	37,036			
2823519	Other uses.....	70,854	71,052	18,850	1343,394	1342,170	1312,690			
	Urea and melamine resins (including dimethylol urea): <sup>12</sup>									
2823521	Adhesive.....	90,585	90,033	15,808	53,100	52,250	10,617			
2823523	Textile and paper treating resins.....	60,602	61,718	12,206	16,370	15,633	4,698			
2823525	Laminating.....	102,935	103,562	36,533	44,272	43,238	16,453			
2823527	Molding materials.....									
2823529	Other uses.....									
	Vinyl resins: <sup>14</sup>									
2823531	Safety glass sheeting.....	(15)	(15)	(15)	}	51,312	47,783			
2823533	For sheeting.....	125,838	121,663	47,806						
2823535	Textile and paper coating resins.....	22,086	18,832	8,248						
2823537	Adhesive.....	32,955	28,869	11,515						
2823541	Molding and extrusion material.....	162,432	151,663	56,924						
2823543	Other uses.....	15204,925	15197,836	1596,979	9,356	8,784	5,523			
	Polystyrene resins:									
2823551	Molding materials <sup>12</sup> .....	323,663	316,673	102,356	90,887	84,592	24,433			
2823553	Reinforcing.....	xxx	xxx	(16)	xxx	xxx	(16)			
2823555	Other uses.....									
2823561	Polyethylene (except sheeting and film) other uses excluding protective coatings and monofilaments.....	84,914	84,217	35,158	(NA)	(NA)	(NA)			
	Other synthetic resins benzenoid and nonbenzenoid not listed above (excluding synthetic rubbers):									
2823571	Molding materials <sup>12</sup> .....	xxx	xxx	99,803	}	xxx	1684,965			
2823575	Other uses.....	xxx	xxx	16145,870						
2823500	Synthetic resins (excluding resins for protective coatings) not specified by kind.....	xxx	xxx	2,076	xxx	xxx	(17)			
28236	Plastics and resin materials, n.e.c.....	xxx	xxx	217,141	}	xxx	9177,313			
	Casein plastics:									
2823611	For adhesives.....	21,571	21,393	5,353						
2823615	For other uses.....									
2823631	Protective coatings (alkyd and other synthetic resins).....	xxx	xxx	158,207						
2823698	Other plastics and resin materials, not elsewhere classified (excluding photographic film, rayon or nitro-explosives)....	xxx	xxx	1853,581						
2823000	Plastics materials, not specified by kind.....	xxx	xxx	689	xxx	xxx	173,035			
2824---	Synthetic (chemical) rubbers, total <sup>19</sup> .....	xxx	xxx	392,194	xxx	xxx	253,043			
2824011	Excluding carbon black.....	1,285,117	1,328,942	348,610	}	xxx	253,043			
2824051	Including carbon black.....	219,841	225,643	43,584						

See footnotes at end of table.



## MANUFACTURES--INDUSTRY STATISTICS

Table 6A.—QUANTITY AND VALUE OF PRODUCTS SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, FOR THE UNITED STATES: 1954 AND 1947—Continued

Product code	Product	1954			1947		
		Production for all purposes (quantity)	Total shipments including interplant transfers		Production for all purposes (quantity)	Total shipments including interplant transfers	
			Quantity	Value		Quantity	Value
		(1,000 pounds)	(1,000 pounds)	(\$1,000)	(1,000 pounds)	(1,000 pounds)	(\$1,000)
2825---	Synthetic fibers, total.....	xxx	xxx	1,202,343	xxx	xxx	2,677,712
	Rayon and acetate products.....	1,123,367	1,158,646	640,731	998,109	991,387	585,795
	By denier, packaged:						
2825X11	45 and finer (47 and less).....	25,996	26,024	25,108	21,939	21,596	24,615
2825X13	50 (48 to 62).....	65,857	68,114	62,314	102,283	101,754	91,450
2825X15	75 (63 to 87).....	29,521	33,320	29,693	91,109	91,098	75,943
2825X17	100 (88 to 112).....	5,590	6,100	5,029	34,220	34,569	25,850
2825X21	120 (113 to 137).....	162,805	171,586	121,866	185,338	184,582	121,127
2825X23	150 (138 to 162).....	4,042	4,437	3,595			
2825X25	200 (163 to 237).....	41,168	43,487	27,034			
2825X27	250 (238 to 374).....	9,596	10,265	6,170			
2825X31	450 (375 to 524).....	8,578	9,012	5,457	312,044	312,167	162,897
2825X33	600 (525 to 749).....						
2825X35	900 (750 to 999).....	360,523	367,546	221,075			
2825X37	1,100 (1,000 to 1,374).....						
2825X39	1,650 (1,375 and over).....						
2825X41	Staple.....	379,344	384,779	127,103	222,909	221,004	78,259
2825X51	Tow.....				5,624	4,710	1,724
2825X61	Waste (including staple waste).....				21,764	18,817	2,712
2825X98	Other rayon and acetate products, including "horsehair" rayon.	30,347	33,976	6,287	879	1,090	1,218
28251	Acetate yarn.....	272,849	283,629	195,953	282,058	279,956	199,686
	Packaged yarn, by denier:						
2825111	45 and finer (47 and less).....	24,332	24,394	23,342	16,978	16,651	17,637
2825113	55 (48 to 62).....	56,198	58,397	52,980	70,191	69,727	60,354
2825115	75 (63 to 87).....	18,607	19,988	17,915	53,845	54,205	42,676
2825117	100 (88 to 112).....	2,379	2,552	2,104			
2825121	120 (113 to 137).....	78,943	80,968	58,568	65,226	64,849	41,553
2825123	150 (138 to 162).....	2,526	2,720	2,104			
2825125	200 (163 to 237).....	14,544	14,895	9,884			
2825127	250 (238 to 374).....	1,658	1,850	1,177			
2825131	450 (375 to 524).....	(21)	(21)	(21)	15,456	15,261	10,374
2825133	600 (525 to 749).....						
2825135	900 (750 to 999).....	3,345	3,110	1,985			
2825137	1,100 (1,000 to 1,374).....						
2825139	1,650 (1,375 and over).....						
2825141	Staple.....	(21)	(21)	(21)	60,256	59,106	26,840
2825151	Tow.....	(21)	(21)	(21)	8	8	4
2825198	Other acetate products, n.e.c.....	(21)	(21)	(21)	98	149	248
28252	Rayon yarn, viscose and cuprammonium process.....	850,518	875,017	444,778	716,051	711,431	386,109
	Packaged yarn, by denier:						
2825211	45 and finer (47 and less).....	1,664	1,630	1,766	4,961	4,945	6,978
2825213	50 (48 to 62).....	9,659	9,717	9,334	32,092	32,027	31,096
2825215	75 (63 to 87).....	10,914	13,332	11,778	71,484	71,462	59,117
2825217	100 (88 to 112).....	3,211	3,548	2,925			
2825221	125 (113 to 137).....	83,862	90,618	63,298	120,112	119,733	79,574
2825223	150 (138 to 162).....	1,516	1,717	1,491			
2825225	200 (163 to 237).....	26,624	28,592	17,150	42,015	41,985	23,471
2825227	250 (238 to 374).....	7,938	8,415	4,993	4,616	4,590	2,543
2825231	450 (375 to 524).....	(22)	(22)	(22)	10,174	10,157	5,160
2825233	600 (525 to 749).....	16,761	16,799	10,312			
2825235	900 (750 to 999).....	23,667	24,129	14,738	115,867	116,482	59,530
2825237	1,100 (1,000 to 1,374).....	316,750	323,508	194,040	123,916	123,692	61,819
2825239	1,650 (1,375 and over).....						
2825241	Staple.....	(22)	(22)	(22)	162,653	161,898	51,419
2825251	Tow.....	(22)	(22)	(22)	5,616	4,702	1,720
2825261	Waste (including staple waste).....						
2825298	Other rayon products, n.e.c., including "horsehair" straw, etc.	(22)	(22)	(22)	22,545	19,758	3,682
28253	Non-cellulosic synthetic fibers other than glass fibers, total...	290,136	282,696	561,612	44,151	43,014	91,917
28253XX	Filament yarn <sup>23</sup> .....	228,021	218,427	470,137	(NA)	(NA)	(NA)
28253XX	Staple, tow and waste.....	62,115	64,269	91,475	(NA)	(NA)	(NA)
2826---	Industrial explosives, total.....	xxx	xxx	183,680	xxx	xxx	119,648
	Industrial explosives:						
2826011	Black blasting powder.....	xxx	12,205	1,884	xxx	38,058	3,118
2826013	Permissibles.....	xxx	71,688	11,217	xxx	(24)	83,286
2826015	High explosives, excluding permissibles.....	xxx	642,694	102,096	xxx		
	Nitroglycerine:						
2826021	For sale as such.....	xxx	1,366		xxx	843	288
2826023	Receipts for contract work in shooting wells, including value of nitroglycerine used.....	xxx	xxx	602	xxx	xxx	1,995

See footnotes at end of table.

## INDUSTRIAL ORGANIC CHEMICALS

28B-19

Table 6A.—QUANTITY AND VALUE OF PRODUCTS SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, FOR THE UNITED STATES: 1954 AND 1947—Continued

Product code	Product	1954			1947		
		Production for all purposes (quantity)	Total shipments including interplant transfers		Production for all purposes (quantity)	Total shipments including interplant transfers	
			Quantity	Value		Quantity	Value
		(1,000 pounds)	(1,000 pounds)	(\$1,000)	(1,000 pounds)	(1,000 pounds)	(\$1,000)
2826--	Industrial explosives--Continued						
2826027	Industrial explosives--Continued						
	Other industrial explosives <sup>25</sup> .....	xxx	25,344	7,949	xxx	15,804	5,268
	Propellants:						
2826031	Smokeless powder.....	xxx	16,987	14,201	xxx		
2826035	Other propellants, including black gun powder.....	xxx	...	1,836	xxx		
	Blasting accessories:						
	Detonators:						
2826043	Blasting caps, electric, delay.....	xxx	30,448	23,331	xxx	27,603	3,768
2826045	Blasting caps, electric, except delay.....	xxx	96,881		xxx	147,713	14,055
2826047	Blasting caps, except electric.....	xxx	103,547		xxx	96,738	1,259
	Fuses:						
2826051	Detonating.....	xxx	521,511	6,375	xxx	527,190	4,467
2826041	Safety.....	xxx			xxx		
2826061	Other blasting accessories.....	xxx	xxx	264,424	xxx	xxx	1,513
2826071	Other explosives.....	xxx	xxx	278,052	xxx	xxx	631

xxx Not applicable.

NA Not available.

D Withheld to avoid disclosing figures of individual companies.

<sup>1</sup>Represents values reported by tar distillers and excludes shipment values for tar, tar crudes and tar pitches reported by establishments classified in Industry 2932, Byproduct Coke Ovens, and Industry 2911, Petroleum Refining.<sup>2</sup>For quantity information refer to the United States Treasury Department, Internal Revenue Service.<sup>3</sup>Value of production.<sup>4</sup>Excludes shipments reported as rubbing alcohol (primary to Industry 2834) and as anti-freeze (primary to Industry 2899). The 1947 figures include an unspecified amount of denatured alcohol for such end uses.<sup>5</sup>Data for code 2829511, "Pesticides and other organic agricultural chemicals," not reported separately in 1947 but included in totals for code 2829211, "Miscellaneous cyclic chemicals," and code 2829311, "Miscellaneous acyclic chemicals."<sup>6</sup>Data for "Other bulk surface agents" not reported separately in 1947 but included in totals for "bulk surface agents, except sulfonated oils and fats, classified as a product primary to Industry 2842.<sup>7</sup>Codes 2823123, 2823125, and 2823139 combined with code 2823198, "Other cellulose plastics."<sup>8</sup>Excludes varnish, lacquer and dope materials as well as regenerated cellulosic products.<sup>9</sup>Code 2823311 combined with code 28236, "Plastics and resin materials, not elsewhere classified."<sup>10</sup>Includes amounts manufactured in establishments which produce resins as well as plants which purchase resins; also includes unspecified amounts made from reprocessed materials.<sup>11</sup>Vinyl sheetings of 6.0 mils are included with vinyl sheeting and film under six mils. Quantity figures converted from data reported originally in square yards.<sup>12</sup>Quantities reported on a "dry basis," defined as the total weight of the material including resins, plasticizers, fillers, extenders, colors, and stabilizers and excluding the weight of water, solvents, and other liquid diluents.<sup>13</sup>Code 2823511 combined with code 2823519, "Phenolic and other tar resins, other uses."<sup>14</sup>Quantities reported on a resin basis, except for safety glass sheeting, data for which are reported on "dry basis."<sup>15</sup>Code 2823531 combined with code 2823543, "Vinyl resins, other uses."<sup>16</sup>Codes 2823553 and 2823555 combined with code 2823575, "Other synthetic resins."<sup>17</sup>Code 2823500 combined with code 2823000, "Plastics materials, n.e.c."<sup>18</sup>Includes values reported for materials custom compounded from purchased resins and reprocessed regenerated cellulose.<sup>19</sup>Excludes data for polyvinyl type and non-vulcanizable elastomers, classified by respondents as plastics materials.<sup>20</sup>Revised; excludes value of cellulosic products such as sausage casings and sponges formerly considered as primary products of this industry but now classified as primary to Industries 2014, Sausage Casing, and 2823, Plastics Materials, respectively.<sup>21</sup>Codes 2825133, 2825141, 2825151, and 2825198 included in product class code 28251, "Acetate yarn."<sup>22</sup>Codes 2825233, 2825241, 2825251, 2825261, and 2825298 included in product class code 28252, "Rayon yarn."<sup>23</sup>Includes non-textile monofilaments, such as bristles sutures, and leaders.<sup>24</sup>According to the United States Bureau of Mines, 122,348,000 pounds of "permissibles" and 476,016,000 pounds of "high explosives, except permissibles" were sold for consumption in 1947.<sup>25</sup>Includes liquid oxygen and fuse powder.<sup>26</sup>Includes oil well shaped charges, rivets, lead wire, boosters, squibs, etc.<sup>27</sup>Includes military detonators, jet starters, fuse and explosive assemblies, etc.

Table 6B.—VALUE OF PRODUCT CLASSES SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, BY DIVISIONS AND STATES FOR 1954, AND UNITED STATES TOTALS FOR EARLIER YEARS

(In thousands of dollars. Shipments are shown for selected product classes which are economically significant and production of which is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (Table 2) and they are not miscellaneous or "not specified by type" classes. For each product class, States are listed only if the value of shipments is more than \$1 million and the figure does not disclose individual company information. Additional States which had shipments of more than \$1 million of the individual product classes are listed in footnote 1.)

Product class, region, and State <sup>1</sup>	Value of shipments	Product class, region, and State <sup>1</sup>	Value of shipments	Product class, region, and State <sup>1</sup>	Value of shipments
<u>Cyclic (coal tar) intermediates (28221)</u>		<u>Synthetic resins, except protective coatings (28235)—Continued</u>		<u>Miscellaneous acyclic chemicals (28293)—Continued</u>	
1954 United States, total.....	466,631	North Central.....	129,864	Middle Atlantic.....	335,759
1947 United States, total.....	188,411	Ohio.....	42,775	New York.....	89,750
1954		Illinois.....	20,833	New Jersey.....	218,350
New England.....	8,449	South.....	242,842	Pennsylvania.....	27,658
Middle Atlantic.....	140,730	Delaware.....	2,939	East North Central.....	125,872
New York.....	14,614	North Carolina.....	3,126	Ohio.....	19,757
New Jersey.....	76,884	Pacific.....	19,017	Michigan.....	51,761
Pennsylvania.....	49,231	California.....	9,942	West North Central.....	10,753
North Central.....	121,735	<u>Other plastics and resin materials (28236)</u>		South Atlantic.....	312,942
Ohio.....	17,175	1954 United States, total.....	217,141	Virginia.....	35,238
Illinois.....	40,101	1947 United States, total.....	177,313	Georgia.....	2,927
South Atlantic.....	30,602	1954		East South Central.....	76,601
West Virginia.....	29,693	New England.....	20,670	Kentucky.....	19,458
East South Central.....	15,816	Massachusetts.....	18,038	West South Central.....	644,465
West South Central.....	106,808	Middle Atlantic.....	106,095	West.....	41,649
West.....	42,491	New York.....	17,830	<u>Other synthetic organic chemicals (28294)</u>	
<u>Cyclic (coal tar) dyss (28222)</u>		New Jersey.....	56,729	1954 United States, total.....	263,221
1954 United States, total.....	156,262	Pennsylvania.....	31,536	1947 United States, total.....	108,120
1947 United States, total.....	149,208	North Central.....	59,545	1954	
1954		Ohio.....	13,812	New England.....	27,982
New England.....	5,582	Illinois.....	6,460	Middle Atlantic.....	92,874
Middle Atlantic.....	122,321	Michigan.....	35,700	New York.....	7,626
New Jersey.....	78,500	Wisconsin.....	1,953	New Jersey.....	52,676
North Central.....	16,807	South Atlantic.....	2,741	Pennsylvania.....	32,571
South.....	11,552	East South Central.....	5,941	North Central.....	73,407
<u>Vinyl and polyethylene unsupported film and sheets (28234)</u>		West South Central.....	9,986	Ohio.....	28,853
1954 United States, total.....	169,067	Texas.....	9,986	Michigan.....	11,501
1947 United States, total.....	29,592	Pacific.....	12,163	South.....	55,135
1954		<u>Miscellaneous cyclic chemicals (28292)</u>		West Virginia.....	32,396
New England.....	32,884	1954 United States, total.....	85,974	Texas.....	4,233
Massachusetts.....	19,471	1947 United States, total.....	50,821	West.....	13,823
Middle Atlantic.....	78,459	1954		<u>Pesticides and other organic agricultural chemicals (28295)</u>	
New York.....	38,773	New England.....	1,624	1954 United States, total.....	96,884
New Jersey.....	21,809	Rhode Island.....	1,456	1954	
Pennsylvania.....	17,877	Middle Atlantic.....	28,483	Northeast.....	33,238
East North Central.....	50,542	New York.....	1,872	New Jersey.....	14,262
Ohio.....	10,678	New Jersey.....	19,863	North Central.....	24,930
South.....	2,424	Pennsylvania.....	6,748	South.....	28,980
Pacific.....	4,758	North Central.....	25,470	West Virginia.....	5,889
California.....	4,758	Ohio.....	4,003	West.....	9,736
<u>Synthetic resins, except protective coatings (28235)</u>		Illinois.....	10,045		
1954 United States, total.....	765,193	South.....	24,522		
1947 United States, total.....	264,306	West.....	5,875		
1954		<u>Miscellaneous acyclic chemicals (28293)</u>			
New England.....	118,035	1954 United States, total.....	1,569,225		
Middle Atlantic.....	255,435	1947 United States, total.....	585,635		
New York.....	61,109	1954			
New Jersey.....	82,066	New England.....	21,184		
Pennsylvania.....	112,260	Massachusetts.....	12,271		

<sup>1</sup>For the specified product classes, shipments of over \$1 million were reported for the States listed but the exact figures are withheld to avoid disclosure of individual company figures: 28221, Massachusetts, Connecticut, Indiana, Michigan, Missouri, Tennessee, Alabama, Louisiana, Texas, Nevada, and California; 28222, Massachusetts, Rhode Island, New York, Pennsylvania, Ohio, Michigan, North Carolina, and Tennessee; 28234, Rhode Island, Connecticut, Indiana, Illinois, Michigan, and Virginia; 28235, Massachusetts, Connecticut, Indiana, Michigan, Wisconsin, Minnesota, Iowa, Virginia, West Virginia, Kentucky, Tennessee, Alabama, Mississippi, Louisiana, Texas, Washington, and Oregon; 28236, Connecticut, Indiana, Georgia, Florida, Kentucky, Tennessee, Alabama, Mississippi, and California; 28292, Iowa, Missouri, Nebraska, West Virginia, Tennessee, Louisiana, and California; 28293, Rhode Island, Connecticut, Indiana, Illinois, Missouri, Nebraska, Kansas, Delaware, Maryland, West Virginia, South Carolina, Tennessee, Alabama, Louisiana, Texas, Colorado, Nevada, Washington, and California; 28294, Massachusetts, Connecticut, Indiana, Illinois, Iowa, Missouri, Delaware, North Carolina, Tennessee, and California; 28295, Connecticut, New York, Pennsylvania, Illinois, Michigan, Missouri, Georgia, Alabama, Arkansas, Texas, and California.



## INDUSTRIAL ORGANIC CHEMICALS

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Table 7.—MATERIALS CONSUMED, BY KIND: 1954 AND 1947

Code	Description of materials	Basis	Unit of measure	1954			Materials made and consumed in same plant (quantity)	1947 consumption of materials received from other establishments
				Total consumption of materials (quantity)	Consumption of materials received from other establishments			
					Quantity	Delivered cost (\$1,000)		
INDUSTRY 2822—INTERMEDIATES AND ORGANIC COLORS								
	Materials, containers, and supplies, total..			xxx	xxx	323,198	xxx	xxx
Inorganic chemicals:								
281931	Ammonia, anhydrous.....	100% NH <sub>3</sub> ....	Short ton.....	(D)	58,681	5,579	(D)	xxx
281211	Chlorine.....	100% Cl <sub>2</sub> ....	...do.....	253,307	48,113	3,002	205,194	xxx
281231	Soda ash.....	98-100% Na <sub>2</sub> CO <sub>3</sub> ....	...do.....	36,514	36,514	1,507	...	xxx
281221	Caustic soda.....	100% NaOH....	...do.....	(D)	91,003	5,802	(D)	xxx
281111	Sulfuric acid, except spent acid.....	100% H <sub>2</sub> SO <sub>4</sub> ...	...do.....	517,961	209,878	4,895	308,083	xxx
Organic chemicals:								
282923	Alcohol, ethyl, denatured.....			(NA)	(NA)	751	(D)	xxx
282925	Alcohol, amyl, butyl, methyl, propyl.....		Thousand gallons.	(D)	4,561	1,600	(D)	xxx
282211	Aniline.....	100%.....	Thousand pounds	51,588	9,610	1,864	41,978	xxx
293231	Benzol (benzene).....	100% C <sub>6</sub> H <sub>6</sub> ....	...do.....	913,405	850,045	52,452	63,360	xxx
282221	Chlorobenzene.....	100%.....	...do.....	(D)	9,582	1,099	(D)	xxx
282945	Ethylene glycol.....	100%.....	...do.....	624	624	93	...	xxx
282951	Formaldehyde.....	37% HCHO....	...do.....	39,944	39,944	1,489	...	xxx
282151	Naphthalene, grades of 77.5° C or higher.....	100%.....	...do.....	(D)	138,456	7,563	(D)	xxx
282241	Nitrobenzene.....	100%.....	...do.....	115,899	3,530	392	112,369	xxx
282251	Phenol.....	100%.....	...do.....	(D)	11,315	1,631	(D)	xxx
282261	Phthalic anhydride.....	100%.....	...do.....	(D)	6,700	1,311	(D)	xxx
282131	Tar oil crude.....	100%.....	...do.....	249,729	249,729	10,758	...	xxx
Other materials:								
147711	Sulfur, crude.....		Long ton.....	119,133	119,133	4,128	xxx	xxx
291131	Fuel oil, used as raw materials.....		42 gal. barrels	142,240	142,240	379	xxx	xxx
131311	Natural gas, used as raw materials.....		Million cu. ft.	(D)	(D)	(D)	xxx	xxx
970000	All other materials and components, parts, containers, and supplies consumed, including materials, etc., not specified by kind.....			xxx	xxx	216,903	xxx	xxx
INDUSTRY 2823—PLASTICS MATERIALS <sup>1</sup>								
	Materials, containers and supplies, total...			xxx	xxx	621,428	xxx	xxx
282923	Alcohol, ethyl, denatured.....			(NA)	(NA)	3,414	xxx	(NA)
282925	Alcohols, amyl, butyl, methyl, and propyl.....		Thousand gallons.	31,989	31,989	10,983	xxx	(NA)
291165	Butadiene.....	100%.....	Thousand pounds	43,890	43,890	6,759	...	(NA)
282937	Cellulose acetate.....	100%.....	...do.....	78,751	78,751	23,301	...	(NA)
282951	Formaldehyde.....	37% HCHO....	...do.....	491,929	300,906	10,726	191,023	294,639
284111	Glycerine.....	100%.....	...do.....	51,765	51,765	15,982	...	20,111
281921	Hydrochloric acid.....	100% HCl....	Short ton.....	(D)	10,590	909	(D)	(NA)
282955	Maleic anhydride.....	100%.....	Thousand pounds	12,722	12,722	3,300	...	...
282251	Phenol.....	100%.....	...do.....	(D)	164,720	23,367	(D)	1-8,962
282261	Phthalic anhydride.....	100%.....	...do.....	(D)	50,559	9,600	(D)	19,754
281221	Caustic soda.....	100% NaOH....	Short ton.....	139,589	139,543	8,755	(D)	(D)
282271	Styrene.....	100%.....	Thousand pounds	(D)	295,088	63,476	(D)	249,088
281111	Sulfuric acid, except spent acid.....	100% H <sub>2</sub> SO <sub>4</sub> ...	Short ton.....	(D)	174,934	4,062	(D)	(NA)
282965	Urea.....	100%.....	Thousand pounds	86,531	86,531	5,626	xxx	(NA)
261115	Wood pulp.....	Air dry.....	Short ton.....	179,233	179,233	33,190	xxx	108,592
970000	All other materials and components, parts, containers, and supplies consumed, including materials, etc., not specified by kind.....			xxx	xxx	397,978	xxx	xxx
INDUSTRY 2824—SYNTHETIC RUBBER								
	Materials, containers and supplies, total...			xxx	xxx	200,002	xxx	xxx
291171	Liquefied petroleum gases.....	(42-gallons).	Thousand barrels.	xxx	2,376	51,287	xxx	xxx
281221	Caustic soda.....	100% NaOH....	Short tons.....	xxx	5,218	378	xxx	xxx
282271	Styrene.....	100%.....	Thousand pounds	xxx	204,223	31,532	xxx	xxx
970000	All other materials and components, parts, containers, and supplies.....			xxx	xxx	116,805	xxx	xxx

See footnotes at end of table.



Table 7.—MATERIALS CONSUMED, BY KIND: 1954 AND 1947—Continued

Code	Description of materials	Basis	Unit of measure	1954			1947 consumption of materials received from other establishments
				Total consumption of materials (quantity)	Consumption of materials received from other establishments		
					Quantity	Delivered cost (\$1,000)	
	INDUSTRY 2825—SYNTHETIC FIBERS <sup>3</sup>						
	Materials, containers and supplies, total..			xxx	xxx	496,027	xxx
282911	Acetic anhydride (net after recovery).....	100%.....		xxx	75,873	15,264	xxx
282935	Carbon disulfide.....	100% CS <sub>2</sub> .....		xxx	132,737	14,216	xxx
261131	Cotton pulp (purified linters).....	Air dry.....		xxx	88,744	20,785	xxx
281221	Caustic soda.....	100% NaOH.....		xxx	380,071	22,147	xxx
281971	Sodium sulfate.....	100% Na <sub>2</sub> SO <sub>4</sub> .....		xxx	2,250	50	xxx
281111	Sulfuric acid, except spent acid.....	100% H <sub>2</sub> SO <sub>4</sub> .....		xxx	541,873	12,107	xxx
261115	Wood pulp (dissolving).....	Air dry.....		xxx	472,179	92,795	xxx
970000	All other materials and components, parts, containers and supplies, total.....			xxx	xxx	318,663	xxx
	INDUSTRY 2826—EXPLOSIVES						
	Materials, containers and supplies, total...			xxx	xxx	172,978	xxx
281931	Ammonia, anhydrous.....	100% NH <sub>3</sub> .....	Short ton.....	145,822	145,822	14,222	...
261131	Cotton pulp.....	Air dry.....	...do.....	16,964	16,964	4,000	...
284111	Glycerine.....	100%.....	Thousand pounds	23,206	23,206	7,068	...
281925	Nitric acid.....	100% HNO <sub>3</sub> .....	Short tons.....	429,307	27,260	2,032	402,047
281221	Sodium hydroxide (caustic soda).....	100% NaOH.....	...do.....	2,542	2,542	208	...
281111	Sulfuric acid, except spent acid.....	100% H <sub>2</sub> SO <sub>4</sub> .....	...do.....	365,824	92,990	2,116	272,834
261115	Wood pulp (excluding wood flour).....	Air dry.....	...do.....	33,139	33,139	5,234	...
970000	All other materials and components, parts containers, and supplies.....			xxx	xxx	138,098	xxx
	INDUSTRY 2829—ORGANIC CHEMICALS, N.E.C.						
	Materials, containers and supplies, total...			xxx	xxx	946,279	xxx
	Inorganic chemicals:						
281931	Ammonia, anhydrous.....	100% NH <sub>3</sub> .....	Short ton.....	(D)	82,036	7,973	(D)
281211	Chlorine.....	100% Cl <sub>2</sub> .....	...do.....	1,314,838	662,127	36,807	652,711
281231	Soda ash.....	98-100% Na <sub>2</sub> CO <sub>3</sub> .....	...do.....	35,125	35,125	1,259	...
281221	Caustic soda.....	100% NaOH.....	...do.....	489,317	212,872	11,561	276,445
281111	Sulfuric acid, except spent acid.....	100% H <sub>2</sub> SO <sub>4</sub> .....	...do.....	610,122	428,078	9,134	182,044
	Organic chemicals:						
282921	Alcohol, ethyl, pure.....			(NA)	(NA)	2,587	(NA)
282923	Alcohol, ethyl, denatured.....			(NA)	(NA)	15,594	(NA)
282925	Alcohol, amyl, butyl, methyl, propyl.....		Thousand gallons.....	198,414	66,671	19,193	131,743
282211	Aniline.....	100%.....	Thousand pounds	(D)	25,555	5,042	(D)
293231	Benzol (benzene).....	100% C <sub>6</sub> H <sub>6</sub> .....	...do.....	(D)	444,261	28,637	(D)
282221	Chlorobenzene.....	100%.....	...do.....	(D)	43,168	3,429	(D)
282951	Formaldehyde.....	37% HCHO.....	...do.....	508,488	108,942	3,636	399,546
282151	Naphthalene, grades of 77.5° C or higher.....	100%.....	...do.....	68,668	68,668	4,116	xxx
282251	Phenol.....	100%.....	...do.....	38,287	38,287	5,586	xxx
282261	Phthalic anhydride.....	100%.....	...do.....	(D)	46,435	9,475	(D)
	Other materials:						
147711	Sulfur, crude.....		Long ton.....	328,639	328,639	11,675	xxx
131311	Natural gas, used as raw material.....		Million cu. ft.	26,337	26,337	3,677	xxx
970000	All other materials and components, parts, containers, and supplies consumed and materials, etc., not specified by kind.....			xxx	xxx	766,898	xxx

xxx Not applicable.

NA Not available.

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>The 1947 figures exclude information for establishments primarily manufacturing regenerated cellulosic products, including cellophane, since these plants in 1947 were classified in Industry 2825, Synthetic Fibers.<sup>2</sup>215,306 thousand pounds of styrene consumed in 1947.<sup>3</sup>The 1947 figures include information for establishments primarily manufacturing regenerated cellulosic products, including cellophane, which are classified in 1954 in Industry 2823, Plastics Materials.<sup>4</sup>21,360 thousand pounds of glycerine consumed in 1947.

## INDUSTRIAL ORGANIC CHEMICALS

28B-23

Table 8.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY INDUSTRY SPECIALIZATION AND PRIMARY PRODUCT CLASS SPECIALIZATION, FOR THE UNITED STATES: 1954

(This table presents selected statistics for establishments classified according to their degree of specialization in products primary to the industry. The establishments are classified in two ways: (1) by industry specialization—the degree of specialization in all primary products of the industry; and (2) by product-class specialization—the degree of specialization in the largest product class of the establishment. The degree of "industry specialization" for an establishment represents the ratio of its primary product shipments to its total product shipments, primary and secondary. The degree of "product-class specialization" for an establishment represents the ratio of its largest product class shipments to its total product shipments, primary and secondary. Data are not shown for some industries, product classes, and specialization ranges for a variety of reasons, consequently, detailed figures frequently do not add to the totals. See Introduction for detailed explanation)

Ind. or product class No.	Industry or product class by percent of specialization	Estab- lish- ments, number	All employees		Production workers			Value added by manufacture	Cost of materials, etc.	Value of shipments
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
2821	CYCLOC (COAL TAR) CRUDES (entire industry).....	43	1,925	8,246	1,488	2,829	5,620	22,179	54,974	77,154
	Establishments with:									
	90% or more specialization.....	28	761	3,286	604	1,080	2,174	9,321	23,029	32,351
2822	INTERMEDIATES AND ORGANIC COLORS (entire industry)....	107	32,748	165,511	22,297	44,142	99,416	362,305	353,296	715,602
	Establishments with:									
	90% or more specialization.....	67	4,911	23,698	3,779	7,582	14,890	48,796	69,304	118,101
	75-89% specialization.....	10	4,349	21,235	3,158	6,416	13,901	40,221	32,594	72,815
	50-74% specialization.....	20	11,622	58,244	7,154	13,953	32,441	143,314	146,462	289,776
	All other <sup>1</sup> .....	10	11,865	62,334	8,205	16,190	38,183	129,973	104,935	234,909
28221	Cyclic (coal tar) intermediates:									
	All establishments specializing in product class.	43	22,441	116,099	14,683	29,014	68,366	271,209	252,242	523,451
	Establishments with:									
	90% or more specialization.....	18	1,009	5,092	715	1,448	3,280	14,463	24,997	39,460
28222	Cyclic (coal tar) dyes:									
	All establishments specializing in product class.	39	7,447	36,279	5,616	11,303	23,342	68,512	66,339	134,851
	Establishments with:									
	90% or more specialization.....	28	2,225	10,440	1,827	3,551	6,855	18,365	24,699	43,064
	75-89% specialization.....	5	1,110	5,381	797	1,718	3,205	9,870	10,202	20,072
28223	Synthetic organic pigments, lakes, and toners:									
	All establishments specializing in product class.	20	2,765	12,704	1,930	3,705	7,469	21,545	33,895	55,441
	Establishments with:									
	90% or more specialization.....	14	588	2,677	430	894	1,553	4,575	7,647	12,222
2823	PLASTICS MATERIALS (entire industry).....	206	41,145	201,487	28,388	57,441	122,188	583,224	648,224	1,231,448
	Establishments with:									
	90% or more specialization.....	153	27,457	136,575	18,972	38,144	82,513	388,709	427,787	816,495
	75-89% specialization.....	20	3,739	17,596	2,661	5,362	11,095	56,510	70,302	126,813
28235	Synthetic resins, except protective coatings:									
	All establishments specializing in product class.	98	24,633	124,531	16,418	33,524	73,994	398,036	436,156	834,192
	Establishments with:									
	90% or more specialization.....	54	6,857	34,150	4,923	10,102	22,361	121,591	119,228	240,819
	75-89% specialization.....	15	7,743	38,745	5,022	10,080	21,954	108,348	117,888	226,236
	50-74% specialization.....	23	6,951	35,921	4,743	9,745	21,768	120,738	139,610	260,349
	Less than 50% specialization.....	6	3,081	15,714	1,729	3,597	7,910	47,358	59,430	106,788
28236	Other plastics and resin materials:									
	All establishments specializing in product class.	73	3,268	16,772	2,186	4,402	9,193	36,552	70,937	107,490
	Establishments with:									
	90% or more specialization.....	51	1,446	7,435	894	1,802	3,587	14,246	33,567	47,813
	75-89% specialization.....	7	221	1,095	149	246	499	2,189	5,129	7,318
2825	RAYON, ACETATE, NONCELLULOSIC, SYNTHETIC FIBERS, AND RELATED PRODUCTS (entire industry):									
28251	Acetate yarn: <sup>2</sup>									
	All establishments specializing in product class.	6	13,958	61,269	10,259	20,029	39,978	142,238	90,107	232,345
28252	Rayon yarn, viscose and cuprammonium process: <sup>3</sup>									
	All establishments specializing in product class.	23	31,031	129,937	24,063	47,328	91,322	258,393	193,664	452,056
28253	Non-cellulosic synthetic fibers except glass: <sup>2</sup>									
	All establishments specializing in product class.	16	16,002	70,073	11,480	22,411	42,721	315,871	238,982	554,854
2829	ORGANIC CHEMICALS, N.E.C. (entire industry).....	275	67,531	364,852	46,428	93,101	227,428	1,171,165	1,027,522	2,198,687
	Establishments with:									
	90% or more specialization.....	173	18,047	96,926	12,583	25,189	61,190	374,886	300,107	674,992
	75-89% specialization.....	35	17,642	94,971	12,094	23,713	59,480	325,677	321,319	646,996
	50-74% specialization.....	51	22,195	121,350	15,436	31,272	76,570	311,623	307,751	619,379
	All other <sup>1</sup> .....	16	9,646	51,604	6,315	12,927	30,187	158,973	98,345	257,319
28292	Miscellaneous cyclic chemicals:									
	All establishments specializing in product class.	18	924	4,186	638	1,299	2,547	14,370	17,026	31,397
	Establishments with:									
	90% or more specialization.....	11	556	2,496	377	815	1,514	9,223	11,952	21,176

See footnotes at end of table.

## MANUFACTURES—INDUSTRY STATISTICS

Table 8.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY INDUSTRY SPECIALIZATION AND PRIMARY PRODUCT CLASS SPECIALIZATION, FOR THE UNITED STATES: 1954—Continued

Ind. or prod- uct class No.	Industry or product class by percent of specialization	Estab- lish- ments, number	All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
2829	ORGANIC CHEMICALS—Continued									
28293	Miscellaneous acyclic chemicals:									
	All establishments specializing in product class.	108	54,937	303,257	37,846	75,643	190,712	1,013,394	835,726	1,849,121
	Establishments with:									
	90% or more specialization.....	53	12,402	69,637	8,749	17,420	45,367	296,675	208,204	504,880
	75-89% specialization.....	17	12,407	67,390	8,388	16,338	41,931	237,368	247,109	484,477
	50-74% specialization.....	23	15,422	85,601	9,976	19,770	49,544	240,230	209,638	449,869
	Less than 50% specialization.....	15	14,705	80,627	10,732	22,114	53,868	239,120	170,774	409,895
28294	Other synthetic organic chemicals:									
	All establishments specializing in product class.	63	7,831	39,815	5,210	10,587	23,431	99,933	126,284	226,218
	Establishments with:									
	90% or more specialization.....	30	796	4,038	557	1,025	2,142	14,688	11,949	26,638
	75-89% specialization.....	10	847	4,631	606	1,255	2,702	6,886	14,842	21,729
	50-74% specialization.....	16	2,162	10,307	1,425	2,970	6,342	29,041	45,193	74,235
	Less than 50% specialization.....	7	4,026	20,839	2,621	5,336	12,244	49,316	54,298	103,615
28296	Other industrial organic chemicals:									
	All establishments specializing in product class.	49	1,239	6,233	768	1,539	2,930	13,999	11,774	25,773
	Establishments with:									
	90% or more specialization.....	34	696	3,328	449	904	1,585	7,412	5,445	12,857
	75-89% specialization.....	6	186	955	115	243	495	2,556	1,675	4,231

<sup>1</sup>This class includes data for establishments with less than 50 percent specialization in the primary products of the industry and establishments engaged exclusively in contract work defined in the industry. Miscellaneous small statistical adjustments are also included.

<sup>2</sup>More than two-thirds of the employment and value of shipments accounted for by establishments whose specialization is less than 90 percent.

<sup>3</sup>Only an insignificant proportion contributed by establishments whose specialization is less than 90 percent.



# Drugs and Medicines

This report shows 1954 Census of Manufactures statistics for establishments classified in each of the following industries:

Code	Title
2831--	Biological Products
2833--	Medicinal Chemicals, including botanicals
2834--	Pharmaceutical Preparations

While there is a relatively large overlap in the shipments of products primary to each of the 4-digit industries in this group, the specialization ratios for the three digit group, Drugs and Medicines collectively is high. In 1954, shipments by plants in this group of industries consisted of 94 percent drugs and medicines, and only 6 percent of other chemical products. These plants also accounted for approximately 94 percent of the drugs and medicines produced in all manufacturing industries.

Although some duplication exists at the 3-digit level where the products of one industry (particularly Industry 2833) represent materials incorporated into the products of another industry, (particularly Industry 2834), this situation does not exist for 4-digit industry and product statistics. Product duplications are minimized by the separate industry classifications provided for plants primarily producing bulk medicines and for those primarily producing drug preparations. For example, plants primarily producing organic and inorganic medicinal chemicals and shipping these products in bulk, are classified in Industry 2833, Medicinal Chemicals; those buying drugs in bulk and compounding them into other pharmaceutical preparations are included in Industry 2834, Pharmaceutical Preparations.

Receipts for merchandising (products bought and resold without further manufacture or processing) valued at \$91 million (see Table 3) are excluded from the \$1,957 million value of shipments for Industry Group 283, Drugs and Medicines. Data relating to these merchandising receipts, arising principally from the resale of goods bought by manufacturers to supplement their line of manufactured drugs and medicines, are also excluded from the cost of materials and value added, but included in other detailed industry statistics, mainly employment and inventory.

The low ratio of production and related workers to total employment indicated for Drugs and Medicines results primarily from the following characteristics of this industry:

(a) Merchandising is an important activity and the employment data include a relatively large number of people engaged in packaging and selling.

(b) Research staffs are generally at the producing plants in Industry 2834, in contrast with the basic organic and inorganic chemical plants where such personnel are at laboratories located at different physical sites.

Data showing the distribution of industry shipments by class of customer appear in Table 9. Total distributed sales, as shown in this table, differ from the value of products shipped as shown in Tables 1, 2, 3, and 5 for three principal reasons:

(1) Receipts for contract work, scrap and refuse, research and development, etc., are included in the value of industry shipments but are excluded from the totals shown in Table 9.

(2) As indicated above, receipts for merchandising are excluded from the value of industry shipments but included in the Table 9 totals.

(3) A number of respondents were unable to analyze their sales by class of customer, and therefore the reported distributed shipments shown in Table 9 as a percentage of total shipments for the industry varies from 92 percent for Industry 2831 to 97 percent for Industry 2834.

## 2831--Biological Products

This industry comprises establishments primarily engaged in the production of viruses, serums, toxins, and analogous products such as allergenic extracts, and normal serums and plasmas for human or veterinary use. Establishments primarily engaged in manufacturing bacteriological media are also included in this industry. Excluded are the activities of the American Red Cross, hospitals and other institutions which are important collectors of blood and producers of blood products. For a detailed list of primary products of this industry, refer to Table 6A, product codes 2831011 to 2831059.

The value of shipments of Industry 2831, Biological Products, in 1954 totaled \$61 million. This included shipments of primary products (biological products) valued at \$52 million, shipments of secondary products valued at \$8 million, and miscellaneous receipts of less than \$1 million.

Industry 2831 shipments of biological products in 1954 represented 86 percent of its total product shipments (primary and secondary). In 1947, this primary product specialization ratio was 87 percent. Secondary products shipped by this industry in 1954 consisted mainly of veterinary drug preparations, \$3 million; and drug preparations for human use, \$3 million.

Industry 2831 shipments of biological products in 1954 represented 65 percent of these products valued at \$80 million shipped by all industries. In 1947, this coverage ratio was 57 percent. The low coverage ratio is due primarily to the production of biological products for human use as secondary products by establishments primarily engaged in manufacturing pharmaceutical preparations and classified in Industry 2834. In 1954, Industry 2834 shipments of biological products were valued at \$27 million, or 33 percent of the shipments by all industries.

The establishments classified in Industry 2831 generally are licensed by the Department of Agriculture and limit their activities to specific types of vaccines and serums utilizing a "batch lot" technique.

2833--Medicinal Chemicals, including Botanicals (Full Standard Industrial Classification Number and Title: 2832, Botanical Products, and 2833, Inorganic and Organic Medicinal Chemicals)

This industry comprises establishments primarily engaged in manufacturing bulk organic and inorganic medicinal chemicals and their derivatives as well as establishments engaged in grading, grinding and milling botanical drugs and herbs. Establishments primarily engaged in manufacturing endocrine products, manufacturing or isolating basic vitamins, isolating active medicinal principles such as alkaloids from botanical drugs and herbs and manufacturing agar-agar (except culture media) are also included in this industry. Establishments primarily engaged in manufacturing reagent and chemically pure grades (other than United States Pharmacopoeia or National Formulary) of inorganic and organic chemicals are classified in Industries 2819, Inorganic Chemicals, Not Elsewhere Classified, and 2829, Organic Chemicals, Not Elsewhere Classified, respectively. For a detailed list of primary products of Industry 2833, refer to Table 6A, product codes 2832011 to 2833298.

The value of shipments of Industry 2833, Medicinal Chemicals, (including botanicals) in 1954 totaled about \$253 million. This included shipments of primary products, (bulk drugs of animal origin, bulk organic and inorganic medicinal chemicals and botanicals) valued at \$168 million, shipments of secondary products valued at \$75 million, and miscellaneous receipts of \$10 million.

Industry 2833 shipments of medicinal chemicals (primary products) in 1954 represented 69 percent of its total product shipments (primary and secondary). In 1947, this primary



product specialization ratio was 73 percent. Secondary products shipped by this industry in 1954 consisted mainly of pharmaceutical preparations for human use, \$21 million; industrial organic chemicals, \$14 million; industrial inorganic chemicals, \$8 million; and cyclic (coal tar) intermediates, \$4 million.

Industry 2833 shipments of medicinal chemicals in 1954 represented 59 percent of these products valued at \$282 million shipped by all industries. In 1947, this coverage ratio was 74 percent. It should be noted that these coverage ratios are based on shipments rather than production. Plants in Industry 2834 and, to some extent Industry 2831, produce medicinal chemicals for incorporation in drug preparations; however, since production data were not compiled, no measure of the captive production is available. Other industries producing medicinal chemicals for sale or interplant transfer in 1954 were mainly Industry 2829, Industrial Organic Chemicals, N.E.C., \$16 million, Industry 2822, Intermediates and Organic Colors, \$30 million and Industry 2834, Pharmaceutical Preparations, \$42 million.

Many medicinal chemicals are produced in batch lots. This characteristic is reflected in the statistics which show that 92 plants, or 80 percent of the total number of establishments, employ fewer than 50 employees. These plants account for 10 percent of the total employment and 8 percent of the value added by manufacture. On the other hand, with the growth of antibiotics and other medicinal chemicals produced by fermentation or otherwise requiring large capital outlays and specialized equipment, continuous process operations have been introduced within the past two decades. Some of the products primary to Industry 2833 are produced by more than one process, such as cortisone which may be produced synthetically by two or more processes or by fermentation. The effect of varying processing techniques on the ratio of cost of materials to net shipments does not have a significant effect on the value added per employee for the larger or smaller plants. The value added per employee for plants employing fewer than 20 employees is approximately \$12,000, or the same as that for plants with 250 or more employees.

The data collected by the United States Tariff Commission and Census Bureau for bulk medicinal organic chemicals complement each other. Those of the Census Bureau represent information for plants classified in manufacturing industries and provide a total value for these chemicals in the form actually shipped; those of the Tariff Commission represent company sales and provide more detailed product information.

The Census Bureau figure of \$152 million is considerably less than the \$426 million reported to the U. S. Tariff Commission for bulk medicinal organic chemicals, primarily for the following reasons:

(1) The Census Bureau total for product line 2833281, Synthetic organic medicinal chemicals in bulk (uncompounded) excludes data for certain uncompounded bulk derivatives, antibiotics and bulk vitamins, which are included in the Tariff Commission figure for medicinal organic chemicals. These items are included in other product categories in this industry by the Census Bureau.

(2) Sales figures reported to the Tariff Commission represent the values of medicinal organic chemicals whether shipped in bulk or packaged, and except for antibiotics, include sales of these products in tablets or ampules when sold in undiluted or uncompounded form. Medicinal organic chemicals sold in dosage form (tablets, ampules, etc.) were reported to the Census Bureau as pharmaceutical preparations.

(3) The distinctions between natural organic medicinal chemicals and synthetic compounds were not uniformly followed in the reports to the two agencies.

(4) Coverage of reporting establishments also contributes to the difference. The Tariff Commission secures product data from laboratories, whereas these establishments are excluded from the Census totals. On the other hand, the Census totals include reports for a few plants which did not report to the Tariff Commission.

(5) The Census Bureau reports require dollar evaluations for interplant transfers even when the products so shipped are entirely consumed by other plants of the same company. Since "company reports" are made to the Tariff Commission, this transfer value is not reported.

#### 2834--Pharmaceutical Preparations

This industry comprises establishments primarily engaged in fabricating drugs and medicines in pharmaceutical preparations such as ampules, tablets, capsules, ointments, solutions, and suspensions, for human and veterinary use, including vitamin preparations and Galenicals such as fluid extracts and tinctures. Products of this industry consist of two important lines: (a) pharmaceutical preparations promoted primarily to the dental, medical, or veterinary professions, and (b) pharmaceutical preparations promoted primarily to the public. Establishments compounding drugs and medicines and selling these "over the counter" are classified in Trade industries and thus are excluded from the Census of Manufactures. For a detailed list of primary products of Industry 2834 refer to Table 6A, product codes 2834111 to 2834689.

The value of shipments of Industry 2834, Pharmaceutical Preparations, in 1954 totaled \$1,643 million. This included shipments of primary products (pharmaceutical preparations for human and veterinary use) valued at \$1,495 million, shipments of secondary products valued at \$144 million, and miscellaneous receipts of \$4 million.

Industry 2834 shipments of pharmaceutical preparations in 1954 represented 91 percent of its total product shipments (primary and secondary), which is the same primary specialization ratio as for 1947. Secondary products shipped by this industry in 1954 consisted mainly of biological products, \$27 million; medicinal drugs and medicines, \$45 million; perfumes, cosmetics and toilet preparations, \$29 million; surgical and medical instruments, \$6 million; and chemical specialties, \$4 million.

Industry 2834 shipments of pharmaceutical preparations in 1954 represented 94 percent of these products valued at \$1,585 million shipped by all industries. In 1947, this coverage ratio was 98 percent. Other industries shipping pharmaceutical preparations were mainly Industry 2833, Inorganic and Organic Medicinal Chemicals, \$27 million, and Industry 2893, Perfumes, Cosmetics, and Toilet Preparations, \$22 million.

The products of this industry are also classified either as ethical or proprietary preparations based largely on the promotional techniques employed by drug firms. While ethical preparations are products primarily advertised or otherwise promoted to or prescribed by the medical profession, some are also available to consumers who are familiar, because of purchase by prescription or otherwise, with the products' name. On the other hand, proprietary preparations are products primarily advertised or otherwise promoted to the general public and may be purchased over-the-counter by anyone.

Although most companies show shipments of products only as ethical or proprietary, a number indicate shipments in both categories. Generally, the "ethical" firms have greater diversification of products and have staffs detailed to sell the product to the physician. The employment figures for Industry 2834 are believed to exclude the sales force engaged in such specialized selling. Since 1947, the sales of ethical products have increased faster and have a larger proportion of the market largely because of the increasing use of such products as antibiotics, antihistamines, sulfonamides, vitamins, and endocrines, some of which are now being produced by continuous process manufacturing methods.

Since specialized equipment or relatively large investments in capital are not prerequisites for many products primary to the industry, the industry is characterized by the presence of a relatively large number of small firms. In 1947, approximately 61 percent of the 1,163 establishments classified in this industry had fewer than 10 employees, and in 1954 the comparable percentage is 62 percent.

Measures of some of the important products which have developed in recent years have been provided in the statistics shown in Table 6A, Value of Products Shipped. Since some of these products are only of recent economic importance, no

comparable 1947 data are available for such products as anti-histamines, dietary depressants (reducing preparations), dietary supplements, hematinics, hormone preparations, and hypnotics and sedatives.

The general statistics (employment, payrolls, value of shipments, cost of materials, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products, and, for that matter, their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (Tables 1-4) with product statistics (Table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in Table 5A which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry made as secondary products by establishments classified in other industries.

## MANUFACTURES--INDUSTRY STATISTICS

Table 1.--GENERAL STATISTICS FOR THE UNITED STATES: 1954 AND EARLIER YEARS

(For explanation of column captions see Introduction)

Industry and census year	Establishments, number	All employees		Production workers		Value added by manufacture <sup>2</sup> (\$1,000)	Cost of materials, etc. <sup>3</sup> (\$1,000)	Value of shipments <sup>4</sup> (\$1,000)
		Number <sup>1</sup>	Payroll (\$1,000)	Number <sup>1</sup>	Wages (\$1,000)			
Biological products (S.I.C. 2831):								
1954.....	93	3,965	15,789	2,864	9,333	36,680	24,292	60,973
1952.....	(NA)	3,101	11,320	2,125	6,953	30,239	19,670	49,909
1951.....	(NA)	3,418	11,250	2,305	7,176	29,975	22,424	52,399
1947.....	84	2,987	8,474	2,189	4,994	19,161	18,576	37,737
1939 <sup>6</sup> .....	80	(NA)	(NA)	2,155	2,085	12,046	7,403	19,449
Medicinal chemicals, including botanicals (S.I.C. 2832-2833):								
1954.....	115	11,541	56,872	7,743	33,345	138,877	113,600	252,478
1953.....	(NA)	16,308	77,391	11,469	49,153	219,444	149,276	368,720
1952.....	(NA)	19,245	86,376	13,150	52,378	212,207	158,974	371,181
1951.....	(NA)	22,549	93,033	15,839	60,053	258,647	201,349	459,996
1947.....	107	13,097	42,220	9,920	29,277	119,525	98,631	218,156
1939 <sup>6</sup> .....	37	(NA)	(NA)	2,420	3,130	15,090	13,594	28,684
Pharmaceutical preparations (S.I.C. 2834):								
1954.....	1,163	76,555	353,769	47,320	173,324	1,161,034	482,136	1,643,140
1953.....	(NA)	73,831	311,120	45,017	154,598	1,051,246	450,602	1,501,851
1952.....	(NA)	74,278	308,993	45,224	148,039	1,030,511	477,593	1,508,104
1951.....	(NA)	67,604	262,496	42,359	132,411	988,284	457,135	1,445,419
1947.....	1,163	65,413	185,497	42,338	98,494	608,625	332,665	941,290
1939 <sup>6</sup> .....	1,000	(NA)	(NA)	19,637	21,152	233,513	104,711	338,224
1937.....	1,034	34,740	50,245	24,795	26,965	250,270	103,584	353,854
1935.....	1,077	32,186	45,331	22,718	22,580	210,566	87,083	297,649
1933.....	1,018	28,058	33,128	20,313	19,412	189,370	74,042	263,412
1931.....	1,220	(NA)	(NA)	21,684	23,906	234,909	87,813	322,722
1929 <sup>8</sup> .....	1,392	35,460	58,727	24,518	27,965	268,444	118,185	386,629

NA Not available.

<sup>1</sup>For the period 1949-1954, figures are based on employment for the payroll periods ended nearest the 15th of March, May, August and November. For 1947, they represent the average of 12 monthly figures. For earlier years, the production worker average was calculated as in 1947, but the figure for all employees represents the sum of the annual average number of production workers and the number of nonproduction workers reported for one payroll period (usually in October).

<sup>2</sup>Value of products less cost of materials, supplies, fuel, electric energy and contract work. See Introduction, "Value Added by Manufacture."

<sup>3</sup>Figures for years prior to 1935 do not include cost of contract work.

<sup>4</sup>For 1929 and 1947-1954, value of shipments; for all other years, value of production. See Introduction, "Value of Shipments."

<sup>5</sup>The figures for 1949-1953 represent estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period. Estimates with a standard error in excess of 15 percent generally have been omitted from this table.

<sup>6</sup>The figures for 1939 are not entirely comparable with those for earlier years. Value added by manufacture for 1939 on a basis comparable with earlier years was \$249.7 million for "Pharmaceutical preparations." No comparable figures are available for "Biological products," and "Medicinal chemicals inc. botanicals" prior to 1939.

<sup>7</sup>The number of establishments primarily engaged in grading, grinding and milling botanical drugs and herbs was so few that the statistics for these establishments were combined with those for the medicinal chemicals industry.

<sup>8</sup>"Pharmaceutical preparations" was formerly included in the discontinued industries, "Druggists preparations," "Patent or proprietary medicines and compounds," and "Drug grinding." Separate figures are not available prior to 1929.



Table 2.—GENERAL STATISTICS BY REGIONS AND STATES: 1954 AND 1947  
(For explanation of column captions see Introduction)

Industry, region, and State <sup>1</sup>	1954										1947		
	Establishments, number		All employees		Production workers			Value added by manufacture	Cost of materials, etc.	Value of shipments	Capital expenditures, new	All employees, number	Value added by manufacture
	Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)		(\$1,000)
Biological products (S.I.C. 2831), total.....	93	43	3,965	15,789	2,864	5,722	9,333	36,680	24,292	60,973	2,510	2,987	19,161
Northeast.....	18	8	803	2,707	628	1,200	1,862	7,275	3,449	10,725	280	732	(D)
New York.....	7	2	78	291	62	122	181	915	240	1,155	(D)	46	(D)
New Jersey.....	6	2	131	470	90	165	252	1,211	981	2,193	60	78	(D)
East North Central.....	20	11	910	3,653	644	1,276	2,204	9,429	4,887	14,316	1,079	651	(D)
Indiana.....	4	3	405	1,623	333	701	1,168	5,015	2,115	7,131	(D)	183	(D)
Illinois.....	8	3	115	392	84	159	257	886	786	1,673	40	119	(D)
West North Central.....	24	15	957	3,609	746	1,537	2,359	9,299	9,556	18,855	578	(D)	(D)
Nebraska.....	6	4	188	735	154	337	507	1,880	2,171	4,051	(D)	200	1,118
Kansas.....	8	4	206	795	139	271	450	1,319	1,833	3,152	(D)	220	(D)
South.....	16	4	246	933	187	358	534	1,951	870	2,821	204	(D)	(D)
West.....	15	5	1,049	4,887	657	1,349	2,373	8,725	5,529	14,254	368	(D)	(D)
California.....	11	3	965	4,501	602	1,237	2,174	8,201	4,913	13,115	347	91	(D)
Medicinal chemicals, inc. botanicals (S.I.C. 2832-2833), total.....	115	40	11,541	56,872	7,743	16,229	33,345	138,877	113,600	252,478	12,948	13,097	119,525
Northeast.....	54	24	7,511	36,635	5,114	10,855	21,639	86,181	81,143	167,324	6,894	(D)	(D)
New York.....	23	6	1,505	8,226	908	1,960	3,832	19,864	9,816	29,680	(D)	2,192	(D)
New Jersey.....	21	13	3,813	17,979	2,569	5,145	10,683	34,233	44,728	78,962	1,897	5,542	(D)
East North Central.....	27	7	568	2,910	413	798	1,657	6,571	5,967	12,538	2,104	(D)	(D)
Indiana.....	4	2	116	575	106	168	426	1,600	797	2,397	(D)	(D)	(D)
Illinois.....	16	4	349	1,799	242	499	998	4,285	4,258	8,544	372	(D)	(D)
West North Central.....	5	2	2,396	12,533	1,378	2,869	6,686	16,068	15,875	31,944	870	(D)	(D)
South and West.....	29	7	1,064	4,792	836	1,705	2,362	30,056	10,613	40,670	3,078	(D)	(D)
California.....	17	3	187	915	125	251	509	2,411	2,992	5,404	479	(D)	(D)
Pharmaceutical preparations (S.I.C. 2834), total.....	1,163	316	76,555	353,769	47,320	95,123	173,324	1,161,004	482,136	1,643,140	40,303	65,413	608,625
Northeast.....	478	146	36,344	163,018	22,411	46,280	83,505	599,359	236,477	835,836	19,787	26,989	267,862
New York.....	239	66	17,926	77,480	12,071	25,249	44,749	307,102	130,924	438,027	7,400	12,918	105,107
New Jersey.....	72	30	9,813	48,027	5,463	11,803	22,920	162,885	51,506	214,392	8,930	7,390	80,810
East North Central.....	245	73	29,255	145,651	17,957	35,469	70,057	419,809	173,336	593,147	17,071	26,788	246,817
Ohio.....	65	17	2,201	9,626	1,028	2,055	3,065	20,256	13,053	33,309	634	2,204	14,412
Indiana.....	34	9	10,118	54,184	6,073	12,566	26,021	143,946	53,214	197,160	6,870	8,811	(D)
Illinois.....	78	27	7,870	35,617	4,469	8,362	15,303	116,480	40,578	157,058	5,415	7,011	66,389
Michigan.....	46	14	8,305	43,072	6,070	11,851	24,721	132,400	64,314	196,719	3,914	8,026	72,244
Wisconsin.....	22	6	760	3,152	315	633	946	6,725	2,174	8,900	235	736	(D)
West North Central.....	109	32	3,925	15,400	2,181	4,327	6,536	52,655	24,717	77,373	983	4,669	42,948
Iowa.....	18	3	584	2,763	265	560	742	6,005	3,680	9,686	(D)	652	3,838
Missouri.....	52	19	2,766	10,501	1,554	3,106	4,892	40,350	17,483	57,834	717	3,266	33,376
Nebraska.....	9	4	259	1,162	140	276	413	3,992	2,026	6,018	(D)	435	3,220
South Atlantic.....	107	23	2,271	9,622	1,498	2,734	3,761	33,666	16,204	49,870	782	(D)	(D)
North Carolina.....	18	3	346	2,002	409	780	1,068	8,281	2,843	11,124	303	592	(D)
East South Central.....	31	9	2,066	8,607	1,480	2,938	4,236	27,884	14,136	42,021	(D)	2,221	(D)
Tennessee.....	16	7	1,592	6,233	901	1,848	2,623	21,295	9,282	30,578	185	2,086	11,473
Mississippi.....	4	2	401	2,162	533	1,008	1,512	6,158	4,507	10,666	289	49	(D)
West South Central.....	55	7	491	1,570	316	507	705	3,925	2,696	6,621	(D)	(D)	(D)
Louisiana.....	16	2	88	263	65	125	144	891	397	1,288	12	59	(D)
Texas.....	33	5	384	1,257	238	357	532	2,876	2,226	5,103	148	232	(D)
West.....	138	26	2,200	9,898	1,474	2,867	4,521	23,702	14,569	38,271	1,039	2,334	15,539
Colorado.....	10	1	56	183	37	71	98	440	289	730	17	32	(D)
Washington.....	6	...	21	65	15	29	34	131	52	183	9	45	(D)
California.....	113	24	2,039	9,334	1,364	2,658	4,217	22,472	13,603	36,075	978	2,228	15,089

Note: Detailed figures may not add to the totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>General statistics for some producing States are not shown separately in the table (see INTRODUCTION "Confidentiality of Data for Individual Companies"). Such States are shown below with the number of establishments in each State for 1954 and, in parentheses, the number of employees or the employment-size range for that State for 1954:

S.I.C. 2831, Biological Products: Northeast—Connecticut, 1 (1-19); Pennsylvania, 4 (500-999); East North Central—Ohio, 3 (20-99); Michigan, 2 (100-249); Wisconsin, 3 (100-249); West North Central—Minnesota, 1 (1-19); Iowa, 4 (250-499); Missouri, 5 (100-249); South—Maryland, 2 (20-99); Virginia, 1 (1-19); Georgia, 2 (1-19); Florida, 2 (20-99); Arkansas, 2 (1-19); Oklahoma, 1 (1-19); Texas, 6 (20-99); West—Colorado, 2 (20-99); Washington, 1 (20-99); Oregon, 1 (1-19).

S.I.C. 2832, Medicinal Chemicals, Inc. Botanicals: Northeast—Massachusetts, 2 (20-99); Connecticut, 3 (1,094); Pennsylvania, 5 (1,010); East North Central—Ohio, 4 (1-19); Michigan, 2 (20-99); Wisconsin, 1 (1-19); West North Central—Minnesota, 2 (1-19); Iowa, 1 (100-249); Missouri, 2 (1,000-2,499); South and West—Delaware, 1 (1-19); Virginia, 3 (500-999); South Carolina, 1 (1-19); Georgia, 1 (20-99); Texas, 2 (20-99); Colorado, 1 (1-19); Washington, 3 (20-99).

S.I.C. 2834, Pharmaceutical Preparations: Northeast—Maine, 1 (1-19); New Hampshire, 2 (20-99); Vermont, 3 (20-99); Massachusetts, 41 (1,000-2,499); Rhode Island, 4 (20-99); Connecticut, 15 (500-999); Pennsylvania, 101 (6,542); West North Central—Minnesota, 23 (100-249); South Dakota, 1 (1-19); Kansas, 6 (20-99); South Atlantic—Delaware, 3 (1-19); Maryland, 23 (500-999); District of Columbia, 4 (20-99); Virginia, 20 (500-999); West Virginia, 6 (100-249); South Carolina, 5 (20-99); Georgia, 15 (100-249); Florida, 13 (20-99); East South Central—Kentucky, 7 (20-99); Alabama, 4 (1-19); West South Central—Arkansas, 3 (1-19); Oklahoma, 3 (1-19); West—Arizona, 1 (1-19); Utah, 1 (1-19); Oregon, 7 (20-99).



## MANUFACTURES--INDUSTRY STATISTICS

Table 3.—DETAILED STATISTICS FOR THE UNITED STATES: 1954

(For explanation of line captions see Introduction)

Item	Biological products (S.I.C. 2831)		Medicinal chemicals, including botanicals (S.I.C. 2833)		Pharma- ceutical preparations (S.I.C. 2834) all estab- lishments
	All estab- lishments	Establish- ments with 90% or more primary prod- uct special- ization	All estab- lishments	Establish- ments with 90% or more primary prod- uct special- ization	
Primary product specialization ratio <sup>1</sup> .....	86	xxx	69	xxx	91
Coverage ratio <sup>2</sup> .....	65	xxx	59	xxx	94
Number of establishments, total.....	93	77	115	81	1,163
With 1-19 employees.....	50	43	75	63	847
With 20-99 employees.....	35	29	24	14	204
With 100 employees and over.....	8	5	16	4	112
All employees:					
Number (average for year).....	3,965	2,486	11,541	2,169	76,555
Payroll.....\$1,000..	15,789	9,665	56,872	9,788	353,769
Production workers:					
Number (average for year).....	2,864	1,823	7,743	1,517	47,320
Man-hours.....1,000..	5,722	3,648	16,229	3,120	95,123
Wages.....\$1,000..	9,333	5,984	33,345	5,562	173,324
Value added by manufacture.....	36,680	22,835	138,877	27,175	1,161,004
Cost of materials, etc.....do..	24,292	15,341	113,600	22,741	482,136
Value of shipments.....do..	60,973	38,226	252,478	50,323	1,643,140
Value added by resales.....do..	1,296	1,054	4,008	428	22,402
Cost of products bought and resold.....do..	4,286	3,421	24,527	1,260	34,948
Sales of products bought and resold.....do..	5,582	4,475	28,535	1,688	57,350
Total inventories, beginning of year.....do..	15,456	9,914	64,157	13,149	315,252
Total inventories, end of year.....do..	17,255	10,721	65,823	10,918	11,617
Capital expenditures, new.....do..	2,510	1,938	12,948	5,698	40,303
Number of employees for selected months:					
March.....	3,858	2,387	11,371	2,128	77,492
May.....	3,961	2,476	11,411	2,096	75,576
August.....	4,013	2,524	11,698	2,273	76,147
November.....	4,031	2,558	11,685	2,180	77,005
Cost of materials, fuel, electricity and contract work, total.....\$1,000..	24,292	15,341	113,600	22,741	482,136
Materials, parts, containers, and supplies consumed.....do..	23,555	14,859	107,217	21,727	458,998
Fuels consumed, total.....do..	309	156	2,662	283	5,164
Bituminous coal and anthracite:					
Quantity.....1,000 short tons..	9	(NA)	198	(NA)	184
Value.....\$1,000..	82	(NA)	1,262	(NA)	1,384
Coke:					
Quantity.....1,000 short tons..	( <sup>3</sup> )	(NA)	( <sup>3</sup> )	(NA)	...
Value.....\$1,000..	1	(NA)	4	(NA)	...
Fuel oil:					
Quantity.....1,000 barrels..	20	(NA)	481	(NA)	1,041
Value.....\$1,000..	76	(NA)	1,132	(NA)	2,782
Gas:					
Quantity.....million cubic feet..	320	(NA)	305	(NA)	1,935
Value.....\$1,000..	112	(NA)	129	(NA)	684
Other fuels:					
Value.....do..	38	(NA)	135	(NA)	314
Electric energy:					
Purchased:					
Quantity.....million kwh..	22	15	269	58	601
Cost.....\$1,000..	324	223	2,671	728	6,970
Generated.....million kwh..	...	...	85	...	18
Cost of contract work.....\$1,000..	113	103	1,050	3	11,004
Manufacturers' inventories:					
Beginning of year, total.....do..	15,456	9,914	64,157	13,149	315,252
Finished products.....do..	6,693	4,752	22,675	3,251	115,136
Work-in-process.....do..	4,274	2,026	21,730	4,139	81,775
Materials, supplies, fuel, etc.....do..	4,489	3,136	19,752	5,759	118,341
End of year, total.....do..	17,255	10,721	65,823	10,918	311,617
Finished products.....do..	6,464	4,356	22,048	2,552	115,083
Work-in-process.....do..	5,911	2,655	22,769	3,729	80,668
Materials, supplies, fuel, etc.....do..	4,880	3,710	21,006	4,637	115,866
Expenditures for plant and equipment, total.....do..	2,522	1,949	13,353	5,996	41,055
Capital expenditures, new.....do..	2,510	1,938	12,948	5,698	40,303
New structures and additions to plant.....do..	1,259	1,083	3,000	1,776	14,564
New machinery and equipment.....do..	1,251	855	9,948	3,922	25,739
Expenditures for used plant and equipment.....do..	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	752
Horsepower rating of power equipment at end of 1954:					
Horsepower of prime movers and electric motors driven by purchased energy, total.....1,000 hp..	9	7	96	35	208
Engines, etc. driving electric generators.....do..	( <sup>5</sup> )	( <sup>5</sup> )	18	3	11
Engines, etc. not driving electric generators.....do..	( <sup>5</sup> )	...	4	3	13
Electric motors driven by purchased energy.....do..	9	7	74	29	184
Electric motors driven by energy generated at the establishment.....do..	...	...	( <sup>5</sup> )	...	3

Note: Detailed figures may not add to the totals because of independent rounding.

NA Not available. xxx Not applicable. <sup>1</sup>The specialization ratio compares the given industry's shipments of its primary products to its total shipments of all products. (The primary products are listed in Tables 5B and 6A; the first 4-digits of the product code represent the industry code to which the product is primary.) Columns containing totals for establishments with 90% or more primary product specialization are shown only for those industries having a primary product specialization of less than 90%. <sup>2</sup>The coverage ratio measures the extent to which the total shipments of products primary to the given industry are shipped by establishments classified in that industry. <sup>3</sup>Less than 500 tons. <sup>4</sup>Less than \$500 thousand. <sup>5</sup>Less than 500 hp.

DRUGS AND MEDICINES

28C-7

Table 4.--SELECTED STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR THE UNITED STATES: 1954

(Value figures in thousands of dollars. For explanation of line captions see Introduction. Data which cannot be shown without disclosing information for individual companies have been combined with figures for other size classes. A (D) appears in the column where the figure has been omitted and the combined figure is underlined and shown in the size-class to the left)

Ind. code	Industry and item	Total, all establishments	Establishments with an average of--									
			1-4 em- ployees	5-9 em- ployees	10-19 em- ployees	20-49 em- ployees	50-99 em- ployees	100-249 employees	250-499 employees	500-999 employees	1,000-2,499 employees	2,500 employees and over
2831	Biological products:											
	Number of establishments...	93	27	12	11	20	15	5	2	1	...	...
	Number of employees.....	3,965	73	83	144	593	969	857	<u>1,243</u>	(D)	...	...
	Value added by manufacture.	36,680	601	869	1,205	4,653	7,725	9,528	<u>12,098</u>	(D)	...	...
2832	Medicinal chem.inc.botanicals:											
2833	Number of establishments...	115	36	23	16	17	7	7	3	3	3	...
	Number of employees.....	11,541	91	170	219	519	516	982	<u>3,474</u>	(D)	5,565	...
	Value added by manufacture.	138,877	1,323	1,892	2,380	5,024	6,743	13,192	<u>57,338</u>	(D)	50,982	...
2834	Pharmaceutical preparations:											
	Number of establishments...	1,163	550	174	123	144	60	62	22	15	7	6
	Number of employees.....	76,555	1,349	1,233	1,753	4,466	4,089	9,352	8,291	10,937	10,934	24,147
	Value added by manufacture.	1,161,004	9,531	11,388	15,305	45,625	46,852	155,207	137,574	169,060	189,848	380,610

Note: Detailed figures may not add to the totals because of independent rounding.

Table 5A.--INDUSTRY-PRODUCT ANALYSIS--SUMMARY OF INDUSTRY AND PRIMARY PRODUCT SHIPMENTS, SPECIALIZATION RATIOS AND COVERAGE RATIOS FOR THE UNITED STATES: 1954 AND 1947

Industry code	Industry and census year	Value of shipments					Value of primary products shipped			
		Total	Primary products	Secondary products	Miscel- laneous receipts	Primary product speciali- zation ratio <sup>1</sup>	Total (made in all industries)	Made in this industry	Made in other industries	Coverage ratio <sup>2</sup>
						Col. B Col. B+C (Percent)				Col. G Col. F (Percent)
		(\$1,000) (A)	(\$1,000) (B)	(\$1,000) (C)	(\$1,000) (D)	(E)	(\$1,000) (F)	(\$1,000) (G)	(\$1,000) (H)	(I)
2831	Biological products.....1954.. 1947..	60,973 37,737	52,261 32,029	8,215 4,850	497 858	86 87	79,909 56,397	52,261 32,029	27,648 24,368	65 57
2833	Medicinal chemicals, including botanicals.....1954.. 1947..	252,478 218,156	167,687 156,393	75,038 59,009	9,753 2,754	69 73	282,071 210,184	167,687 156,393	114,384 53,791	59 74
2834	Pharmaceutical preparations..1954.. 1947..	1,643,140 941,290	1,494,873 846,430	144,380 86,040	3,887 8,820	91 91	1,584,692 867,106	1,494,873 846,430	89,819 20,676	94 98

<sup>1</sup>The specialization ratio compares the given industry's shipments of its primary products to its total shipments of all products. (The primary products are listed in Tables 5B and 6A; the first 4-digits of the product code represent the industry code to which the product is primary.)

<sup>2</sup>The coverage ratio measures the extent to which the total shipments of products primary to the given industry are shipped by establishments classified in that industry.

## MANUFACTURES--INDUSTRY STATISTICS

Table 5B.--INDUSTRY-PRODUCT ANALYSIS--SHIPMENTS BY PRODUCT CLASS AND INDUSTRY, FOR THE UNITED STATES: 1954

(In thousands of dollars. Each column shows for the industry listed in the column heading, the value of shipments divided between drugs and medicines, other products, and miscellaneous receipts. Each figure represents the amount of the product class shown at the left shipped by the industry listed at the top of the column. The first four digits of the product class codes at the left represent the codes of the industries to which they are primary. All other product classes in a column represent products secondary to the specified industry)

Prod. class code	Class of products and miscellaneous receipts	Biological products (S.I.C. 2831)	Medicinal chemicals, including botanicals (S.I.C. 2833)	Pharmaceutical preparations (S.I.C. 2834)	Toilet preparations (S.I.C. 2893)	Other industries	All industries
	Total shipments and receipts of the industry.....	60,973	252,478	1,643,140	xxx	xxx	xxx
283	Drugs and medicines.....	58,698	201,659	1,567,036	21,767	97,512	1,946,672
28310	Biological products.....	52,261	...	26,711	...	937	79,909
28320	Botanical products.....	...	(D)	118	...	(D)	8,610
28331	Drugs of animal origin, uncompounded-bulk.....	197	3,208	2,791	...	636	6,832
28332	Inorganic and organic medicinals, uncompounded-bulk...	...	156,468	42,310	...	167,257	266,035
28330	Medicinal chemicals, not specified by kind.....	...	(D)	233	...	(D)	594
28341	Pharmaceutical preparations for veterinary use.....	2,959	6,105	72,831	...	3,879	85,774
28342	Antibiotic preparations for human use.....	...	(D)	245,052	...	(D)	252,892
28343	Cough and cold products for human use.....	...	...	60,660	660	3,236	64,556
28344	Laxatives, stomach, and ulcer products for human use..	...	...	104,693	10,587	8,088	123,368
28345	Vitamins for human use.....	...	1,595	211,519	639	756	214,509
28346	Other pharmaceutical preparations for human use.....	3,281	19,366	787,677	9,881	10,537	830,742
28340	Pharmaceutical preparations, not specified by kind....	...	...	12,441	...	410	12,851
	Other products.....	1,778	41,066	72,217	xxx	xxx	xxx
28197	Other inorganic chemicals.....	...	8,145	(2)	xxx	xxx	xxx
28221	Cyclic (coal tar) intermediates.....	...	3,981	...	xxx	xxx	xxx
2829-	Organic chemicals, n.e.c.....	...	13,647	(2)	xxx	xxx	xxx
2893-	Toilet preparations.....	...	...	29,203	xxx	xxx	xxx
28993	Chemical specialties.....	(3)	(2)	3,562	xxx	xxx	xxx
38410	Surgical and medical instruments.....	(2)	(2)	6,343	xxx	xxx	xxx
	Other secondary products.....	1,766	415,293	533,109	xxx	xxx	xxx
	Miscellaneous receipts.....	497	9,753	3,887	xxx	xxx	xxx

xxx Not applicable.

D Withheld to avoid disclosure of figures for individual companies.

<sup>1</sup>Includes \$30,441,000 shipped by establishments classified in Industry 2822, Intermediates and Organic colors; and \$15,908,000 by establishments classified in Industry 2829, Organic Chemicals, N.E.C.

<sup>2</sup>Included in other secondary products to avoid disclosure of figures for individual companies.

<sup>3</sup>Less than \$100 thousand.

<sup>4</sup>Of this figure, 65 percent consists of the following product classes: 20424, Other prepared animal feeds; 20942, Other starch, including reprocessed; and 28195, Other potassium and sodium compounds.

<sup>5</sup>Of this figure, 85 percent consists of the following product classes: 20716, Other candy and confectionery; 20951, Flavoring extracts, emulsions and other flavors; 28293, Miscellaneous acrylic chemicals; 28931, Perfumes, toilet waters and colognes; and 28942, Gelatin, except ready-to-mix desserts.

Table 6A.--QUANTITY AND VALUE OF PRODUCTS SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, FOR THE UNITED STATES: 1954 AND 1947

Product code	Product	Value of shipments including interplant transfers (\$1,000)					
		1954			1947		
		Total	For veter-inary use	For human use	Total	For veter-inary use	For human use
2831---	Biological products, total.....	179,909	xxx	xxx	56,397	xxx	xxx
	Biological products:						
2831011	Antibacterial serums and antisera.....	11,503	11,290	213	12,698	12,352	346
2831012	Antitoxins and antitoxic serums.....	3,043	230	2,813	2,544	441	2,103
2831013	Allergenic extracts.....	1,755	xxx	1,755	2,038	19	2,019
2831014	Bacterial toxins, modified toxins, and venoms.....	2,580	594	1,986	1,751	382	1,369
2831015	Bacterial vaccines, antigens, and mixed vaccines.....	8,646	5,204	3,442	10,173	3,428	6,745
2831016	Diagnostic agents, biological.....	2,263	90	2,173	1,690	457	1,233
2831017	Normal serums, normal blood derivatives, whole blood, and naturally produced antibodies.....	18,681	1,559	17,122	7,093	1,949	5,144
2831018	Viruses, vaccines, and tissue product derivatives, except endocrine and multiglandular.....	20,585	15,535	5,050	9,596	5,284	4,312
2831019	Miscellaneous biological products.....	5,352	1,519	3,833	5,837	xxx	xxx
	Bacteriological materials						
2831051	Culture media (including agar-agar).....	2,166	xxx	xxx	654	xxx	xxx
2831059	Other bacteriological materials.....	1,619	xxx	xxx	1,306	xxx	xxx
2831000	Biological products, not specified by kind.....	1,716	xxx	xxx	1,017	xxx	xxx
		Total value of shipments including interplant transfers (\$1,000)					
		1954			1947		
2832---	Medicinal chemicals, including botanicals, total.....			282,071			210,184
2833---							
2832011	Botanical drugs, in bulk (uncompounded).....			8,610			12,378
28331	Drugs of animal origin in bulk (uncompounded).....			6,832			18,917
	Dried glands and other animal organs and tissue and extractions thereof:						
	Endocrine glands and tissue, and extractions:						
2833111	Adrenal.....						(2)
2833112	Ovaries.....						281
2833113	Thyroid.....						1,430
2833114	Pituitary.....			1,143			252
2833119	Miscellaneous endocrine glands and tissue, and extractions thereof.....						23,374
2833121	Liver and stomach.....			1,268			3,755
2833131	Other dried glands, animal organs and tissues, and extractions thereof.....			1,057			609
	Sex hormones:						
2833151	Estrogen.....			154			5,505
2833155	Other sex hormones, natural and synthetic.....			638			
2833161	Bile and derivatives.....			1,401			1,070
2833198	Other drugs of animal origin, uncompounded.....			3,673			2,641
2833100	Drugs of animal origin in bulk (uncompounded), not specified by kind.....			498			xxx
28332	Inorganic and organic medicinals (bulk type).....			266,035			178,485
	Botanical derivatives, in bulk (uncompounded):						
	Alkaloids and salts:						
2833211	Quinine and salts.....			1,292			
2833213	Strychnine and salts.....			(4)			
2833214	Codeine and salts.....			5,034			13,090
2833215	Morphine and salts.....			503			
2833219	Other alkaloids and salts (including mixtures).....			47,237			
2833221	Neutral principles, M.G. (including mixtures).....			(5)			291
	Antibiotics, in bulk						
2833231	For animal feeds.....			8,025			
	Except for animal feeds:						
2833233	Dihydrostreptomycin.....			7,375			
2833235	Penicillin and salts.....			13,895			13,490
2833237	Streptomycin.....			2,634			
2833239	Other antibiotics.....			21,180			
2833241	Botanical derivatives, uncompounded, n.e.c.....			5,648			
	Other medicinal chemicals, in bulk (uncompounded):						
	Naturally occurring vitamins, in bulk:						
2833251	Derived from yeast.....			398			
2833253	Derived from plants (carotene, etc.).....			1,524			
	Derived from fish liver and oil concentrates:						
2833255	Vitamin A.....			1,850			5,118
2833257	Vitamin D.....			816			
2833261	Inorganic medicinal chemical in bulk (uncompounded) <sup>6</sup> .....			3,994			1,694
2833271	Natural organic medicinal chemicals, in bulk (uncompounded) not included above.....			9,779			
2833281	Synthetic organic medicinal chemicals in bulk (uncompounded).....			152,061			144,802
2833298	Other inorganic and organic medicinals (bulk type).....			26,542			
2833200	Inorganic and organic medicinals (bulk type), not specified by kind.....			1,248			xxx
2833000	Medicinal chemicals, not specified by kind.....			594			404

See footnotes at end of table.



Table 6A.--QUANTITY AND VALUE OF PRODUCTS SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, FOR THE UNITED STATES: 1954 AND 1947--Continued

Product code	Product	Value of shipments including interplant transfers (\$1,000)					
		1954			1947		
		Total <sup>7</sup>	Ethical preparations <sup>8</sup>	Proprietary preparations <sup>9</sup>	Total <sup>7</sup>	Ethical preparations <sup>8</sup>	Proprietary preparations <sup>9</sup>
2834----	Pharmaceutical preparations, total.....	1,584,692	1,138,245	401,892	867,106	<sup>10</sup> 526,430	328,619
28341	Pharmaceutical preparations for veterinary use.....	85,774	49,333	33,626	30,369	5,690	24,679
2834111	For poultry.....	27,444	5,877	21,567	13,188	534	12,654
2834121	For livestock, excluding poultry.....	45,384	36,880	8,504	13,269	4,405	8,864
2834131	For pets and small animals.....	10,131	6,576	3,555	3,171	751	2,420
2834100	Pharmaceutical preparations for veterinary, not specified by kind.....	2,815	(NA)	(NA)	741	...	741
28342	Antibiotic preparations for human use.....	252,892	251,951	448	81,830	81,830	...
	Penicillin in preparation:						
	Without other active agents:						
2834211	Parenteral.....	27,188	27,188	...	44,154	<sup>11</sup> 44,154	...
2834213	Solid oral forms <sup>12</sup> .....	16,083	16,083	...	24,047	<sup>11</sup> 24,047	...
2834215	Liquid oral forms.....	7,958	7,958	...	4,877	<sup>11</sup> 4,877	...
2834217	Other forms.....	1,084	1,084	...	3,434	<sup>11</sup> 3,434	...
	With other active agents:						
2834221	Parenteral.....	15,539	15,539	...			
2834223	Solid oral forms <sup>12</sup> .....	4,840	4,840	...	( <sup>11</sup> )	( <sup>11</sup> )	...
2834225	Liquid oral forms.....	3,756	3,756	...			
2834227	Other forms.....	258	258	...			
	Streptomycin in preparation:						
	Without other active agents:						
2834231	Parenteral.....						
2834233	Other forms.....	6,143	6,143	...	( <sup>13</sup> )	( <sup>13</sup> )	...
	Other active agents:						
2834235	Parenteral.....						
2834237	Other forms.....						
	Dihydrostreptomycin in preparation:						
	Without other active agents:						
2834241	Parenteral.....	4,769	4,769	...			
2834243	Other forms.....						
	With other active agents:				(NA)	(NA)	...
2834245	Parenteral.....	1,855	1,855	...			
2834247	Other forms.....						
	Other antibiotic preparations:						
	Without active agents:						
2834251	Parenteral.....	7,440	7,440	...			
2834253	Solid oral forms <sup>12</sup> .....	102,581	102,581	...			
2834255	Liquid oral forms.....	21,517	21,517	...			
2834257	Other forms.....	11,224	11,224	...			
	With other active agents:				<sup>13</sup> 5,318	<sup>13</sup> 5,318	...
2834261	Parenteral.....	3,505	3,505	...			
2834263	Solid oral forms.....	6,258	5,810	448			
2834265	Liquid oral forms.....	4,991	4,991	...			
2834267	Other forms.....	5,410	5,410	...			
2834200	Antibiotic preparations for human use, not specified by kind..	493	(NA)	(NA)	( <sup>14</sup> )	( <sup>14</sup> )	...
28343	Cough and cold products (excluding analgesics and antihistamines) for human use.....	64,556	24,448	38,771	(NA)	( <sup>10</sup> )	41,842
2834311	Cough drops, lozenges, gums, and pastilles to retail at over 10¢ per package <sup>15</sup> .....	4,752	2,032	2,720			5,480
2834321	Cough syrups, elixirs, and expectorants.....	22,226	11,255	10,971			8,724
2834331	Salves and ointments.....	12,743	360	12,383	(NA)	( <sup>10</sup> )	9,830
2834341	Cold tablets.....	7,143	1,126	6,017			4,797
2834351	Nose drops and inhalants <sup>16</sup> .....	12,632	7,499	5,133			4,340
2834361	All other cough and cold products.....	3,723	2,176	1,547			8,671
2834300	Cough and cold products, not specified by kind.....	1,337	(NA)	(NA)	( <sup>14</sup> )	( <sup>14</sup> )	( <sup>14</sup> )
28344	Laxatives, cathartics, antacids, stomach and ulcer products for human use.....	123,368	39,900	81,643			59,778
	Antacids, stomach and ulcer remedies (excluding analgesics, laxatives, and milk of magnesia):						
	Antacids:						
2834411	Solid oral forms <sup>12</sup> .....	27,076	8,503	18,573			5,196
2834413	Powders.....	1,662	367	1,295			2,045
2834415	Liquids.....	10,869	8,308	2,561			654
2834421	Other stomach and ulcer remedies.....	13,733	5,995	7,738	(NA)	( <sup>10</sup> )	( <sup>16</sup> )
	Laxatives:						
	Milk of magnesia:						
2834431	Liquid.....						8,830
2834435	Tablets.....	11,892	639	11,253			2,544
2834441	Mineral oils and emulsions.....	11,166	6,340	4,826			6,512
2834451	Saline preparations.....	8,426	1,147	7,279			7,171

See footnotes at end of table.

Table 6A.--QUANTITY AND VALUE OF PRODUCTS SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, FOR THE UNITED STATES: 1954 AND 1947--Continued

Product code	Product	Value of shipments including interplant transfers (\$1,000)					
		1954			1947		
		Total <sup>7</sup>	Ethical preparations <sup>8</sup>	Proprietary preparations <sup>9</sup>	Total <sup>7</sup>	Ethical preparations <sup>8</sup>	Proprietary preparations <sup>9</sup>
2834---	Pharmaceutical preparations--Continued						
28344	Laxatives, cathartics, antacids, stomach and ulcer products for human use--Continued						
	Laxatives--Continued						
	Bulk type laxatives:						
2834461	Without other active agents.....	6,278	2,891	3,387	(NA)	(10)	2,990
2834465	With other active agents.....						
	All other laxatives, cathartics, and purgatives:						
2834471	Solid oral forms <sup>12</sup> .....	20,221	3,992	16,229	(NA)	(10)	14,557
2834475	Liquid oral forms.....	7,266	677	6,589			5,592
2834479	Other.....	2,954	1,041	1,913			3,687
2834400	Laxatives, cathartics, antacids, stomach and ulcer products for human use, not specified by kind.....	1,825	(NA)	(NA)	(14)	(14)	(14)
28345	Vitamins for human use.....	214,509	172,185	38,789	186,963	133,119	53,844
2834511	Parenteral preparations.....	12,543	12,543	...	14,241	14,241	...
2834521	Solid oral forms <sup>12</sup> .....	144,076	109,559	34,517	108,079	83,024	25,055
2834531	Liquid oral forms.....	48,181	46,023	2,158	57,744	32,693	25,051
2834541	Other forms.....	6,174	4,060	2,114	6,899	3,161	3,738
2834500	Not specified by kind.....	3,535	(NA)	(NA)	(13)	(13)	(13)
28346	All other pharmaceutical preparations for human use.....	830,742	600,428	208,615			141,444
2834611	Anaesthetics (excluding topical preparation and gases).....	15,111	15,111	...			(NA)
	Analgesics:						
	External analgesics and counter-irritants:						
	Ointments, jellies, pastes, creams, cerates, and salves.....	21,237	9,760	11,477	(NA)	(10)	10,603
2834613	Liquids (excluding rubbing alcohol, but including liniments).....	10,696	2,141	8,555			9,345
	Rubbing alcohol:						
2834614	Ethyl.....	8,004	(NA)	(NA)			4,640
2834615	Other.....	1,988	474	1,514			
2834616	Other external analgesics including irritant and counter-irritant plasters.....	1,624	486	1,138			3,323
	Internal analgesics, excluding narcotics and hypnotics:						
2834617	Aspirin (acetylsalicylic acid).....	49,426	8,655	40,771	30,542	11,539	19,003
2834618	Aspirin compounds, non-effervescent.....	31,538	3,267	28,271	29,206	233	28,973
2834619	Other internal analgesics including effervescent type	39,041	3,722	35,319			
	Antihistamines:						
2834621	Solid oral forms <sup>12</sup> .....	23,386	20,225	3,161	(NA)	(10)	(17)
2834622	Liquid oral forms.....	4,869	4,771	98			
2834623	Other forms.....	4,214	3,941	273			
	Antiseptics, fungicides, germicides, external (including feminine hygiene products):						
2834625	Ointments, jellies, pastes, cream, cerates, and salves..	19,102	12,053	7,049			11,550
2834627	Powders.....	5,896	2,537	3,359			3,126
2834629	Liquids (including tincture of iodine).....	23,534	4,778	18,756			6,058
2834631	Dietary depressants (reducing preparations).....	16,054	15,609	445			
2834633	Dietary supplements (other than vitamins), products containing less than 50 percent milk base by weight.....	2,200	2,048	152			
	Hematinics (excluding vitamin B12):						
2834635	Parenteral.....	4,079	4,079	...			
2834637	Solid oral forms <sup>12</sup> .....	22,988	22,557	431			
2834639	Liquid oral forms.....	5,481	5,245	236		(10)	
	Hormone preparations, natural and synthetic:						
	Sex hormone:						
2834641	Androgenic.....	4,130	4,130	...			
2834642	Estrogenic.....	12,405	12,405	...			
2834643	Mixed androgens and estrogens.....	5,241	5,241	...			
2834644	Thyroid.....	3,413	3,413	...	(NA)		
2834645	Insulin.....	20,925	20,925	...			(17)
2834646	ACTH (adrenocorticotrophic hormone).....	6,994	6,994	...			
2834647	Cortical hormones.....	47,123	47,123	...			
2834649	Other hormonal products.....	3,301	3,301	...			
	Hypnotics and sedatives (excluding narcotics):						
	Barbituates in preparation without other active agents:						
2834650	Parenteral.....	2,343	2,343	...		1,971	
2834651	Solid oral forms <sup>12</sup> .....	17,333	17,197	136		7,528	
2834652	Liquid oral forms.....	4,009	4,009	...		2,509	
2834653	Other.....						
	Barbituates in preparation containing other active agents:						
2834654	Parenteral.....	84	84	...		10,074	
2834655	Solid oral forms <sup>12</sup> .....	21,707	19,145	2,562			
2834656	Liquid oral forms.....	7,585	5,939	1,646		4,326	
2834657	Other.....						
2834658	All other hypnotics (except barbituates and narcotics).....	603	603	...		(10)	
2834659	All other sedatives.....	4,167	2,114	2,053			

See footnotes at end of table.

## MANUFACTURES--INDUSTRY STATISTICS

Table 6A.--QUANTITY AND VALUE OF PRODUCTS SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, FOR THE UNITED STATES: 1954 AND 1947--Continued

		Value of shipments including interplant transfers (\$1,000)					
Product code	Product	1954			1947		
		Total <sup>7</sup>	Ethical prepara- tions <sup>8</sup>	Proprie- tary prepara- tions <sup>9</sup>	Total <sup>7</sup>	Ethical prepara- tions <sup>8</sup>	Proprie- tary prepara- tions <sup>9</sup>
2834---	Pharmaceutical preparations--Continued						
28346	All other pharmaceutical preparations for human use--Continued						
	Narcotics:						
	Narcotics in preparations without other active agents:						
2834661	Parenterals.....	1,175	1,175	...	}	(10)	}
2834662	Solid oral forms <sup>12</sup> .....	9,145	9,145	...			
2834663	Liquid oral forms.....	896	896	...			
2834664	Other.....			...			
	Narcotics in preparations containing other active agents:						
2834665	Parenterals.....	92	92	...	}	(10)	}
2834666	Solid oral forms <sup>12</sup> .....	3,295	2,464	831			
2834667	Liquid oral forms.....	3,431	2,149	1,282			
2834669	Other.....	57	57	...			
	Sulfonamides:						
	Sulfonamides in preparation without other active agents:						
2834671	Parenteral.....	120	120	...	}	(NA)	}
2834672	Solid oral forms <sup>12</sup> .....	13,479	13,246	233			
2834673	Liquid oral forms.....	6,534	6,534	...			
2834674	Other forms.....	1,551	1,551	...			
	Sulfonamides in preparations containing other active agents:						
2834675	Parenteral.....	(18)	(18)	...	}	(NA)	}
2834676	Solid oral forms <sup>12</sup> .....	842	842	...			
2834677	Liquid oral forms.....	804	804	...			
2834679	Other forms.....	18361	18361	...			
	Tonics and alternatives:						
2834681	Tablets, pills, lozenges (including yeast tablets).....	9,017	2,268	6,749	}	(14)	}
2834683	Liquids.....	15,407	4,980	10,427			
	Other pharmaceutical preparations for human use:						
2834685	Parenteral.....	61,076	59,693	1,383	}	(10)	}
2834686	Solid oral forms <sup>12</sup> .....	146,797	135,398	11,399			
2834687	Liquid oral forms.....	26,064	22,722	3,342	}	(14)	}
2834689	Other forms.....	45,073	39,506	5,567			
2834600	All other pharmaceutical preparations for human use, not specified by kind.....	13,695	(NA)	(NA)	(14)	(14)	(14)
2834000	Pharmaceutical preparations, not specified by kind.....	12,851	(NA)	(NA)	23,152	4,063	7,032

xxx Not applicable.

NA Not available.

<sup>1</sup>Includes interplant transfers which amount to less than 5 percent of total shipments and less than 10 percent for any one product and excludes biologicals manufactured by State Health Agencies.<sup>2</sup>Codes 2833111 combined with code 2833119, "Miscellaneous endocrine glands," in 1947.<sup>3</sup>Excludes data for enzymes, classified as primary to Industry 2829, Industrial Organic Chemicals.<sup>4</sup>Code 2833213 combined with code 2833219, "Other alkaloids and salts."<sup>5</sup>Code 2833221 combined with code 2833241, "Botanical derivatives, uncombined, n.e.c."<sup>6</sup>For additional data, see product code 2819611, "Reagent and high purity grades of inorganic chemicals refined from purchased technical grades."<sup>7</sup>The total includes \$44,555 thousand in 1954 and \$12,057 thousand in 1947 which was unspecified by kind, therefore, not included in the totals for ethical and proprietary preparations for the 4- and 5-digit product codes.<sup>8</sup>"Ethical preparations" are defined as products primarily advertised or otherwise promoted to or prescribed by the medical profession.<sup>9</sup>"Proprietary preparations" are defined as products primarily advertised or otherwise promoted to the general public.<sup>10</sup>The detailed 1947 data for ethical preparations for the 5-digit product codes are not directly comparable in some instances with the 1954 product classifications. Of the \$526,430 thousand reported in 1947 for ethical preparations, \$239,411 thousand can not be distributed according to the 1954 detailed product classifications.<sup>11</sup>Data for "Penicillin in preparation with other active agents" included in figures for "Penicillin in preparation without other active agents," by respective forms.<sup>12</sup>Includes data for tablets, pills, capsules, lozenges, and other solid forms.<sup>13</sup>Data for streptomycin preparations included in figures for "Other antibiotic preparations."<sup>14</sup>Included in total for "Pharmaceutical preparations, not specified by kind."<sup>15</sup>Cough drops selling at retail for 10% or less per package are coded as primary to Industry 2071, "Confectionary products." The 1954 total for this product is \$29,874 thousand compared with the 1947 figure of \$8,528 thousand.<sup>16</sup>Inhaler tubes are included with "All other cough and cold products."<sup>17</sup>Included in total for "Other pharmaceutical preparations for human use."<sup>18</sup>Data for parenteral preparations included in total for "Sulfonamides, other forms."<sup>19</sup>Because some respondents reported these products as mouthwashes (product code 2893398) in 1947, comparable data may be obtained by adding \$6,177 for mouthwashes to the 1954 and \$13,657 thousand to the 1947 figure for proprietary liquid antiseptics.



Table 6B.—VALUE OF PRODUCT CLASSES SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, BY DIVISIONS AND STATES FOR 1954, AND UNITED STATES TOTALS FOR EARLIER YEARS

(In thousands of dollars. Statistics are shown for selected product classes which are economically significant and production of which is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (Table 2) and they are not miscellaneous or "not specified by type" classes. For each product class, States are listed only if the value of shipments is more than \$1 million and the figure does not disclose individual company information. Additional States which had shipments of more than \$1 million of the individual product classes are listed in footnote 1)

Product class, region, and State <sup>1</sup>	Value of shipments	Product class, region, and State <sup>1</sup>	Value of shipments	Product class, region, and State <sup>1</sup>	Value of shipments
<b>Biological products (28310)</b>		<b>Pharmaceutical preparations for veterinary use (28341)—Continued</b>		<b>Vitamins for human use (28345)</b>	
1954 United States, total.....	79,909	South.....	9,683	1954 United States, total.....	214,509
1952 United States, total.....	79,868	Virginia.....	6,046	1947 United States, total.....	186,963
1951 United States, total.....	86,890	Texas.....	1,511		
1950 United States, total.....	69,171	West.....	1,079	1954	
1947 United States, total.....	56,397			New England.....	1,737
1954		<b>Antibiotic preparations for human use (28342)</b>		Middle Atlantic.....	70,512
Northeast.....	24,763	1954 United States, total.....	252,892	New York.....	51,555
New York.....	11,152	1947 United States, total.....	81,830	New Jersey.....	8,727
Pennsylvania.....	8,227	1954		Pennsylvania.....	10,229
East North Central.....	21,076	Northeast.....	180,690	North Central.....	123,667
Indiana.....	9,687	New York.....	140,198	East North Central.....	117,874
Illinois.....	4,141	Pennsylvania.....	27,952	Ohio.....	3,037
Michigan.....	5,291	East North Central.....	69,750	Indiana.....	36,970
Wisconsin.....	1,307	Michigan.....	36,495	Illinois.....	22,492
West North Central.....	18,699	West North Central.....	1,217	Michigan.....	53,560
Iowa.....	6,603	South and West.....	1,235	Wisconsin.....	1,814
Nebraska.....	4,807	<b>Cough and cold products for human use (28343)</b>		West North Central.....	5,793
Kansas.....	2,720	1954 United States, total.....	64,556	Missouri.....	4,436
South.....	3,298	1954		South.....	3,139
Texas.....	1,055	New England.....	1,687	Tennessee.....	1,995
West.....	12,073	Middle Atlantic.....	28,370	West.....	15,453
California.....	10,709	New York.....	7,716	California.....	15,291
<b>Inorganic and organic medicinals, uncombined—bulk (28332)</b>		New Jersey.....	3,291		
1954 United States, total.....	266,035	Pennsylvania.....	17,362	<b>Other pharmaceutical preparations for human use (28346)</b>	
1953 United States, total.....	346,800	East North Central.....	12,741	1954 United States, total.....	830,742
1952 United States, total.....	322,006	Ohio.....	2,175	1954	
1951 United States, total.....	403,858	Illinois.....	1,467	New England.....	18,572
1950 United States, total.....	309,547	Michigan.....	8,471	Massachusetts.....	11,528
1947 United States, total.....	178,485	West North Central.....	7,045	Middle Atlantic.....	402,328
1954		Missouri.....	6,684	New York.....	145,581
Northeast.....	168,282	South Atlantic.....	11,526	New Jersey.....	173,274
New York.....	32,997	East South Central.....	1,915	Pennsylvania.....	83,472
New Jersey.....	85,796	Pacific.....	659	East North Central.....	310,259
East North Central.....	35,461	<b>Laxatives, stomach, and ulcer products, human use (28344)</b>		Ohio.....	17,427
Indiana.....	11,626	1954 United States, total.....	2123,368	Indiana.....	116,980
Illinois.....	12,776	1954		Illinois.....	97,774
Michigan.....	8,029	New England.....	9,327	Michigan.....	71,588
West North Central.....	19,048	Middle Atlantic.....	59,174	Wisconsin.....	6,089
South.....	35,020	New York.....	26,989	West North Central.....	27,253
West.....	8,223	New Jersey.....	28,396	Missouri.....	23,016
California.....	7,716	Pennsylvania.....	3,788	South Atlantic.....	32,786
<b>Pharmaceutical preparations for veterinary use (28341)</b>		East North Central.....	28,559	Maryland.....	11,347
1954 United States, total.....	85,774	Illinois.....	13,101	Virginia.....	9,571
1947 United States, total.....	30,369	Michigan.....	9,215	North Carolina.....	6,321
1954		West North Central.....	12,356	Georgia.....	2,607
Northeast.....	40,062	Missouri.....	12,180	East South Central.....	19,261
New York.....	33,097	South Atlantic.....	2,664	West South Central.....	2,495
Pennsylvania.....	3,469	Virginia.....	1,718	Texas.....	1,302
East North Central.....	14,965	East South Central.....	9,004	West.....	17,788
Ohio.....	4,561	West South Central.....	1,615	California.....	17,005
Indiana.....	5,456				
Illinois.....	3,798				
West North Central.....	19,985				
Iowa.....	8,765				
Missouri.....	7,135				
Nebraska.....	2,614				

Note: The figures shown for 1950 to 1953 are sample estimates obtained from the Annual Survey of Manufactures for those years. Since the estimates are based on a sample they are subject to sampling variability, that is, they are not the same as figures which would have been obtained if complete censuses had been taken for those years. Measures of the sampling variability (standard errors) of the estimated total value of shipments of each product class are shown in the Annual Survey of Manufactures publications. Also shown are the standard errors of the relative change in shipments between some consecutive Annual Survey years which are the more significant measures when the series is studied for trend.

<sup>1</sup>For the specified product classes, shipments of over \$1 million were reported for the States listed but the exact figures are withheld to avoid disclosure of individual company figures: 28310, New Jersey, Missouri, and Maryland; 28332, Connecticut, Pennsylvania, Ohio, Iowa, Missouri, Virginia, West Virginia, and Georgia; 28341, New Jersey; 28342, New Jersey, Indiana, and Illinois; 28343, Massachusetts, Maryland, North Carolina, Georgia, and Tennessee; 28344, Massachusetts, Connecticut, Ohio, Indiana, Tennessee, and Mississippi; 28346, Rhode Island, Connecticut, Minnesota, Nebraska, West Virginia, Tennessee, Mississippi, and Arkansas.

<sup>2</sup>Includes \$669 thousand for the Western region.



Table 7.—MATERIALS CONSUMED, BY KIND: 1954

Code	Description of materials	Industry 2834—Pharmaceutical preparations Delivered cost (\$1,000)
	Materials, containers, and supplies, total.....	458,998
282925	Alcohols-amy1, butyl, methyl, and propyl.....	1,593
282921	Alcohol, ethyl, pure.....	3,251
282923	Alcohol, ethyl, denatured.....	4,120
970000	All other materials and components, containers, and supplies, including materials, etc., not specified by kind.....	450,034

Table 8.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY INDUSTRY SPECIALIZATION AND PRIMARY PRODUCT CLASS SPECIALIZATION, FOR THE UNITED STATES: 1954

(This table presents selected statistics for establishments classified according to their degree of specialization in products primary to the industry. The establishments are classified in two ways: (1) by industry specialization—the degree of specialization in all primary products of the industry; and (2) by product-class specialization—the degree of specialization in the largest product class of the establishment. The degree of "industry specialization" for an establishment represents the ratio of its primary product shipments to its total product shipments, primary and secondary. The degree of "product-class specialization" for an establishment represents the ratio of its largest product class shipments to its total product shipments, primary and secondary. Data are not shown for some industries, product classes, and specialization ranges for a variety of reasons, consequently, detailed figures frequently do not add to the totals. See Introduction for detailed explanation)

Ind. or product class No.	Industry or product class by percent of specialization	Establishments, number	All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
2831	BIOLOGICAL PRODUCTS (entire industry).....	93	3,965	15,789	2,864	5,722	9,333	36,680	24,292	60,973
	Establishments with:									
	90% or more specialization.....	77	2,486	9,665	1,823	3,648	5,984	22,835	15,391	38,226
	75-89% specialization.....	7	191	764	125	253	380	1,809	1,228	3,037
	50-74% specialization.....	9	1,287	5,359	915	1,821	2,968	12,036	7,673	19,709
2833	MEDICINAL CHEMICALS, INC. BOTANICALS (entire industry)..	115	11,541	56,872	7,743	16,229	33,345	138,877	113,600	252,478
	Establishments with:									
	90% or more specialization.....	81	2,169	9,788	1,517	3,120	5,562	27,175	23,147	50,323
	75-89% specialization.....	11	1,430	6,996	1,180	2,719	5,448	21,066	18,791	39,858
	50-74% specialization.....	16	5,385	26,603	3,554	7,293	15,049	72,618	54,159	126,778
	All other <sup>1</sup> .....	7	2,555	13,484	1,490	3,096	7,284	18,017	17,502	35,519
28332	Inorganic and organic medicinals, un compounded-bulk:									
	All establishments specializing in product class.	80	10,978	54,507	7,324	15,405	31,870	132,214	106,994	239,209
	Establishments with:									
	90% or more specialization.....	48	1,743	8,087	1,196	2,486	4,472	22,059	17,858	39,918
	75-89% specialization.....	12	1,463	7,177	1,198	2,754	5,527	21,350	19,185	40,536
	50-74% specialization.....	14	5,222	25,801	3,439	7,068	14,585	70,870	52,601	123,472
	Less than 50% specialization.....	6	2,549	13,442	1,490	3,096	7,284	17,934	17,348	35,282
2834	PHARMACEUTICAL PREPARATIONS (entire industry) .....	1,163	76,555	353,769	47,320	95,123	173,324	1,161,004	482,136	1,643,140
	Establishments with:									
	90% or more specialization.....	1,014	50,950	232,838	30,225	59,481	105,610	810,306	323,337	1,133,643
	75-89% specialization.....	56	17,898	86,186	12,181	25,350	49,946	249,537	112,914	362,452
	50-74% specialization.....	70	5,758	27,091	3,881	8,260	14,486	77,254	38,088	115,342
	All other <sup>1</sup> .....	23	1,948	7,652	1,031	2,031	3,280	23,905	7,796	31,702
28341	Pharmaceutical preparations for veterinary use:									
	All establishments specializing in product class.	111	2,924	12,359	1,437	2,699	4,009	26,466	19,256	45,720
	Establishments with:									
	90% or more specialization.....	86	916	3,695	549	989	1,473	9,893	8,468	18,360
	75-89% specialization.....	10	782	3,494	342	682	1,041	6,851	4,829	11,681
28342	Antibiotic preparations for human use:									
	All establishments specializing in product class <sup>2</sup>	18	9,282	42,640	7,620	16,325	29,964	167,517	80,504	248,021
28343	Cough and cold products for human use:									
	All establishments specializing in product class.	55	2,191	9,365	1,219	2,342	3,714	31,486	11,868	43,358
	Establishments with:									
	90% or more specialization.....	36	606	3,055	530	981	1,439	8,897	3,907	12,808
28344	Laxatives, stomach and ulcer products for human use:									
	All establishments specializing in product class.	78	2,055	9,219	1,493	2,816	4,539	42,078	13,521	55,600
	Establishments with:									
	90% or more specialization.....	52	1,021	5,277	895	1,730	2,755	24,021	7,386	31,407
	75-89% specialization.....	8	270	997	193	345	641	7,646	2,576	10,222
	50-74% specialization.....	12	702	2,777	360	664	1,060	10,067	3,303	13,371
	Less than 50% specialization.....	6	62	168	43	76	81	343	255	599
28345	Vitamins for human use:									
	All establishments specializing in product class.	86	4,484	20,572	2,638	5,260	9,065	44,434	39,073	83,507
	Establishments with:									
	90% or more specialization.....	46	787	3,515	536	966	1,613	9,426	5,944	15,371
	75-89% specialization.....	15	2,733	13,553	1,445	2,995	5,545	25,461	23,732	49,193
	50-74% specialization.....	18	464	1,701	284	563	769	3,733	4,002	7,735
	Less than 50% specialization.....	7	500	1,802	372	736	1,136	5,814	5,394	11,208
28346	Other pharmaceutical preparations for human use:									
	All establishments specializing in product class.	578	50,502	236,700	30,037	59,328	110,649	790,553	296,759	1,087,311
	Establishments with:									
	90% or more specialization.....	352	8,419	35,885	5,085	9,476	15,567	145,811	46,939	192,750
	75-89% specialization.....	67	8,805	41,451	4,493	8,451	15,656	178,791	54,329	233,121
	50-74% specialization.....	129	22,245	107,348	13,360	27,157	51,255	269,260	124,923	394,184
	Less than 50% specialization.....	30	11,032	52,015	7,098	14,243	28,170	196,689	70,567	267,256

<sup>1</sup>This class includes data for establishments with less than 50% specialization in the primary products of the industry and establishments engaged exclusively in contract work defined in the industry. Miscellaneous small statistical adjustments are also included.

<sup>2</sup>Over 80 percent of the value of products shipped was by establishments specializing between 50-75 percent of this product class.

## MANUFACTURES--INDUSTRY STATISTICS

TABLE 9.—VALUE OF SHIPMENTS FOR SELECTED INDUSTRIES, BY CLASS OF CUSTOMER; 1954

Item	Shipments including interplant transfers <sup>1</sup>					
	Biological products, Industry 2831		Medicinal chemicals, inc. botanicals, Industry 2833		Pharmaceutical preparations, Industry 2834	
	Value (\$1,000)	Percent of total	Value (\$1,000)	Percent of total	Value (\$1,000)	Percent of total
All establishments in the industry.....	66,058	xxx	271,260	xxx	1,696,603	xxx
Establishments reporting class of customer data, total.....	60,685	100	262,870	100	1,652,710	100
Transfers to other manufacturing plants of the same company.....	3,944	6	74,401	28	11,127	.1
Shipments to wholesalers, distributors, jobbers, supply houses, coopera- tives, exporters located in the U.S., etc.....	19,902	33	61,661	23	848,300	51
Shipments to retailers, including retail chains, mail-order houses, de- partment stores, and independent stores.....	3,225	5	8,529	3	447,786	27
Shipments to hospitals, doctors, veterinarians, etc.....	24,266	40	4,830	2	122,056	8
Shipments to the Federal Government.....	4,733	8	7,889	3	35,274	2
Shipments to State and local government including institutional users other than hospitals.....	970	2	4,206	2	21,257	1
Shipments to other manufacturers.....	1,559	3	72,905	28	42,903	3
Shipments to buyers in foreign countries or through their agents in this country.....	2,086	3	9,711	4	51,654	3
Shipments to foreign branches or subsidiaries of the same company.....			18,481	7	67,980	4
Shipments to others (including samples).....			257	...	4,373	...

<sup>1</sup>Represents total value of primary and secondary products, includes resales but excludes receipts for contract work, scrap, research and develop-  
ment work by establishments classified in specified industries.

# Soap, Glycerin, Cleaning, Polishing, and Related Products

This report shows 1954 Census of Manufactures statistics for establishments classified into each of the following industries:

Code	Title
2841--	Soap and Glycerin
2842--	Cleaning and Polishing Products
2843--	Sulfonated Oils and Assistants

In classifying establishments included in this group, distinction was made between manufacturers of soap products producing from fats and alkalis, and those producing from purchased soap (soap converters). The former were included in Industry 2841, Soap and Glycerin; whereas those who made soap products from purchased soap were classified either in Industry 2842, Cleaning and Polishing Products or, in Industry 2893, Toilet Preparations.

Since 1947, soap sales have declined by more than 50 percent, while 1954 sales of synthetic detergents have increased about five fold. This trend is also reflected in the activities of the plants classified in Industries 2841 and 2842, regardless of the fact that the former industry includes only those establishments operating soap kettles. As indicated in Table 5B, Industry-Product Analysis, during 1954 plants classified in Industry 2841 shipped \$343 million of soap and soap products and \$443 million of synthetic organic and alkaline detergents. These plants accounted for 68 percent of the total bulk and packaged synthetic organic detergents shipped by all manufacturing industries. In 1947, plants classified in Industry 2841, shipped soap and soap products totaling \$800 million and synthetic detergents of less than \$108 million.

While commodity data for cleaning preparations, known as synthetic organic detergents, were compiled, no attempt was made to secure commodity detail for bulk surface active agents, as reported to the United States Tariff Commission. Establishments reporting to the Bureau of the Census furnished dollar values for all bulk surface active agents, distinguishing between those primarily used for detergent purposes and those for other purposes. For sulfated and sulfonated oils, fats and waxes, quantities shipped were also reported to the Bureau of the Census. As indicated in the table below, the dollar values reported to the Bureau of the Census differ from those reported to the United States Tariff Commission as follows:

## SHIPMENTS OF BULK SURFACE ACTIVE AGENTS

(In thousands of dollars)

Code	Product	Reported to--	
		Census Bureau	Tariff Commission
	Total.....	130,220	196,433
2843011	Sulfonated oils and fats.....	23,852	6,787
2842271	Other bulk surface agents primarily for detergent purposes.....	51,616	189,646
2829471	Emulsifiers, wetting agents, penetrants, etc.....	54,752	

The Census total for bulk surface active agents is less than the figure published by the United States Tariff Commission partly because of reporting differences. The Census classification system distinguishes between the chemical shipped as such, as well as among the finished products into which these

chemicals are incorporated, such as packaged or bulk synthetic detergents, shampoos, dentifrices, leather or textile softeners and assistants, wetting agents for agricultural, insecticidal, and fungicidal preparations or quaternary ammonium compounds. Thus, sizeable amounts, which were reported to the Tariff Commission as bulk surface active agents, were reported to the Census Bureau as finished packaged detergents or other chemical specialty products.

In addition, the totals for each of these specific groups of bulk surface products differ because the census reports requested that product data be reported separately for bulk surface active agents on the basis of end use rather than by chemical composition. For example, product distinctions were made between bulk surface active agents used mainly for detergent purposes (primary to Industry 2842) and other bulk surface active agents such as emulsifiers, penetrants, etc. (primary to Industry 2829, Industrial Inorganic Chemicals, N.E.C.), rather than on the basis of whether they were cyclic or acyclic. The census figures also include data for additives, diluents, processing and packaging, whereas the Tariff Commission data are stated in terms of 100% active material. In addition, the Bureau of the Census required dollar evaluations for interplant transfers even when the products so shipped were entirely consumed by other plants of the same company. In reporting to the Tariff Commission, this transfer may not be reported as a sale, although the Commission requires that production be reported whether the products are consumed in the same plant or not.

Other principal causes for the differences are due to "coverage". Sulfonated oils and fats as defined by the Tariff Commission are limited to sulfonates of animal, vegetable, and marine origin; whereas the census definition includes these products as well as the sulfonated acids, amides, and esters. Lastly, the census totals include reports for some companies which did not report to the Tariff Commission.

## 2841--Soap and Glycerin

Industry 2841, Soap and Glycerin, comprises establishments primarily engaged in manufacturing soap in any form (including shampoos and shaving creams) and in manufacturing crude and refined glycerin. Establishments primarily engaged in manufacturing washing powders and compounds and not engaged in manufacturing soap (soap converters) are classified in Industry 2842, Cleaning and Polishing Products; shampoos and shaving creams from purchased soap, in Industry 2893, Toilet Preparations; and metal soap pads in Industry 3291, Abrasive Products.

All establishments which produce soap in kettles located in the same establishment are classified in Industry 2841, except those for which the primary products are metal soap pads or steel wool (codes 391231-55). Hence, the list of products primary to Industry 2841, include not only product codes 2841111 to 2841451, but also include the detergents shown in product class codes 28421 and 28422.

The value of shipments of Industry 2841, Soap and Glycerin in 1954 totaled \$960 million. This included shipments of soap and synthetic organic detergents (primary products) valued at \$802 million, shipments of secondary products valued at \$157 million, and miscellaneous receipts of \$1 million.

Industry 2841 shipments of primary products (soap and glycerin and bulk and packaged synthetic organic detergents) in 1954 represented 84 percent of its total product shipments (primary and secondary). In 1947, this primary product specialization ratio was 81 percent. Secondary products shipped by this industry in 1954 consisted mainly of alkaline detergents, \$14 million; toilet preparations, \$100 million; specialty detergents, \$21 million; and chemical specialties, \$3 million.

Industry 2841 shipments of soap and glycerin in 1954 represented 74 percent of the soap, glycerin, and synthetic organic detergents valued at \$1,077 shipped by all industries. This



coverage ratio in 1947 was 91 percent. Plants in other industries manufacturing soap products represented those manufacturing the products from purchased soap. They consisted mainly of soap converters, Industry 2842, Cleaning and Polishing Products; and establishments manufacturing shaving creams and soaps, Industry 2893, Toilet Preparations.

Although all establishments classified in Industry 2841 reported that the soap or soap products manufactured by them were produced in soap kettles located in the reporting establishment, marked variations in size of plant may be noted. Generally, plants specializing in the manufacture of liquid soaps are relatively small since these soaps are made in batch operations by the "cold-made" process in contrast to the more continuous processes, particularly the "full boiled" process used for making the "sodium" soaps. In the latter process, glycerin is recovered as a byproduct.

In Table 6A, no distinction is made between soap products made by prime soap manufacturers and by establishments which purchase and convert soap to soap products (soap converters). The dollar value of soap products shipped by soap converters are the totals shown as shipped by industries other than Industry 2841 appearing in Table 5B.

In addition, a measure of the quantity of soap produced by prime producers may be derived from the information shown in Table 7, where the quantities of soap purchased are shown. Data relating to shampoos and brushless shaving creams are shown among the commodity statistics for Industry 2893, Toilet Preparations.

Data showing monthly production, consumption and stocks at the end of month for glycerin are also published in the Census Facts for Industry Series M17-1, Animal and Vegetable Fats and Oils. The data for production appearing in this report differ slightly from those appearing in the current survey. Respondents were not requested to report the quantities of fats and oils consumed in the manufacture of soap since such information is reported monthly and appears in the Census Facts for Industry Series M17-2, Fats and Oils, Consumption by End Uses. Although separate data were also not requested for other raw materials such as rosin, essential oils, and pigments, data are shown in Table 7 for several sodium phosphate compounds, principally used as "builders" (additives whose purpose is to improve the detergency of the mixture).

#### 2842--Cleaning and Polishing Products

Industry 2842, Cleaning and Polishing Products, comprises establishments primarily engaged in manufacturing cleansers, washing powders and washing compounds and which are not engaged in manufacturing soap. Establishments primarily engaged in manufacturing dry-cleaning preparations, metal, automobile, stove, shoe, and other polishes; paint and varnish removers; waxes, stains, finishes, and dressings for fabricated leather and other materials; burnishing inks, and related products are also included in this industry. Establishments primarily engaged in manufacturing soap are classified in Industry 2841, Soap and Glycerin; bluing, laundry soaps, water softeners and other chemical specialties in Industry 2899, Chemical Products, Not Elsewhere Classified; and metal soap pads in Industry 3291, Abrasive Products. For a detailed list of primary products of Industry 2842, refer to Table 6A product codes 2842111 to 2842555, as well as product codes 2841111 to 2841198, 2841211 to 2841298, and 2841311.

The value of shipments of Industry 2842 in 1954 totaled \$560 million. This included shipments of primary products (cleaning and polishing preparations) valued at \$447 million, shipments of secondary products valued at \$110 million, and miscellaneous receipts \$3 million.

Receipts for merchandising (products bought and resold without further manufacture or processing) valued at \$47 million are excluded from the \$560 million value of shipments of Industry 2842. Data relating to these merchandising receipts are also excluded from the cost of materials and value added by manufacture, but these activities are reflected in other detailed industry statistics, mainly employment and inventory.

Industry 2842 shipments of cleaning and polishing preparations in 1954 represented 80 percent of its total product shipments (primary and secondary). In 1947, this primary product specialization ratio was 70 percent. Secondary products shipped by this industry in 1954 consisted mainly of chemical specialties, \$19 million; organic chemicals, \$5 million; and household insecticides and repellents, \$6 million.

Industry 2842 shipments of cleaning and polishing preparations in 1954 represented 45 percent of those products valued at \$998 million shipped by all industries. This coverage ratio in 1947 was 52 percent. For reasons indicated above, a considerable proportion (\$398 million) of packaged synthetic organic detergents are shipped by plants classified in Industry 2841, Soap and Glycerin; bulk surface active agents, (\$18 million) by plants classified in Industry 2829, Organic Chemicals, N.E.C.; and alkaline detergents, by plants classified in Industry 2812, Alkalies and Chlorine. Polishing and related products are also made by plants primarily engaged in manufacturing other chemical specialties, Industry 2899.

Establishments primarily packaging and merchandising cleaning and polishing products and also incidentally engaged in manufacturing some of these products are classified in Trade Industries (1954 Census of Business). No measure of the manufacturing activities performed by such establishments are available.

Table 8 indicates that plants classified in Industry 2842 limit their activities to a relatively small range of products classified as primary to this industry. The product range is frequently narrower than those included in the product classes. For example, a considerable number of plants specialize in the manufacture of polishing preparations. Within this product grouping there is further specialization as, for example, firms engaged in manufacturing floor polishes generally do not manufacture shoe polishes.

The data appearing in Table 7 are primarily limited to the materials consumed in soap and synthetic organic and alkaline detergents. These quantities purchased and incorporated into synthetic organic detergent mixtures provide a partial measure of the net quantities shipped to other industries. No measures of the quantities produced and consumed, however, are available.

#### 2843--Sulfonated Oils and Assistants

Industry 2843, Sulfonated Oils and Assistants, comprises establishments primarily engaged in producing sulfonated oils and fats and related products such as tanning assistants, softeners, and soluble oils and greases. Establishments primarily engaged in manufacturing petroleum sulfonates and "other assistants" such as egg yolks, wetting agent preparations, waterproofing emulsions and mordants, are also included in this industry.

Establishments primarily engaged in manufacturing sodium and potassium bichromate are classified in Industry 2819, Industrial Inorganic Chemicals, N.E.C.; tannic acid and synthetic organic tanning materials in Industry 2829, Industrial Organic Chemicals, N.E.C.; leather dressings and finishes for fabricated leather in Industry 2842, Cleaning and Polishing Products; natural tanning extracts and materials in Industry 2865, Natural Tanning and Dyeing Materials; and sizes and specialty textile chemicals in Industry 2899, Chemical Products, N.E.C. For a detailed list of primary products of Industry 2843, refer to Table 6A, product codes 2843011 to 2843071.

Assistants are substances not present in the finished product which increase the speed or completeness of tanning or dyeing reactions without taking part in the reaction itself. Examples for textiles are detergents, bleaches, boil-off soaps, and wetting agents; and for leather, sulfide cellulose extracts, formaldehyde, and sodium phosphates. Whenever respondents specified in sufficient detail that the assistants were soaps or detergents, the data were excluded from this category and included among those for soaps and detergents, (products of Industry 2841 and 2842 respectively), even though it was recognized that these products were used not to clean but to provide emulsifying and penetrating properties in combination with chemicals and other oils. Similarly, among the "finishes" were such products as gum, dextrin and other sizes, and specialty textile chemicals which, when specified in sufficient detail, were also excluded from the primary production of this industry and included among the respective commodities for Industry 2899, Chemical Products, N.E.C.

The value of Industry 2843 in 1954 totaled \$63 million. This included shipments of primary products (sulfonated oils and assistants) valued at \$47 million; shipments of secondary products valued at \$16 million; and a negligible amount for miscellaneous receipts.

Industry 2843 shipments of sulfonated oils and assistants, (primary products) in 1954 represented 74 percent of its total product shipments (primary and secondary). In 1947, this primary product specialization ratio was 77 percent. Secondary

products shipped by this industry in 1954 consisted mainly of sizes and other chemical specialties, \$1 million; alkaline and synthetic organic detergents and soap, \$2 million; and organic chemicals, \$1 million.

Industry 2843, shipments of sulfonated oil and assistants, in 1954 represented 78 percent of these products valued at \$60

million shipped by all industries. This coverage ratio in 1947 was 76 percent. Other industries shipping sulfonated oils, assistants, and finishes in 1954 consisted mainly of Industry 2822, Intermediates and Organic Colors, \$2 million; and Industry 2829, Organic Chemicals, N.E.C., \$2 million.

The general statistics (employment, payrolls, value of shipments, cost of materials, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products, and, for that matter, their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (Tables 1-4) with product statistics (Table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in Table 5A which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry made as secondary products by establishments classified in other industries.

## MANUFACTURES--INDUSTRY STATISTICS

Table 1.—GENERAL STATISTICS FOR THE UNITED STATES: 1954 AND EARLIER YEARS

(For explanation of column captions see Introduction)

Industry and census year	Establishments, number	All employees		Production workers		Value added by manufacture <sup>2</sup>	Cost of materials, etc.	Value of shipments <sup>3</sup>
		Number <sup>1</sup>	Payroll (\$1,000)	Number <sup>1</sup>	Wages (\$1,000)			
Soap and glycerin (S.I.C. 2841):								
1954 <sup>4</sup> .....	289	25,839	127,817	15,668	68,303	510,756	448,923	959,679
1953 <sup>5</sup> .....	(NA)	27,923	130,932	18,242	76,302	522,110	453,252	975,362
1952 <sup>5</sup> .....	(NA)	25,412	119,583	16,752	66,627	486,409	424,935	910,990
1951 <sup>5</sup> .....	(NA)	25,794	113,817	17,225	65,660	455,625	548,470	1,003,741
1950 <sup>5</sup> .....	(NA)	25,938	102,365	17,641	72,896	454,993	435,987	890,625
1949 <sup>5</sup> .....	(NA)	26,747	97,547	18,475	59,892	417,844	407,553	825,193
1947.....	247	27,508	93,187	19,304	57,391	449,792	639,596	1,084,032
1939.....	264	20,191	33,091	13,624	18,801	141,632	161,002	302,634
1937.....	232	17,628	26,779	14,008	19,075	116,122	185,170	301,292
1935.....	238	17,053	22,390	13,911	15,339	99,659	139,493	239,152
1933.....	235	17,828	20,451	14,304	14,140	106,621	93,507	200,128
1931.....	248	(NA)	(NA)	14,163	17,740	135,890	121,829	257,719
1929.....	282	19,051	30,498	14,363	18,995	129,839	180,353	310,192
1927.....	256	17,591	29,482	13,432	19,716	114,816	172,244	287,060
1925.....	272	20,009	28,833	15,406	18,526	93,399	184,874	278,273
1923.....	270	24,238	36,487	17,002	20,776	102,857	173,546	276,403
1921.....	283	22,519	32,566	16,558	18,865	89,839	150,356	240,195
1919.....	348	28,736	35,400	20,436	21,228	78,221	238,519	316,740
1914.....	371	19,587	14,780	14,172	8,088	39,075	88,867	127,942
1909.....	420	18,064	11,732	12,999	6,227	39,179	72,179	111,358
1904 <sup>6</sup> .....	436	14,102	8,265	11,044	4,763	24,649	43,626	68,275
Cleaning & polishing preparations (S.I.C. 2842):								
1954.....	1,151	18,026	78,550	10,551	34,593	288,590	271,478	560,059
1953 <sup>5</sup> .....	(NA)	17,521	82,127	8,732	30,380	237,320	214,442	451,762
1952 <sup>5</sup> .....	(NA)	19,449	80,620	10,261	31,737	221,273	214,647	453,865
1951 <sup>5</sup> .....	(NA)	18,663	73,491	10,320	30,600	197,767	203,763	401,470
1950 <sup>5</sup> .....	(NA)	20,286	69,987	11,637	29,523	198,476	171,477	369,898
1949 <sup>5</sup> .....	(NA)	17,365	57,609	9,412	25,515	167,691	139,988	308,687
1947.....	1,038	15,387	48,324	9,093	20,983	136,602	128,417	264,610
1939.....	637	9,978	15,965	5,128	5,667	52,097	37,670	89,767
1937 <sup>7</sup> .....	510	7,057	10,716	4,877	5,422	45,422	31,632	77,054
1935.....	562	6,612	10,052	4,322	4,500	34,648	25,691	60,339
1933.....	481	6,060	6,960	4,380	4,226	38,442	21,662	60,104
1931.....	544	(NA)	(NA)	3,950	4,635	44,430	23,920	68,350
1929.....	599	6,720	11,691	4,330	5,316	47,717	27,744	75,461
1927.....	517	6,281	10,491	4,119	5,169	39,378	24,405	63,783
1925.....	470	6,342	10,371	4,030	4,824	36,634	22,441	59,075
1923.....	473	7,189	11,011	4,541	4,916	37,412	23,853	61,265
1921.....	452	5,494	7,980	3,353	3,407	21,310	20,321	41,631
1919.....	719	7,494	10,325	4,410	4,008	25,022	26,965	51,987
1914.....	595	4,964	4,152	3,005	1,496	10,009	9,024	19,033
1909.....	501	3,973	2,926	2,417	1,146	7,717	9,962	14,679
1904.....	294	2,505	1,511	1,782	738	4,268	4,383	8,651
1899.....	275	2,444	1,346	1,758	634	3,546	3,152	6,698
Sulfonated oils and assistants (S.I.C. 2843):								
1954.....	103	2,355	13,044	1,352	4,729	28,322	34,655	62,977
1947.....	106	1,969	7,986	1,257	3,478	20,407	31,668	52,075
1939 <sup>8</sup> .....	85	(NA)	(NA)	757	935	7,259	10,504	17,763

NA Not available.

<sup>1</sup>For the period 1949-1954, figures are based on employment for the payroll periods ended nearest the 15th of March, May, August and November. For 1947, they represent the average of 12 monthly figures. For earlier years, the production worker average was calculated as in 1947, but the all employees figure represents the sum of the annual average number of production workers and number of nonproduction workers reported for one payroll period (usually in October).

<sup>2</sup>Value of products less cost of materials, supplies, fuel, electric energy and contract work. See Introduction, "Value added by Manufacture." For the "Soap and glycerin" and "Cleaning and polishing products" industries, 1947 value added by manufacture does not equal the published value of shipments less cost of materials, etc. because an estimated value of production was used in the calculation in place of value of shipments. Since the 1949-1952 estimates were derived from 1947 base totals, the same inequality may exist for these years.

<sup>3</sup>For 1929 and 1947-1954, value of shipments; for all other years, value of production. See Introduction, "Value of Shipments."

<sup>4</sup>In this industry, which contains a large number of very small establishments, there is a possibility that some of these small establishments have been misclassified as to industry. This would not effect the statistics other than the number of establishments.

<sup>5</sup>The figures for 1949-1953 represent estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period. Estimates with a standard error in excess of 15 percent generally have been omitted from this table.

<sup>6</sup>In 1899, "Soap and glycerin" was combined with "Candles" in a single industry. Separate figures are, therefore, not available.

<sup>7</sup>Figures for 1899-1937 comparable with those for 1939-1954 were obtained by combining the data for "Cleaning and polishing products" and the discontinued classification "Blackening, staining, and dressings."

<sup>8</sup>Sulfonated oils and assistants" was classified prior to 1947 in the discontinued industry, "Tanning materials, natural dyestuffs, mordants, assistants, and sizes." The dyestuffs 1939 figures were obtained by retabulation of the 1939 returns for the latter industry. No comparable data are available for earlier years.



## SOAP, GLYCERIN; CLEANING, POLISHING, AND RELATED PRODUCTS

28D-5

Table 2.—GENERAL STATISTICS BY REGIONS AND STATES: 1954 AND 1947

(For explanation of column captions see Introduction)

Industry, region, and State <sup>1</sup>	1954											1947	
	Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
	Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
Soap and glycerin (S.I.C. 2841), total.....	289	88	25,839	127,817	15,668	29,259	68,303	510,756	448,923	959,679	13,358	27,508	449,792
New England.....	29	9	1,836	8,111	1,311	2,463	5,262	38,281	30,934	69,216	495	2,280	34,316
Massachusetts.....	25	7	1,692	7,597	1,195	2,235	4,880	37,612	29,825	67,438	465	1,881	31,724
Middle Atlantic.....	80	20	8,506	43,299	4,551	8,921	20,385	120,210	105,386	225,597	5,992	9,114	111,049
New Jersey.....	21	8	6,109	32,401	2,937	5,796	13,613	72,194	62,093	134,288	5,448	5,012	49,146
East North Central.....	78	20	8,499	43,297	5,309	10,501	23,509	183,329	162,683	346,012	4,334	9,790	(D)
Ohio.....	18	8	2,533	14,527	1,609	3,236	7,650	67,288	62,507	129,796	1,123	3,047	58,671
Indiana.....	7	3	2,950	14,347	1,906	3,842	8,703	67,183	52,318	119,501	(D)	3,350	(D)
Illinois.....	26	9	2,885	13,951	1,712	3,260	6,906	48,034	46,632	94,667	(D)	3,263	37,752
Michigan.....	15	...	66	268	41	83	145	467	871	1,339	79	45	711
Wisconsin.....	12	...	63	203	39	78	103	355	353	708	16	85	(D)
West North Central.....	27	10	2,466	11,522	1,646	1,882	6,956	61,547	44,885	106,432	1,286	(D)	(D)
Iowa.....	4	1	79	454	18	37	50	421	290	712	(D)	175	(D)
Missouri.....	10	5	554	2,820	307	605	1,357	16,112	13,745	29,857	127	564	8,669
Kansas.....	4	2	1,661	7,783	1,168	993	5,190	43,881	28,822	72,703	1,068	(D)	(D)
South.....	38	14	2,095	9,838	1,360	2,583	5,694	56,514	57,712	114,227	607	2,011	51,122
Maryland.....	6	5	1,212	5,848	844	1,574	3,683	35,190	37,293	72,484	298	994	(D)
Georgia.....	6	4	264	1,167	90	181	224	1,790	1,701	3,492	116	266	(D)
Louisiana.....	3		5	8	3	7	5	23	16	39	...	(D)	(D)
West.....	37	15	2,434	11,748	1,488	2,907	6,494	50,872	47,321	98,194	640	1,825	33,450
California.....	29	11	2,288	11,190	1,418	2,771	6,276	50,019	46,212	96,232	621	1,680	32,457
Cleaning and polishing preparations (S.I.C. 2842), total.....	1,151	173	18,026	78,550	10,551	20,206	34,593	288,590	271,478	560,059	12,711	15,387	136,602
New England.....	130	19	2,104	9,982	1,043	2,095	3,576	24,917	22,070	46,988	2,198	2,507	16,441
New Hampshire.....	6	2	102	510	51	103	130	841	969	1,810	29	(D)	(D)
Massachusetts.....	89	11	1,395	6,446	685	1,353	2,399	17,951	15,787	33,738	573	2,101	13,315
Middle Atlantic.....	313	56	5,523	21,799	3,542	6,840	11,013	69,679	78,489	148,169	1,782	4,729	48,862
New York.....	165	24	2,494	9,498	1,698	3,240	5,124	32,628	31,314	63,942	505	2,526	27,711
New Jersey.....	84	21	2,211	9,319	1,306	2,602	4,188	30,222	38,863	69,086	939	1,360	16,145
Pennsylvania.....	64	11	817	2,982	537	997	1,701	6,828	8,311	15,140	338	843	5,006
East North Central.....	285	54	5,596	27,091	3,196	6,203	11,598	133,635	109,481	243,117	5,906	4,561	(D)
Indiana.....	21	5	611	2,577	272	541	888	7,230	4,783	12,014	(D)	452	(D)
Illinois.....	97	24	1,650	7,590	1,058	2,164	3,770	34,144	30,070	64,215	(D)	1,783	(D)
Michigan.....	59	9	1,135	5,725	722	1,295	2,794	43,862	45,644	89,506	2,335	495	4,367
West North Central.....	102	10	1,419	6,173	856	1,588	2,917	20,272	26,566	46,839	785	919	(D)
Minnesota.....	26	1	153	542	99	152	236	1,348	1,157	2,506	61	125	953
Iowa.....	15	1	123	579	94	160	257	940	777	1,718	(D)	171	1,101
Missouri.....	51	8	1,109	4,964	642	1,242	2,373	17,832	24,500	42,333	563	537	3,352
Kansas.....	4		11	20	8	16	15	35	34	69	4	11	(D)
South and West.....	321	34	3,382	13,504	1,912	3,478	5,487	40,084	34,869	74,945	2,037	2,671	(D)
Maryland.....	16	3	301	909	238	370	600	1,927	3,444	5,372	133	370	(D)
Virginia.....	9	1	53	137	32	64	97	211	494	706	26	11	(D)
North Carolina.....	12	...	61	174	37	74	91	444	382	827	24	45	(D)
Tennessee.....	12	1	95	315	45	92	133	988	797	1,786	117	113	259
Alabama.....	4	1	62	182	30	83	93	241	286	527	(D)	47	(D)
Louisiana.....	9	...	48	139	36	68	91	436	465	902	40	31	(D)
Utah.....	5	1	37	127	27	31	38	245	198	444	4	7	(D)
Sulfonated oils and assistants (S.I.C. 2843), total.....	103	31	2,355	13,044	1,352	2,507	4,729	28,322	34,655	62,977	1,578	1,969	20,407
New England.....	23	3	211	1,303	103	194	438	2,679	3,272	5,952	52	354	3,571
Massachusetts.....	15	3	165	1,037	82	155	361	2,138	2,608	4,746	33	201	2,255
Rhode Island.....	8		46	266	21	38	75	541	644	1,205	18	153	1,316
Middle Atlantic.....	52	20	1,537	8,863	863	1,601	3,139	17,552	21,907	39,460	1,268	1,368	14,576
New Jersey.....	22	9	943	5,343	512	1,028	1,975	10,601	15,125	25,727	1,105	867	8,558

See footnotes at end of table.



## MANUFACTURES--INDUSTRY STATISTICS

Table 2.—GENERAL STATISTICS BY REGIONS AND STATE: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Industry, region, and State <sup>1</sup>	1954											1947	
	Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
	Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
Sulfonated oils, etc.—Continued													
East North Central.....	9	2	83	494	40	84	183	847	1,062	1,910	44	22	(D)
Illinois.....	5	1	46	308	18	39	77	444	634	1,079	(D)	22	(D)
South and West.....	19	6	521	2,382	345	626	967	7,243	8,411	15,655	212	98	(D)
North Carolina.....	8	3	157	696	108	186	264	1,935	2,246	4,181	44		

Note: Detailed figures may not add to the totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>General statistics for some producing States are not shown separately in the table (see INTRODUCTION "Confidentiality of Data for Individual Companies"). Such States are shown below with the number of establishments in each State for 1954 and, in parentheses, the number of employees or the employment-size range for that State for 1954:

S.I.C. 2841, Soap and Glycerin: New England—New Hampshire, 1 (1-19); Rhode Island, 1 (20-99); Connecticut, 2 (100-249); Middle Atlantic—New York, 31 (1,423); Pennsylvania, 28 (500-999); West North Central—Minnesota, 8 (20-99); Nebraska, 1 (20-99); South—South Carolina, 1 (1-19); Florida, 1 (1-19); Tennessee, 5 (20-99); Alabama, 1 (1-19); Oklahoma, 1 (1-19); Texas, 14 (500-999); West—Colorado, 2 (1-19); Washington, 3 (20-99); Oregon, 3 (20-99).

S.I.C. 2842, Cleaning and Polishing Preparations: New England—Maine, 1 (1-19); Vermont, 1 (20-99); Rhode Island, 10 (100-249); Connecticut, 23 (250-499); East North Central—Ohio, 78 (1,000-2,499); Wisconsin, 30 (1,000-2,499); West North Central—South Dakota, 1 (1-19); Nebraska, 5 (20-99); South and West—Delaware, 2 (1-19); District of Columbia, 1 (1-19); West Virginia, 3 (1-19); South Carolina, 5 (20-99); Georgia, 15 (100-249); Florida, 18 (100-249); Kentucky, 2 (1-19); Arkansas, 2 (1-19); Oklahoma, 3 (1-19); Texas, 36 (250-499); Idaho, 2 (1-19); Colorado, 9 (100-249); Arizona, 4 (1-19); Washington, 10 (20-99); Oregon, 9 (20-99); California, 133 (1,000-2,499).

S.I.C. 2843, Sulfonated Oils and Assistants: Middle Atlantic—New York, 11 (100-249); Pennsylvania, 19 (250-499); East North Central—Ohio, 1 (1-19); Michigan, 1 (1-19); Wisconsin, 2 (20-99); South and West—South Carolina, 6 (20-99); Georgia, 2 (100-249); Tennessee, 2 (100-249); California, 1 (1-19).

Table 3.—DETAILED STATISTICS FOR THE UNITED STATES: 1954

(For explanation of line captions see Introduction)

Item	Soap and glycerin (S.I.C. 2841)		Cleaning and polishing products (S.I.C. 2842)		Sulfonated oils and assistants (S.I.C. 2843)	
	All estab- lishments	Establish- ments with 90% or more primary prod- uct special- ization	All estab- lishments	Establish- ments with 90% or more primary prod- uct special- ization	All estab- lishments	Establish- ments with 90% or more primary prod- uct special- ization
Primary product specialization ratio <sup>1</sup> .....	84	xxx	80	xxx	74	xxx
Coverage ratio <sup>2</sup> .....	74	xxx	45	xxx	78	xxx
Number of establishments, total.....	289	197	1,151	907	103	64
With 1-19 employees.....	201	143	978	809	72	47
With 20-99 employees.....	51	30	140	81	27	17
With 100 employees and over.....	37	24	33	17	4	...
All employees:						
Number (average for year).....	25,839	13,071	18,026	11,143	2,355	924
Payroll.....\$1,000..	127,817	64,412	78,550	46,926	13,044	5,362
Production workers:						
Number (average for year).....	15,668	8,737	10,551	6,820	1,352	510
Man-hours.....	29,259	17,010	20,206	13,047	2,507	931
Wages.....\$1,000..	68,303	38,220	34,593	21,530	4,729	1,747
Value added by manufacture.....do.	510,756	311,015	288,590	180,331	28,322	11,251
Cost of materials, etc.....do.	448,923	291,414	271,478	160,017	34,655	13,654
Value of shipments.....do.	959,679	602,429	560,059	340,341	62,977	24,905
Value added by resales.....do.	14,887	6,541	13,039	4,588	1,012	134
Cost of products bought and resold.....do.	29,887	10,819	33,649	12,420	4,178	563
Sales of products bought and resold.....do.	44,774	17,361	46,689	17,008	5,191	697
Total inventories, beginning of year.....do.	125,671	77,466	60,364	38,616	7,827	2,397
Total inventories, end of year.....do.	120,012	73,280	58,767	36,363	9,058	2,239
Capital expenditures, new.....do.	13,358	3,800	12,711	6,370	1,578	697
Number of employees for selected months:						
March.....	26,130	13,362	18,183	11,248	2,340	919
May.....	25,716	12,976	17,989	11,083	2,364	919
August.....	26,088	13,039	17,857	11,035	2,368	936
November.....	25,423	12,907	18,074	11,205	2,348	922
Cost of materials, fuel, electricity and contract work, total.....\$1,000..	448,923	291,414	271,478	160,017	34,655	13,654
Materials, parts, containers, and supplies consumed.....do.	442,568	286,355	266,217	157,877	33,849	13,370
Fuels consumed, total.....do.	4,211	3,564	2,161	949	389	179
Bituminous coal and anthracite:						
Quantity.....1,000 short tons..	178	(NA)	24	(NA)	7	(NA)
Value.....\$1,000..	1,383	(NA)	252	(NA)	75	(NA)
Coke:						
Quantity.....1,000 short tons..	...	...	...	...	( <sup>3</sup> )	(NA)
Value.....\$1,000..	...	...	...	...	6	(NA)
Fuel oil:						
Quantity.....1,000 barrels..	664	(NA)	152	(NA)	67	(NA)
Value.....\$1,000..	1,829	(NA)	631	(NA)	204	(NA)
Gas:						
Quantity.....million cubic feet..	3,427	(NA)	1,672	(NA)	243	(NA)
Value.....\$1,000..	792	(NA)	693	(NA)	85	(NA)
Other fuels:						
Value.....do.	207	(NA)	585	(NA)	19	(NA)
Electric energy:						
Purchased:						
Quantity.....million kwh..	154	108	100	45	12	3
Cost.....\$1,000..	1,992	1,376	1,454	699	220	75
Generated.....million kwh..	94	55	...	...	( <sup>4</sup> )	...
Sold:						
Quantity.....do.	6	6	...	...	...	...
Value.....\$1,000..	66	66	...	...	...	...
Cost of contract work.....do.	152	119	1,646	492	197	30
Manufacturers' inventories:						
Beginning of year, total.....do.	125,671	77,466	60,364	38,616	7,827	2,397
Finished products.....do.	52,808	29,753	28,933	18,949	3,159	734
Work-in-process.....do.	24,464	20,491	3,559	2,201	( <sup>5</sup> )	( <sup>5</sup> )
Materials, supplies, fuel, etc.....do.	48,399	27,222	27,872	17,466	4,237	1,499
End of year, total.....do.	120,012	73,280	58,767	36,363	9,058	2,239
Finished products.....do.	55,049	33,481	26,991	16,671	4,403	692
Work-in-process.....do.	17,993	13,974	4,088	2,507	( <sup>5</sup> )	( <sup>5</sup> )
Materials, supplies, fuel, etc.....do.	46,970	25,825	27,688	17,185	4,181	1,325
Expenditures for plant and equipment, total.....do.	13,394	3,826	12,899	6,437	1,644	751
Capital expenditures, new.....do.	13,358	3,800	12,711	6,370	1,578	697
New structures and additions to plant.....do.	3,902	( <sup>5</sup> )	3,905	2,523	( <sup>5</sup> )	( <sup>5</sup> )
New machinery and equipment.....do.	9,456	3,416	8,806	3,847	1,151	( <sup>5</sup> )
Expenditures for used plant and equipment.....do.	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )	( <sup>5</sup> )
Horsepower rating of power equipment at end of 1954:						
Horsepower of prime movers and electric motors driven by purchased energy, total.....1,000 hp..	155	108	55	25	12	3
Engines, etc., driving electric generators.....do.	37	24	1	( <sup>6</sup> )	( <sup>6</sup> )	( <sup>6</sup> )
Engines, etc., not driving electric generators.....do.	17	15	2	2	1	( <sup>6</sup> )
Electric motors driven by purchased energy.....do.	101	69	52	23	11	3
Electric motors driven by energy generated at the establishment.....do.	62	38	...	...	1	...

Note: Detailed figures may not add to the totals because of independent rounding. xxx Not applicable. NA Not available. <sup>1</sup>The specialization ratio compares the given industry's shipments of its primary products to its total shipments of all products. (The primary products are listed in Tables 5B and 6A.) <sup>2</sup>The coverage ratio measures the extent to which the total shipments of products primary to the given industry are shipped by establishments classified in that industry. <sup>3</sup>Less than 500 tons. <sup>4</sup>Less than 500 thousand kwh. <sup>5</sup>Less than \$500 thousand. <sup>6</sup>Less than 500 hp.

## MANUFACTURES--INDUSTRY STATISTICS

Table 4.--SELECTED STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR THE UNITED STATES: 1954

(Value figures in thousands of dollars. For explanation of line captions see Introduction. Data which cannot be shown without disclosing information for individual companies have been combined with figures for other size classes. A (D) appears in the column where the figure has been omitted and the combined figure is underlined and shown in the size-class to the left)

Ind. code	Industry and item	Total, all establishments	Establishments with an average of--									
			1-4 employees	5-9 employees	10-19 employees	20-49 employees	50-99 employees	100-249 employees	250-499 employees	500-999 employees	1,000-2,499 employees	2,500 employees and over
2841	Soap and glycerin:											
	Number of establishments...	289	121	45	35	31	20	10	14	8	4	1
	Number of employees.....	25,839	264	325	481	981	1,475	1,738	5,070	5,707	9,796	(D)
	Value added by manufacture.	510,756	1,632	2,455	3,028	8,230	11,053	19,412	150,100	133,075	<u>181,767</u>	(D)
2842	Cleaning & polishing products:											
	Number of establishments...	1,151	625	203	150	98	42	25	7	1	...	...
	Number of employees.....	18,026	1,445	1,430	2,154	3,099	2,900	3,883	<u>3,112</u>	(D)	...	...
	Value added by manufacture.	288,590	9,810	12,368	24,952	32,765	40,465	74,482	<u>93,745</u>	(D)	...	...
2843	Sulfonated oils & assistants:											
	Number of establishments...	103	31	21	20	20	7	3	1	...	...	...
	Number of employees.....	2,355	82	133	296	601	<u>1,240</u>	(D)	(D)	...	...	...
	Value added by manufacture.	28,322	778	1,153	3,031	7,062	<u>16,296</u>	(D)	(D)	...	...	...

Note: Detailed figures may not add to the totals because of independent rounding.

Table 5A.--INDUSTRY-PRODUCT ANALYSIS--SUMMARY OF INDUSTRY AND PRIMARY PRODUCT SHIPMENTS, SPECIALIZATION RATIOS AND COVERAGE RATIOS FOR THE UNITED STATES: 1954 AND 1947

Industry code	Industry and census year	Value of shipments					Value of primary products shipped			
		Total	Primary products	Secondary products	Miscel- laneous receipts	Primary product speciali- zation ratio <sup>1</sup>  Col. B Col. B+C (Percent)	Total (made in all industries)	Made in this industry	Made in other industries	Coverage ratio <sup>2</sup>  Col. G Col. F (Percent)
(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(E)	(F)	(G)	(H)	(I)		
(A)	(B)	(C)	(D)							
2841	Soap and glycerin.....1954.. 1947..	959,679 1,084,032	801,752 875,166	156,763 201,087	1,164 7,779	84 81	<sup>3</sup> 1,077,760 956,499	801,752 875,166	276,008 81,333	<sup>3</sup> 74 91
2842	Cleaning and polishing preparations.....1954.. 1947..	560,059 264,610	447,086 181,704	110,017 77,326	2,956 5,580	80 70	997,899 350,651	447,086 181,704	550,813 168,947	45 52
2843	Sulfonated oils and assistants.....1954.. 1947..	62,977 52,075	46,580 39,969	16,368 12,103	29 3	74 77	59,516 52,279	46,580 39,969	12,936 12,310	78 76

<sup>1</sup>The specialization ratio compares the given industry's shipments of its primary products to its total shipments of all products. (The primary products are listed in Tables 5B and 6A; the first 4-digits of the product code represent the industry code to which the product is primary.)

<sup>2</sup>The coverage ratio measures the extent to which the total shipments of products primary to the given industry are shipped by establishments classified in that industry.

<sup>3</sup>This total includes \$480,841 thousand for soap and glycerin (product classes 28411 through 28414) and \$596,919 thousand for synthetic detergents (product classes 28421 and 28422). (See text.) These detergents have been included in the calculation of the coverage ratio; if they are excluded from the calculation the ratio becomes 82 percent.

**SOAP, GLYCERIN; CLEANING, POLISHING, AND RELATED PRODUCTS**

28D-9

**Table 5B.--INDUSTRY-PRODUCT ANALYSIS--SHIPMENTS BY PRODUCT CLASS AND INDUSTRY, FOR THE UNITED STATES: 1954**

(In thousands of dollars. Each column shows for the industry listed in the column heading, the value of shipments divided between soap, glycerin, cleaning, polishing, and related preparations, other products, and miscellaneous receipts. Each figure represents the amount of the product class shown at the left shipped by the industry listed at the top of the column. The first four digits of the product class codes at the left represent the codes of the industries to which they are primary. (However, product classes 28421 and 28422 are primary both to Industry 2841 and Industry 2842.) All other products in a column represent products secondary to the specified industry)

Prod. class code	Class of products and miscellaneous receipts	Soap and glycerin (S.I.C. 2841)	Cleaning and polishing products (S.I.C. 2842)	Sulfonated oils and assistants (S.I.C. 2843)	Toilet preparations (S.I.C. 2893)	Chemical products, n.e.c. (S.I.C. 2899)	Other industries	All industries
	Total shipments and receipts of the industry.....	959,679	560,059	62,977	xxx	xxx	xxx	xxx
284-	Soap, glycerin, cleaning, polishing and related products.	1,843,928	1,474,889	148,728	27,701	24,323	118,687	1,538,256
28411	Soaps, except specialty, packaged.....	281,459	12,378	...	13,981	899	684	309,401
28412	Soaps, except specialty, bulk.....	37,862	6,392	387	...	2,891	1,489	49,021
28413	Specialty soaps.....	21,203	6,403	...	12,589	1,400	1,354	42,949
28414	Glycerin.....	50,443	(D)	...	(D)	...	23,746	75,810
28410	Soap and glycerin, not specified by kind.....	2,221	1,095	...	...	18	326	3,660
28421	Synthetic organic detergents, packaged.....	398,449	99,093	544	(D)	(D)	5,700	504,144
28422	Synthetic organic detergents, bulk.....	10,115	49,386	496	(D)	(D)	23,216	92,775
28423	Specialty detergents.....	21,235	61,144	109	130	4,322	4,237	91,177
28424	Polishing preparations and related products.....	6,269	184,757	468	...	10,349	323,712	225,555
28425	Alkaline detergents.....	13,691	41,482	(D)	(D)	2,546	13,583	71,372
28420	Cleaning and polishing products, not specified by kind	428	11,224	(D)	107	(D)	808	12,876
28430	Sulfonated oils and fats, and assistants.....	553	(D)	46,580	...	(D)	410,832	59,516
	Other products.....	114,587	82,214	14,220	xxx	xxx	xxx	xxx
28294	Other synthetic organic chemicals.....	...	5,248	1,101	xxx	xxx	xxx	xxx
28870	Fatty acids.....	2,505	( <sup>5</sup> )	( <sup>5</sup> )	xxx	xxx	xxx	xxx
2893-	Toilet preparations.....	99,925	2,106	xxx	xxx	xxx	xxx	xxx
28991	Household insecticides and repellants.....	298	6,308	...	xxx	xxx	xxx	xxx
28993	Chemical specialties.....	3,016	18,968	1,125	xxx	xxx	xxx	xxx
29921	Lubricating oils.....	...	2,214	...	xxx	xxx	xxx	xxx
	Other secondary products.....	8,843	47,370	11,994	xxx	xxx	xxx	xxx
	Miscellaneous receipts.....	1,164	2,956	29	xxx	xxx	xxx	xxx

xxx Not applicable.

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>As shown in Table 5A, the primary product total for Industry 2841 is \$801,752 thousand, or the sum of product classes 28411 through 28422; for Industry 2842, the total is \$447,086 thousand, or the sum of product classes 28420 through 28425; for Industry 2843, the total is \$46,580, or the value for product class 28430.

<sup>2</sup>Of this figure, \$17,779,000 shipped by establishments classified in Industry 2829, Organic Chemicals, N.E.C., and \$12,092,000 by establishments classified in Industry 2911, Petroleum Refinery.

<sup>3</sup>Of this figure, \$1,201,000 shipped by establishments classified in Industry 2829, Organic Chemicals, N.E.C.

<sup>4</sup>Of this figure, \$1,896,000 shipped by establishments classified in Industry 2822, Intermediates and Organic Colors, and \$2,031,000 by establishments classified in Industry 2829, Organic Chemicals, N.E.C.

<sup>5</sup>Included in other secondary products to avoid disclosure of figures for individual companies.



## MANUFACTURES—INDUSTRY STATISTICS

Table 6A.—QUANTITY AND VALUE OF PRODUCTS SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, FOR THE UNITED STATES: 1954 AND 1947

Product code	Product	Unit of quantity	1954		1947			
			Production for all purposes (quantity) <sup>1</sup>	Total shipments including interplant transfers		Production for all purposes (quantity)	Total shipments including interplant transfers	
				Quantity	Value		Quantity	Value
					(\$1,000)			(\$1,000)
2841---	Soap and glycerin, total.....		xxx	xxx	480,841	xxx	xxx	956,499
28411	Soaps, except specialty packaged <sup>1</sup> .....		xxx	xxx	309,401	xxx	xxx	705,888
	Bars (excluding mechanics hand soaps and shaving soaps):							
2841111	Toilet, including medical and medicated <sup>2</sup> ....	Thousand pounds..	520,852	512,384	144,248	565,617	<sup>3</sup> 561,081	<sup>3</sup> 190,968
	Laundry and household:							
2841113	White (made with not more than 10 percent resin).....	....do.....	190,564	189,733	32,970	406,561	407,694	87,418
2841115	Yellow (made with more than 10 percent resin).....	....do.....	97,267	97,664	10,666	358,329	356,281	43,524
2841119	Other (including industrial).....	....do.....	41,458	42,514	3,699	28,105	27,209	4,569
2841121	Chips and flakes.....	....do.....	74,186	74,916	22,008	227,961	230,720	67,224
2841123	Granulated, powdered and sprayed <sup>4</sup> .....	....do.....	368,733	366,003	78,277	1,412,458	1,391,116	279,994
2841125	Washing powder <sup>5</sup> .....	....do.....	12,489	12,465	1,005	84,839	80,478	5,909
2841127	Liquid (potash and other, excluding shampoos)..	Thousand gallons..	2,011	1,993	2,753	2,247	2,221	2,180
2841131	Paste and jelly (potash and other, excluding mechanics hand paste).....	Thousand pounds..	10,144	9,694	1,339	12,931	12,043	1,680
2841141	Scouring cleansers containing abrasives, made with soap.....	....do.....	115,756	111,890	9,959	267,087	265,723	22,422
2841198	Other soaps.....	....do.....	9,883	9,835	1,055	xxx	xxx	( <sup>6</sup> )
2841100	Soaps, except specialty packaged, not specified by kind.....		xxx	xxx	1,422	xxx	xxx	( <sup>7</sup> )
28412	Soaps, except specialty, bulk <sup>8</sup> .....		xxx	xxx	49,021	xxx	xxx	101,781
2841211	Chips and flakes.....	Thousand pounds..	121,912	124,215	12,550	195,106	195,934	39,576
2841223	Granulated, powdered, and sprayed <sup>4</sup> .....	....do.....	130,166	133,023	12,926	133,989	131,679	21,449
2841225	Washing powder <sup>5</sup> .....	....do.....	37,981	35,679	2,765	106,318	103,859	6,258
2841227	Liquid (potash and other, excluding shampoos)..	Thousand gallons..	11,640	11,588	12,142	14,454	14,247	10,447
2841231	Paste and jelly (potash and other, excluding mechanics hand paste).....	Thousand pounds..	36,370	35,428	3,299	33,015	31,825	4,557
2841241	Scouring cleansers containing abrasives, made with soap.....	....do.....	10,955	10,834	979	77,185	77,109	6,253
2841298	Other soaps.....	....do.....	xxx	xxx	1,179	xxx	xxx	<sup>9</sup> 13,241
2841200	Soaps, except specialty, bulk, not specified by kind.....		xxx	xxx	3,181	xxx	xxx	( <sup>7</sup> )
28413	Specialty soaps.....		xxx	xxx	42,949	xxx	xxx	26,841
2841311	Mechanics hand soaps and pastes, made with soap	Thousand pounds..	62,308	60,945	12,745	xxx	50,445	6,384
	Shaving preparations, soap or soap base: <sup>21</sup>							
	Lather cream:							
2841331	Tube and jar.....	....do.....	5,395	5,532	6,799	9,314	(NA)	<sup>9</sup> 10,027
2841335	Aerosols.....	....do.....	18,836	18,167	17,434	(NA)	(NA)	(NA)
2841341	Stick, powder, or cake.....	....do.....	4,199	4,239	2,916	6,348	(NA)	5,405
2841398	Other specialty soaps.....		...	...	...	(NA)	(NA)	5,025
2841300	Specialty soaps, not specified by kind.....		xxx	xxx	3,055	xxx	xxx	( <sup>7</sup> )
28414	Glycerin.....		xxx	xxx	75,810	xxx	xxx	88,576
2841411	Crude 100 percent basis.....	Thousand pounds..	210,012	58,496	14,199	206,186	40,997	16,222
2841431	High-gravity, dynamite, and yellow distilled, 100 percent basis.....	....do.....	60,516	60,435	18,179	86,943	81,588	34,211
2841451	Chemically pure, 100 percent basis.....	....do.....	151,105	145,956	43,432	103,900	92,220	38,143
2841000	Soap products, not specified by kind.....		xxx	xxx	3,660	xxx	xxx	<sup>7</sup> 33,413
2842---	Cleaning and polishing preparations, total.....		xxx	xxx	997,899	xxx	xxx	350,651
28421	Synthetic organic detergents, packaged <sup>1</sup> .....		xxx	xxx	504,144	xxx	xxx	93,242
	Synthetic organic detergents (not in combination with soap but including combinations with inorganic alkaline detergents):							
2842111	Liquid.....	Thousand gallons..	8,725	8,809	35,670	935	954	1,123
2842113	Bars.....	Thousand pounds..	<sup>10</sup> 3,748	<sup>10</sup> 3,392	<sup>10</sup> 2,082			
2842115	Granulated, powdered, sprayed, chips, and flakes <sup>11</sup> .....	....do.....	2,145,509	2,120,909	430,067	267,282	264,928	91,349
2842117	Washing powders <sup>12</sup> .....	....do.....	5,014	5,021	1,026			
2842119	Paste and jelly.....	....do.....	( <sup>10</sup> )	( <sup>10</sup> )	( <sup>10</sup> )			

See footnotes at end of table.

## SOAP, GLYCERIN; CLEANING, POLISHING, AND RELATED PRODUCTS

28D-11

Table 6A.—QUANTITY AND VALUE OF PRODUCTS SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, FOR THE UNITED STATES: 1954 AND 1947—Continued

Product code	Product	Unit of quantity	1954		1947	
			Production for all purposes (quantity)	Total shipments including interplant transfers	Production for all purposes (quantity)	Total shipments including interplant transfers
				Quantity Value (\$1,000)		Quantity Value (\$1,000)
2842---	Cleaning and polishing preparations—Continued					
28421	Synthetic organic detergents, packaged <sup>1</sup> —Continued					
	Synthetic organic detergents in combination with soap:					
2842131	Liquid.....	Thousand gallons..	331	159	194	397
2842133	Bars.....	Thousand pounds..	(10)	(10)	(10)	397
2842135	Granulated, powdered, sprayed, chips, and flakes <sup>11</sup> .....	.....do.....	10,620	9,495	1,457	(13)
2842137	Paste or jelly.....	.....do.....	(10)	(10)	(10)	(13)
2842151	Scouring cleansers containing abrasives made with synthetic organic detergents.....	.....do.....	304,770	289,075	31,231	(NA)
2842100	Synthetic organic detergents, packaged, not specified by kind.....	.....do.....	xxx	xxx	2,417	xxx
28422	Synthetic organic detergents, bulk <sup>8</sup> .....	.....do.....	xxx	xxx	92,775	xxx
	Synthetic organic detergents (not in combination with soap but including combinations with inorganic alkaline detergents):					
2842211	Liquid.....	Thousand gallons..	5,678	5,704	9,184	4,921
2842213	Bars.....	Thousand pounds..	5,850	5,828	907	4,825
2842215	Granulated, powdered, sprayed, chips, and flakes <sup>11</sup> .....	.....do.....	126,163	117,994	17,624	73,841
2842217	Washing powders <sup>12</sup> .....	.....do.....	23,863	23,304	3,047	67,949
2842219	Paste and jelly.....	.....do.....	(15)	(15)	(15)	7,660
	Synthetic organic detergents in combination with soap:					
2842231	Liquid.....	Thousand gallons..	1,801	1,784	3,433	1,040
2842233	Bars.....	Thousand pounds..	708	708	105	1,021
2842235	Granulated, powdered, sprayed, chips, and flakes <sup>11</sup> .....	.....do.....	3,960	3,882	524	13,304
2842237	Paste or jelly.....	.....do.....	15,070	15,226	15,012	13,296
	Scouring cleansers, containing abrasives made with:					
2842251	Synthetic organic detergents.....	.....do.....	6,160	5,910	522	(NA)
2842255	Others (including combination soap and S.O.D.).....	.....do.....	653	652	118	(NA)
2842271	Bulk surface active agents, other than sulfonated oils and fats, primarily for detergent purpose.....	.....do.....	xxx	xxx	51,616	xxx
2842200	Synthetic organic detergents, bulk, not specified by kind.....	.....do.....	xxx	xxx	3,683	xxx
28423	Specialty detergents.....	.....do.....	xxx	xxx	91,177	xxx
2842311	Glass window cleaning liquids.....	Thousand gallons..	3,294	3,150	6,926	xxx
2842321	Oil and dust absorbents, including sweeping compounds.....	Thousand pounds..	63,687	62,882	2,887	16,655
2842331	Toilet bowl cleaner and drain pipe solvents.....	.....do.....	124,266	104,169	15,985	75,351
2842341	Wall paper, window shade and wall cleaner.....	.....do.....	83,396	86,967	16,155	64,645
	Paint and varnish removers:					
2842351	Methylchloride type.....	.....do.....	xxx	xxx	4,864	(17)
2842355	Other types.....	.....do.....	xxx	xxx	3,681	(18)
	Brush cleaners:					
2842361	Powder.....	Thousand pounds..	687	687	182	182,297
2842365	Liquid.....	Thousand gallons..	482	485	848	173,765
2843465	Mechanics hand soaps and pastes made with:					
2842371	Synthetic organic detergent.....	Thousand pounds..	4,260	4,119	977	(NA)
2842375	Other including combination.....	.....do.....	28,594	28,358	4,856	(NA)
2842381	Dry cleaning spotting preparations (liquids)...	Thousand gallons..	4,270	4,264	8,174	6,755
2842385	Rug cleaners (including upholstery cleaners)...	Thousand pounds..	2,199	2,184	1,001	(NA)
2842398	Other specialty detergents.....	.....do.....	xxx	xxx	15,224	xxx
2842300	Specialty detergents, not specified by kind....	.....do.....	xxx	xxx	9,417	xxx
28424	Polishing preparations and related products.....	.....do.....	xxx	xxx	225,555	xxx
2842411	Automobile body polish and cleaners.....	Thousand pounds..	48,929	47,688	22,152	23,654
2842415	Furniture polishes and cleaners.....	.....do.....	32,525	32,136	17,129	23,753
	Floor polish:					
2842421	Water emulsion.....	Thousand gallons..	37,902	37,404	69,030	20,742
2842423	Liquid (other than water emulsion).....	.....do.....	10,248	10,292	18,071	1,977
2842425	Paste and cake.....	Thousand pounds..	22,220	22,180	6,643	18,364
2842429	Other.....	.....do.....	7,621	7,622	1,899	2,393

See footnotes at end of table.

Table 6A.—QUANTITY AND VALUE OF PRODUCTS SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, FOR THE UNITED STATES: 1954 AND 1947—Continued

Product code	Product	Unit of quantity	1954			1947		
			Production for all purposes (quantity)	Total shipments including interplant transfers		Production for all purposes (quantity)	Total shipments including interplant transfers	
				Quantity	Value (\$1,000)		Quantity	Value (\$1,000)
2842---	Cleaning and polishing preparations—Continued							
28424	Polishing preparations and related products—Continued							
2842435	Metal polish (excluding stove polish).....	Thousand pounds..	2,505	25,005	6,421	17,367	17,156	3,829
	Shoe polishes and cleaners:							
	White:							
2842441	Liquid.....	Thousand gallons.	1,383	1,378	7,733	1,819	1,553	3,549
2842443	Paste.....	Thousand pounds..	763	751	622	2,247	2,364	1,478
	Other than white:							
2842445	Liquid.....	Thousand gallons.	1,782	1,783	9,429	2,263	2,309	6,341
2842447	Paste.....	Thousand pounds..	11,362	11,073	10,637	8,658	8,583	5,064
2842451	Chemically treated cleaning and polishing cloths and papers.....	.....	xxx	xxx	4,404	xxx	xxx	(19)
	Leather dressings and finishes (excluding shoe polish):							
2842461	Leather blackings and stains.....	Thousand pounds..	22,331	21,919	6,428	6,252	6,254	2,129
2842465	Other leather dressings and finishes.....	....do.....	37,148	36,486	10,960	36,408	36,998	9,721
2842471	Dressing, excluding leather (auto top, etc.)..	....do.....	4,636	4,556	2,201	2,617	2,314	933
2842498	Other polishing preparations and related products, n.e.c.....	.....	xxx	xxx	19,163	xxx	xxx	1915,306
2842400	Polishing preparations and related products, not specified by kind.....	.....	xxx	xxx	12,633	xxx	xxx	(14)
28425	Alkaline detergents (mixture containing sodium and/or phosphatic compounds).....	.....	xxx	xxx	71,372	xxx	xxx	36,488
	Liquid preparations:							
2842511	Packaged <sup>1</sup> .....	Thousand gallons.	898	936	620	(NA)	(NA)	403
2842515	Bulk <sup>2</sup> .....	....do.....	9,081	8,478	5,377	(NA)	(NA)	403
	Solid (including bars, flake, or powder):							
2842551	Packaged <sup>1</sup> .....	Thousand pounds..	142,867	143,332	21,874	96,030	94,789	9,923
2842555	Bulk <sup>2</sup> .....	....do.....	452,709	430,138	40,687	297,090	295,089	25,759
2842500	Alkaline detergents (mixture containing sodium and/or phosphatic compounds), not specified by kind.....	.....	xxx	xxx	2,814	xxx	xxx	(14)
2842000	Cleaning and polishing preparations, not specified by kind.....	.....	xxx	xxx	12,876	xxx	xxx	1425,551
2843---	Sulfonated oils and assistants, total.....	.....	xxx	xxx	59,516	xxx	xxx	52,279
	Assistants and finishes, textile and leather:							
2843011	Sulfonated oils and fats.....	Thousand pounds..	139,951	134,964	23,852	(NA)	84,604	16,991
2843031	Softeners, soluble oils and greases.....	....do.....	101,806	91,157	16,386	(NA)	82,035	16,007
2843051	Other assistants <sup>3</sup> .....	....do.....	47,725	47,543	7,710	xxx	xxx	17,459
2843071	Finishes.....	....do.....	36,055	35,622	8,317			
2843000	Sulfonated oils and assistants, not specified by kind.....	.....	xxx	xxx	3,251	xxx	xxx	1,822

xxx Not applicable.

NA Not available.

<sup>1</sup>Packaged soaps and detergents are limited to products packed in individual containers of less than 25 pounds; and for liquids, when in individual containers of less than 1 gallon.<sup>2</sup>Bars weighing less than 2 pounds.<sup>3</sup>Includes 5,630 thousand pounds of medical and medicated soap, valued at \$3,144 thousand reported and published separately in 1947.<sup>4</sup>Containing more than 25 percent anhydrous soap.<sup>5</sup>Containing 25 percent or less anhydrous soap.<sup>6</sup>Code 2841198 combined with code 2841298, "Other soaps," bulk.<sup>7</sup>Codes 2841100, 2841200, and 2841300 combined with code 2841000, "Soap products, not specified by kind."<sup>8</sup>Bulk soaps and detergents are limited to products packed in individual containers of 25 or more pounds; and for liquids, when in individual containers of 1 gallon or more.<sup>9</sup>Code 2841298 excludes \$1,505 thousand reclassified as shaving creams, tube and jar, included in code 2841331.<sup>10</sup>Codes 2842119, 2842133, and 2842137 combined with code 2842113, "Synthetic organic detergents, bars."<sup>11</sup>Containing 10 percent or more synthetic organic surface active agents.<sup>12</sup>Containing less than 10 percent synthetic organic surface active agents.<sup>13</sup>Codes 2842133-2842137 combined with codes 2842233-2842237.<sup>14</sup>Codes 2842100, 2842200, 2842300, 2842400, and 2842500 combined with code 2842000, "Cleaning and polishing preparations, not specified by kind."<sup>15</sup>Code 2842219 combined with code 2842237, "Paste and jelly synthetic organic detergents in combination with soap."<sup>16</sup>1947 quantity published in pounds converted to gallons on the basis of 8 pound equivalent to 1 gallon.<sup>17</sup>Code 2842351 not reported separately in 1947 but included with code 2842365, "Liquid brush cleaners."<sup>18</sup>Code 2842355 not reported separately in 1947 but included with code 2842361, "Powder brush cleaners."<sup>19</sup>Code 2842451 combined with code 2842498, "Other polishing preparations and related products, n.e.c."<sup>20</sup>Includes figures for egg yolk, wetting agents, waterproofing emulsions, mordants other than tannic acid and an undetermined quantity of sizes, soaps, and synthetic detergents.<sup>21</sup>Shaving preparations containing no soap (brushless) are classified as primary to Industry 2893, Toilet Preparations. The 1954 shipments for these preparations in tubes amounted to \$6,783 thousand and in jars \$1,466 thousand. The comparable 1947 figures are \$7,048 thousand and \$2,924 thousand thousand, respectively.



## SOAP, GLYCERIN; CLEANING, POLISHING, AND RELATED PRODUCTS

28D-13

Table 6B.—VALUE OF PRODUCT CLASSES SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, BY DIVISIONS AND STATES FOR 1954, AND UNITED STATES TOTALS FOR EARLIER YEARS

(In thousands of dollars. Statistics are shown for selected product classes which are economically significant and production of which is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (Table 2) and they are not miscellaneous or "not specified by type" classes. For each product class, States are listed only if the value of shipments is more than \$1 million and the figure does not disclose individual company information. Additional States which had shipments of more than \$1 million of the individual product classes are listed in footnote 1)

Product class, region, and State <sup>1</sup>	Value of shipments	Product class, region, and State <sup>1</sup>	Value of shipments	Product class, region, and State <sup>1</sup>	Value of shipments
<u>Soaps, except specialty, packaged (28411)</u>		<u>Specialty soaps (28413)—Continued</u>		<u>Synthetic organic detergents, bulk (28422)—Continued</u>	
1954 United States, total.....	309,401	East North Central.....	14,926	East North Central.....	35,540
1947 United States, total.....	705,888	Ohio.....	2,054	Ohio.....	3,741
1954		Indiana.....	7,279	Indiana.....	1,332
New England.....	30,734	Illinois.....	4,377	Illinois.....	16,493
Massachusetts.....	29,143	West North Central.....	6,331	Michigan.....	13,602
Middle Atlantic.....	77,486	Missouri.....	4,075	West North Central.....	7,855
New York.....	34,796	Kansas.....	1,468	Missouri.....	6,717
New Jersey.....	26,437	South.....	1,352		
Pennsylvania.....	16,253	West.....	2,451		
East North Central.....	110,041			South Atlantic.....	3,147
Illinois.....	38,263	<u>Glycerin (28414)</u>		East South Central.....	254
West North Central.....	19,315	1954 United States, total.....	75,810	West South Central.....	1,214
South.....	39,226	1947 United States, total.....	88,576	West.....	11,760
Texas.....	6,253	1954		<u>Specialty detergents (28423)</u>	
West.....	32,598	New England.....	3,808	1954 United States, total.....	91,177
California.....	31,384	Middle Atlantic.....	15,708	1947 United States, total.....	43,697
<u>Soaps, except specialty, bulk (28412)</u>		New Jersey.....	8,512	1954	
1954 United States, total.....	49,021	North Central.....	26,990	New England.....	5,979
1947 United States, total.....	101,781	Ohio.....	12,278	Massachusetts.....	2,776
1954		Illinois.....	7,063	Middle Atlantic.....	21,310
New England.....	4,117	South.....	23,008	New York.....	8,202
Middle Atlantic.....	13,486	West.....	6,296	New Jersey.....	9,152
New York.....	5,690	<u>Synthetic organic detergents, packaged (28421)</u>		Pennsylvania.....	3,955
New Jersey.....	5,229	1954 United States, total.....	504,144	East North Central.....	42,051
Pennsylvania.....	2,567	1947 United States, total.....	93,242	Ohio.....	24,145
East North Central.....	17,692	1954		Indiana.....	1,444
Ohio.....	4,638	New England.....	21,098	Illinois.....	11,269
Indiana.....	2,397	Middle Atlantic.....	99,773	Michigan.....	4,382
Illinois.....	9,684	New York.....	29,794	West North Central.....	3,059
West North Central.....	3,765	New Jersey.....	68,824	Missouri.....	1,849
Missouri.....	2,386	Pennsylvania.....	1,154	South Atlantic.....	3,565
South Atlantic.....	2,730	East North Central.....	183,406	Maryland.....	1,759
Georgia.....	1,659	West North Central.....	80,745	East South Central.....	1,382
East South Central.....	425	South and West.....	119,122	West South Central.....	1,495
West South Central.....	2,801	<u>Synthetic organic detergents, bulk (28422)</u>		Texas.....	1,257
Texas.....	2,698	1954 United States, total.....	92,775	Mountain.....	300
West.....	4,005	1947 United States, total.....	41,526	Pacific.....	12,035
<u>Specialty soaps (28413)</u>		1954		California.....	11,805
1954 United States, total.....	42,949	New England.....	4,667	<u>Polishing preparations and related products (28424)</u>	
1947 United States, total.....	26,841	Massachusetts.....	1,285	1954 United States, total.....	225,555
1954		Rhode Island.....	3,013	1947 United States, total.....	110,147
New England.....	4,357	Middle Atlantic.....	28,338	1954	
Middle Atlantic.....	13,531	New York.....	5,342	New England.....	25,423
New York.....	2,371	New Jersey.....	14,117	Massachusetts.....	23,600
New Jersey.....	10,839	Pennsylvania.....	8,876	Middle Atlantic.....	63,738
				New York.....	35,646
				New Jersey.....	17,350
				Pennsylvania.....	10,742

See footnotes at end of table.



## MANUFACTURES—INDUSTRY STATISTICS

Table 6B.—VALUE OF PRODUCT CLASSES SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, BY DIVISIONS AND STATES FOR 1954, AND UNITED STATES TOTALS FOR EARLIER YEARS—Continued

Product class, region, and State <sup>1</sup>	Value of shipments	Product class, region, and State <sup>1</sup>	Value of shipments	Product class, region, and State <sup>1</sup>	Value of shipments
<u>Polishing preparations and related products (28424)—Continued</u>		<u>Alkaline detergents (28425)</u>		<u>Sulfonated oils and fats, and assistants (28430)</u>	
East North Central.....	104,883	1954 United States, total.....	71,372	1954 United States, total.....	59,516
Indiana.....	8,072	1947 United States, total.....	36,488	1947 United States, total.....	52,279
Illinois.....	33,202	1954			
Michigan.....	7,482	New England.....	1,457	1954	
West North Central.....	7,852	Middle Atlantic.....	28,969	New England.....	6,688
Minnesota.....	1,096	New York.....	13,977	Massachusetts.....	5,472
Missouri.....	6,130	New Jersey.....	11,306	Middle Atlantic.....	34,097
South.....	14,402	Pennsylvania.....	3,686	New York.....	2,291
Maryland.....	3,091	East North Central.....	27,367	New Jersey.....	21,428
Georgia.....	2,374	Ohio.....	6,416	Pennsylvania.....	10,377
Texas.....	2,825	Illinois.....	10,539	North Central.....	5,912
Mountain.....	1,084	Michigan.....	9,388	South.....	12,571
Colorado.....	1,060	West North Central.....	1,449	North Carolina.....	3,099
Pacific.....	8,173	South.....	2,351	South Carolina.....	1,247
California.....	7,879	West.....	9,779	Pacific.....	248
		California.....	9,504		

<sup>1</sup>For the specified product classes, shipments of over \$1 million were reported for the States listed but the exact figures are withheld to avoid disclosure of individual company figures: 28411, Connecticut, Ohio, Indiana, Missouri, Nebraska, Maryland, Kansas, and Oregon; 28412, Massachusetts, and California; 28413, Massachusetts, Connecticut, Michigan, and California; 28414, Massachusetts, New York, Indiana, Kansas, Maryland, Texas, and California; 28421, Massachusetts, Ohio, Indiana, Illinois, Michigan, Missouri, Kansas, Maryland, Texas, and California; 28422, West Virginia and California; 28423, Vermont, Connecticut, and Tennessee; 28424, Connecticut, Ohio, and Tennessee; 28430, Rhode Island, Ohio, Illinois, Georgia, and Tennessee.

Table 7.—MATERIALS CONSUMED, BY KIND: 1954

Code	Description of materials	Basis	Unit of measure	Quantity	Delivered cost (\$1,000)
INDUSTRY 2841--SOAP AND GLYCERIN					
	Materials, containers and supplies, total.....			xxx	442,568
284151	Soap.....		Short ton.....	7,790	1,490
281231	Sodium carbonate (soda ash).....	100% Na <sub>2</sub> CO <sub>3</sub> .....	.....do.....	53,188	1,992
281221	Sodium hydroxide (caustic soda).....	100% NaOH.....	.....do.....	159,276	10,061
281955	Sodium tripolyphosphate.....	100% Na <sub>3</sub> P <sub>3</sub> O <sub>10</sub> .....	.....do.....	387,365	63,294
281951	Tetrasodium pyrophosphate.....	100% Na <sub>4</sub> P <sub>2</sub> O <sub>7</sub> .....	.....do.....	30,780	4,800
281945	Trisodium phosphate.....			(NA)	1,659
284211	Bulk surface active agents:				
	Primarily for detergent purposes.....		Thousand pounds...	79,930	12,303
282971	Other (emulsifiers, wetting agents, penetrants, etc.).....		.....do.....	5,335	1,567
970000	All other materials and components, containers, and supplies including materials, etc., unspecified by kind.....			xxx	345,402
INDUSTRY 2842--CLEANING AND POLISHING PRODUCTS					
	Materials, containers and supplies, total.....			xxx	266,217
284151	Soap.....		Short ton.....	14,893	3,048
281231	Sodium carbonate (soda ash).....	100% Na <sub>2</sub> CO <sub>3</sub> .....	.....do.....	202,903	5,995
281221	Sodium hydroxide (caustic soda).....	100% NaOH.....	.....do.....	62,728	4,563
281955	Sodium tripolyphosphate.....	100% Na <sub>3</sub> P <sub>3</sub> O <sub>10</sub> .....	.....do.....	38,989	6,405
281951	Tetrasodium pyrophosphate.....	100% Na <sub>4</sub> P <sub>2</sub> O <sub>7</sub> .....	.....do.....	30,642	4,780
281945	Trisodium phosphate.....			(NA)	1,972
284211	Bulk surface active agents:				
	Primarily for detergent purposes.....		Thousand pounds...	78,386	14,882
282971	Other (emulsifiers, wetting agents, penetrants, etc.).....		.....do.....	14,275	4,445
970000	All other materials and components, parts, containers, and supplies including materials, etc., unspecified by kind.....			xxx	220,127

xxx Not applicable.

NA Not available.

Table 8.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY INDUSTRY SPECIALIZATION AND PRIMARY PRODUCT CLASS SPECIALIZATION, FOR THE UNITED STATES: 1954

(This table presents selected statistics for establishments classified according to their degree of specialization in products primary to the industry. The establishments are classified in two ways: (1) by industry specialization—the degree of specialization in all primary products of the industry; and (2) by product-class specialization—the degree of specialization in the largest product class of the establishment. The degree of "industry specialization" for an establishment represents the ratio of its primary product shipments to its total product shipments, primary and secondary. The degree of "product-class specialization" for an establishment represents the ratio of its largest product class shipments to its total product shipments, primary and secondary. Data are not shown for some industries, product classes, and specialization ranges for a variety of reasons, consequently, detailed figures frequently do not add to the totals. See Introduction for detailed explanation.)

Ind. or product class No.	Industry or product class by percent of specialization	Estab- lish- ments, number	All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
2841	SOAP AND GLYCERIN (entire industry).....	289	25,839	127,817	15,668	29,259	68,303	510,756	448,923	959,679
	Establishments with:									
	90% or more specialization.....	197	13,071	64,412	8,737	17,010	38,220	311,015	291,414	602,429
	75-89% specialization.....	28	4,963	22,742	3,298	5,211	14,106	100,392	77,587	177,979
	50-74% specialization.....	35	6,210	32,604	3,118	6,022	14,313	86,227	67,235	153,463
	All other <sup>1</sup> .....	29	1,593	8,057	513	1,015	1,663	13,120	12,686	25,807
28411	Soaps, except specialty, packed: <sup>2</sup>									
	All establishments specializing in product class.	68	8,876	41,716	6,066	11,654	25,913	149,307	144,664	293,971
	Establishments with:									
	90% or more specialization.....	29	983	3,593	761	1,450	2,391	10,356	10,812	21,168
	75-89% specialization.....	10	1,214	5,316	906	1,651	3,661	13,272	11,631	24,903
	50-74% specialization.....	25	5,333	25,830	3,458	6,700	15,037	87,427	86,943	174,370
	Less than 50% specialization.....	4	1,346	6,976	939	1,852	4,824	38,250	35,277	73,528
28412	Soaps, except specialty, bulk: <sup>2</sup>									
	All establishments specializing in product class.	80	1,946	8,694	1,028	1,978	3,379	15,782	17,685	33,467
	Establishments with:									
	90% or more specialization.....	26	184	577	130	219	348	1,060	1,147	2,208
	75-89% specialization.....	10	169	837	107	202	353	1,389	1,342	2,732
	50-74% specialization.....	19	872	3,772	457	930	1,706	7,883	9,613	17,497
	Less than 50% specialization.....	25	720	3,507	332	626	970	5,448	5,581	11,030
28413	Specialty soap: <sup>2</sup>									
	All establishments specializing in product class.	56	826	5,339	271	563	816	11,082	6,617	17,699
	Establishments with:									
	90% or more specialization.....	39	239	866	136	256	353	1,681	1,889	3,570
2842	CLEANING AND POLISHING PREPARATIONS (entire industry)...	1,151	18,026	78,550	10,551	20,206	34,593	288,590	271,478	560,059
	Establishments with:									
	90% or more specialization.....	907	11,143	46,926	6,820	13,047	21,530	180,331	160,017	340,341
	75-89% specialization.....	76	1,316	6,076	633	1,121	1,899	10,766	12,073	22,840
	50-74% specialization.....	123	4,380	20,647	2,409	4,779	9,017	80,307	85,936	166,243
	All other <sup>1</sup> .....	45	1,186	4,900	687	1,258	2,146	17,185	13,450	30,635
28421	Synthetic organic detergents, packaged: <sup>3</sup>									
	All establishments specializing in product class.	36	897	4,110	645	1,263	2,675	27,828	35,403	63,232
	Establishments with:									
	90% or more specialization.....	23	758	3,563	551	1,087	2,425	26,707	34,207	60,914
28422	Synthetic organic detergents, bulk: <sup>3</sup>									
	All establishments specializing in product class.	92	1,543	8,363	913	2,026	3,934	20,826	29,980	50,807
	Establishments with:									
	90% or more specialization.....	46	361	1,979	206	455	823	6,011	7,443	13,454
	75-89% specialization.....	13	115	543	55	105	183	926	928	1,855
	50-74% specialization.....	23	813	4,159	457	921	1,844	11,811	15,348	27,160
	Less than 50% specialization.....	10	253	1,681	193	543	1,082	2,077	6,260	8,337
28423	Specialty detergents: <sup>3</sup>									
	All establishments specializing in product class.	232	2,813	12,064	1,575	2,766	4,456	33,505	26,905	60,411
	Establishments with:									
	90% or more specialization.....	158	1,195	4,528	767	1,413	2,289	16,727	12,865	29,592
	75-89% specialization.....	17	154	625	90	120	193	1,362	1,145	2,508
	50-74% specialization.....	30	569	2,624	309	588	880	7,531	5,867	13,399
	Less than 50% specialization.....	27	893	4,287	407	644	1,092	7,883	7,027	14,911
28424	Polishing preparations and related products:									
	All establishments specializing in product class.	401	7,792	32,061	4,511	8,606	13,724	120,269	94,281	214,551
	Establishments with:									
	90% or more specialization.....	303	5,027	20,679	3,005	5,796	9,075	83,783	66,374	150,157
	75-89% specialization.....	27	367	1,471	248	469	702	4,889	5,247	10,137
	50-74% specialization.....	47	1,175	4,719	607	1,191	1,793	7,629	7,969	15,599
	Less than 50% specialization.....	24	1,221	5,191	650	1,149	2,152	23,967	14,689	38,656
28425	Alkaline detergents:									
	All establishments specializing in product class.	110	2,536	12,152	1,384	2,521	4,932	60,895	61,713	122,609
	Establishments with:									
	90% or more specialization.....	43	348	1,537	210	295	484	4,393	3,705	8,099
	75-89% specialization.....	8	254	1,252	195	423	770	8,613	6,402	15,015
	50-74% specialization.....	33	1,151	5,769	595	1,074	2,360	40,847	43,686	84,534
	Less than 50% specialization.....	26	782	3,593	382	727	1,316	7,040	7,919	14,960

See footnotes at end of table.

## MANUFACTURES—INDUSTRY STATISTICS

TABLE 8.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY INDUSTRY SPECIALIZATION AND PRIMARY PRODUCT CLASS SPECIALIZATION, FOR THE UNITED STATES: 1954—Continued

Ind. or product class No.	Industry or product class by percent of specialization	Establishments, number	All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
2843	SULFONATED OILS AND ASSISTANTS (entire industry).....	103	2,355	13,044	1,352	2,507	4,729	28,322	34,655	62,977
	Establishments with:									
	90% or more specialization.....	64	924	5,362	510	931	1,747	11,251	13,654	24,905
	75-89% specialization.....	15	445	2,747	246	367	774	4,321	4,337	8,658
	50-74% specialization.....	16	417	1,835	265	546	893	5,598	7,856	13,455
	All other <sup>1</sup> .....	8	568	3,099	329	662	1,314	7,151	8,807	15,959

<sup>1</sup>This class includes data for establishments with less than 50 percent specialization in the primary products of the industry and establishments engaged exclusively in contract work defined in the industry. Miscellaneous small statistical adjustments are also included.

<sup>2</sup>By plants with soap kettles.

<sup>3</sup>By plants which have no soap kettles.



# Paints, Varnishes, Pigments, and Allied Products

This report shows 1954 Census of Manufactures statistics for establishments classified in each of the following industries:

Code	Title
2851--	Paints and Varnishes
2852--	Inorganic Color Pigments
2853--	Whiting and Fillers

This group includes establishments primarily engaged in the manufacturing of paints, enamels, varnishes, lacquers, dopes, inorganic color pigments, whiting, putties, caulking compounds, and allied paint products. Establishments primarily engaged in manufacturing organic color pigments are classified in Industry 2822, Intermediates and Organic Colors; bone black, carbon black, and lamp black in Industry 2895, Carbon Black; artists' oil and water colors in Industry 3954, Artists' Materials; synthetic resin used for protective coatings in Industry 2823, Plastics Materials; printing inks in Industry 2891, Printing Ink; turpentine in Industry Group 286, Gum and Wood Chemicals; and bituminous roof coatings in Industry 2952, Roofing Felts and Coatings.

2851--Paints and Varnishes (Full Standard Industrial Classification Title: Paints, Varnishes, Lacquers, Japans, and Enamels)

This industry comprises establishment primarily engaged in manufacturing paints (in paste form or mixed ready to use), varnishes, lacquers, japans, enamels, and shellac. Important products of this industry include water paints and calcimines (dry and paste); paints in paste form (white or red lead in oil, zinc oxide in oil, colors in oil or japan); ready-mixed and semi-paste paints (paints in oil, under-coatings and primers, wall paints, stains, and bituminous paints); varnishes and varnish stains; clear and pigmented lacquers; enamels; japans, shellac and dopes.

For a detailed list of primary products of Industry 2851, refer to Table 6A, product codes 2851111 to 2851298.

The value of shipments of Industry 2851, Paints and Varnishes, in 1954 totaled \$1,494 million. This included shipments of primary products (paints, varnishes, lacquers and enamels) valued at \$1,410 million, shipments of secondary products valued at \$80 million, and miscellaneous receipts (mainly contract and commission work on material owned by others) of \$4 million.

Receipts for merchandising (products bought and resold without further manufacture or processing) valued at \$85 million are excluded from the \$1,494 million value of shipments of Industry 2851. Data relating to these merchandising receipts are also excluded from the cost of materials and value added, but these activities are reflected in other detailed industry statistics, mainly employment and inventory.

Industry 2851 shipments of paints and varnishes in 1954 represented 95 percent of its total product shipments (primary and secondary). In 1947, this primary product specialization ratio was 94 percent. Secondary products shipped by Industry 2851 in 1954 consisted mainly of plastics materials, \$12 million; inorganic color pigments, \$9 million; whiting and fillers, \$15 million; chemical specialties, (such as stamp-pad inks and writing inks) \$8 million; gypsum products, \$5 million; glues and adhesives, \$5 million; printing ink, \$3 million; and bituminous roof coatings), \$3 million.

Shipments of paints and varnishes by plants classified in Industry 2851 in 1954 represented 97 percent of the paints and varnishes, valued at \$1,458 million, shipped by all industries. This coverage ratio in 1947 was 96 percent. Other plants shipping paints and varnishes in 1954 were classified mainly in Industry 2852, Inorganic Color Pigments, \$2 million; Industry 2822, Intermediates and Organic Colors, \$6 million; Industry 2891, Printing Ink, \$10 million.

The comparability of the 1954 product data with those for earlier years has been affected by the numerous revisions and rearrangements of products in the 1954 Census classifications. To overcome some of the limitations resulting from the introduction of the new classification, the 1954 and 1947 products have been regrouped, and data for the two years are also shown in Table 6A, Quantity and Value. While these regroupings provide comparable 1954 and 1947 statistics for many kinds of paints, varnishes and lacquers, the rearranged data for some products may not provide identical comparisons. For example, the figures for industrial maintenance coatings (product codes 2851211 and 2851213) are not listed under "Ready Mixed Paints" but under "Other Paints" because it is believed that these products were reported in this basket classification in 1947. Product-class data for earlier years are not shown in Table 6B, since the products could not be regrouped to achieve comparability at the product-class level.

The 1954 classifications established two product groups--trade products and industrial products. Trade products are "stock-type" commodities normally distributed through wholesale and retail channels. Industrial products are commodities made by special formulae to meet the specific conditions of application and use of certain manufactured articles, and are usually sold directly to the manufacturer for use in the general manufacturing process.

The terms "trade products" and "industrial products," used in this report refer to specific products, and monthly data for which are published, should be clearly distinguished from the terms "trade sales" and "industrial sales" in the Facts for Industry Series M19J, Paint, Varnish, and Lacquers. In the monthly series, the data refer to types of sales based on class of customer. For example, automotive finishes (industrial products) may be reported in the Facts for Industry survey both as industrial sales, when sold to the automobile manufacturer, and as trade sales, when sold for use in automobile paint shops. In the Census of Manufactures report, however, all shipments of automotive finishes are classified as industrial products.

The data reported on the 1954 Census of Manufactures reports are reconciled (see table below) with those appearing in the monthly Facts for Industry Series M19J by utilizing the data shown in Table 9, Distribution of Paint, Varnish, and Lacquers, by Product Class and Class of Customer. The 1954 figure for industrial products of \$703,789,000 appearing in Table 9 was adjusted downward to \$635,765,000 by deducting the totals shown for bleached shellac (code 2851267) and for other industrial product finishes (code 2851298) appear in Table 6A because these items are not covered in the Facts for Industry Survey M19J. By the application of the ratios obtained from Table 9, totals for industrial and trade sales were derived. The adjusted 1954 Census of Manufactures totals closely approximate those for trade sales and industrial sales shown in the Facts for Industry Series M19J and the differences are less than the standard errors applicable to the estimated totals published in the Facts for Industry Series M19J.

The various operations needed to manufacture paint are wholly mechanical (i.e., requiring physical not chemical change) although chemical processes are involved in the manufacture of the paint constituents, including the film-forming materials. On the other hand, lacquer formulation is very complex. While some of the larger plants manufacture some of the constituent raw materials including the synthetic resins and pigments, most of the plants are purchasers and are primarily engaged in the mixing operation. In addition, many plants may operate a "prescription-type" business, and so the industry is characterized by a relatively large number of small establishments. For example, of the 1469 establishments classified in this industry in 1954, 62 percent employed fewer than 20 employees and accounted for only 11 percent of the total employed. Many paint companies also operate their own retail outlets at locations different from the manufacturing plant. As indicated in



## MANUFACTURES—INDUSTRY STATISTICS

## TRADE AND INDUSTRIAL SALES

(In thousands of dollars)

Class of customer	Sales total	Industrial products		Trade products		Industrial sales, total	Trade sales, total
		Industrial sales (computed)	Trade sales (computed)	Industrial sales (computed)	Trade sales (computed)		
Facts for Industry (M19J) total..	1,360,884	xxx	xxx	xxx	xxx	522,966	837,918
Standard error <sup>1</sup> .....	42,000	xxx	xxx	xxx	xxx	22,300	32,700
Census of Manufacturers, total...	1,371,755	476,824	158,941	51,519	684,471	528,343	843,412
Shipments to retail stores of the same company.....	201,065	...	31,788	...	169,277	...	201,065
Transfers to other manufacturing plants of the same company.....	67,585	38,145	...	...	29,440	38,145	29,440
Shipments to wholesalers, etc.....	280,364	...	89,007	...	191,357	...	280,364
Shipments to retailers, etc.....	246,227	...	25,430	...	220,797	...	246,227
Shipments to industrial consumers....	457,406	413,247	...	44,159	...	457,406	...
Shipments to painting contractors....	42,156	...	12,716	...	29,440	...	42,156
Shipments to Federal government.....	12,716	12,716	...	...	...	12,716	...
Shipments to State and local government.....	13,718	6,358	...	7,360	...	13,718	...
Shipments to household consumers....	29,440	...	...	...	29,440	...	29,440
Shipments to buyers for foreign countries.....	21,078	6,358	...	...	14,720	6,358	14,720

<sup>1</sup>The standard errors indicate the differences that can be expected between the estimates and comparable complete canvass totals, because of sampling fluctuations.

Table 9, shipments through such channels accounted for approximately 23 percent of the total shipments for trade products.

Data showing the consumption of specified inorganic pigments appear in the *Minerals Year Book*, a publication of the U. S. Department of the Interior. Statistics for toners and lakes are available from the United States Tariff Commission's annual report, *Synthetic Organic Chemicals*. Quantities of specified oils consumed in paints and varnishes are compiled monthly by the Census Bureau and are published in the *Facts for Industry Series M17-2, Fats and Oils, Consumption by Uses*. Figures showing the quantities of specially denatured ethyl alcohol used as a solvent in lacquers, varnishes, and enamels are available from the United States Internal Revenue Service.

#### 2852--Inorganic Color Pigments

This industry comprises establishments primarily engaged in manufacturing dry colors and inorganic color pigments. Important products of this industry include black pigments such as black iron oxide, white pigments such as white lead and blanc fixe, and titanium pigments; color pigments, such as ultramarine and vermilion; and chrome, iron, and other dry colors. For a detailed list of primary products of Industry 2852, refer to Table 6A, product codes 2852111 to 2852398.

The value of shipments of Industry 2852, Inorganic Color Pigments, in 1954 totaled over \$371 million. This included shipments of primary products (inorganic color pigments) valued at \$325 million, shipments of secondary products valued at \$45 million, and miscellaneous receipts of \$2 million.

Industry 2852 shipments of inorganic color pigments in 1954 represented 88 percent of its total product shipments (primary and secondary). In 1947, this primary product specialization ratio was also 88 percent. Secondary products shipped by Industry 2852 in 1954 consisted mainly of sulfuric acid and other inorganic chemicals, \$24 million; synthetic organic pigments, lakes and toners, \$6 million; and chemical specialties, \$3 million.

Shipments of inorganic color pigments by plants classified in Industry 2852 in 1954 represented 88 percent of the inorganic color pigments, valued at \$370 million, shipped by all industries. This coverage ratio in 1947 was 84 percent. Other plants shipping inorganic color pigments in 1954 were classified mainly in Industry 2822, Intermediates and organic colors, \$16 million, and Industry 2851, Paints and Varnishes, \$9 million. Excluded from the \$370 million value of shipments of

color pigments is the production by paint manufacturers which is consumed in paints produced at the same location. No separate data are shown in the census for this captive production.

The raw material and labor requirements of manufacturers producing white opaque and extender pigments differ from those of manufacturers producing chrome colors or other inorganic color pigments, and establishment statistics for these separate groupings are shown in Table 8A. Included in the latter group are plants whose principal activity in "blending," and which purchase either toners or inorganic pigments from other manufacturers classified in Industry 2852. The products of such establishments are included in product code 2852398.

Data on the principal raw materials consumed by pigment manufacturers were not compiled in the 1954 Census of Manufacturers. Such information is compiled by the United States Department of the Interior, Bureau of Mines, and published in its annual publication, *Minerals Year Book*.

The shipments data shown in this Census report for certain pigments differ from the figures shown in the *Minerals Year Book* partly because of coverage differences. (See Introduction for establishments covered by the Census of Manufacturers.) In addition, reports to the Census Bureau reflect the value of the product as shipped from each producing plant whether as a pigment or as a finished product such as paint or storage batteries. On the other hand, lead and zinc "pigments consumed by producing companies to make other products . . . are considered as shipments" of pigments by the Bureau of Mines. The Bureau of Mines also eliminates the quantities of pigments sold or transferred for processing into other pigments for which it publishes data. These quantities and values are not eliminated by the Census Bureau and this duplication accounts for the difference in lead and zinc oxide data as reported by the two agencies. Other minor reporting differences exist; for example, the Bureau of Mines value figures are exclusive of container costs, whereas the Census Bureau figures include these costs. The distribution by end products for specified pigments is also shown in the *Minerals Year Book*.

2853--Whiting and Fillers (Full Standard Industrial Classification Title: Whiting, Putty Wood Fillers, and Allied Paint Products)

This industry comprises establishments primarily engaged in manufacturing whiting from limestone or chalk; whiting ground in oil (putty); and wood fillers and allied paint products such as caulking and glazing compounds. Establishments pri-

marily engaged in manufacturing products like spackle and similar plasters are classified in Industry 3272, Gypsum Products. For a detailed list of primary products of Industry 2853, refer to Table 6A, product codes 2853011 to 2853098.

The value of shipments of Industry 2853, Whiting and Fillers, in 1954 totaled \$24 million. This included shipments of primary products (whiting and fillers) valued at \$21 million, shipments of secondary products valued at \$3 million, and a negligible amount for miscellaneous receipts.

Industry 2853 shipments of whiting and fillers in 1954 represented 89 percent of its total product shipments (primary and secondary). In 1947, this primary product specialization ratio was 81 percent.

Shipments of whiting and fillers by plants classified in Industry 2853 in 1954 represented 47 percent of the whiting and fillers, valued at \$45 million, shipped by all industries. This coverage ratio in 1947 was 53 percent. Other plants shipping whiting and fillers in 1954 were classified mainly in Industry 2851, Paints and Varnishes, \$15 million. In addition, an undetermined amount of whiting and other grades of chalk was produced by establishments classified in Mineral Industries.

Although "paint driers" are considered as primary to Industry 2853, many establishments reported this product as miscellaneous synthetic (acyclic) chemicals. Detailed product information for paint driers is compiled and published by the United States Tariff Commission in its annual publication, Synthetic Organic Chemicals.

The general statistics (employment, payrolls, value of shipments, cost of materials, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products, and, for that matter, their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (Tables 1-4) with product statistics (Table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in Table 5A which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry made as secondary products by establishments classified in other industries.

## MANUFACTURES—INDUSTRY STATISTICS

Table 1.—GENERAL STATISTICS FOR THE UNITED STATES: 1954 AND EARLIER YEARS

(For explanation of column captions see Introduction)

Industry and census year	Establishments, number	All employees		Production workers		Value added by manufacture <sup>2</sup>	Cost of materials, etc.	Value of shipments <sup>3</sup>
		Number <sup>1</sup>	Payroll (\$1,000)	Number <sup>1</sup>	Wages (\$1,000)			
Paints and varnishes (S.I.C. 2851):								
1954.....	1,469	56,580	263,887	33,865	127,640	642,656	851,816	1,494,399
1953 <sup>4</sup> .....	(NA)	60,810	279,872	34,157	134,361	643,027	926,575	1,569,602
1952 <sup>4</sup> .....	(NA)	58,413	255,076	33,042	123,650	584,413	794,532	1,378,946
1951 <sup>4</sup> .....	(NA)	59,341	246,645	34,640	121,776	558,206	843,060	1,401,266
1950 <sup>4</sup> .....	(NA)	56,039	216,573	32,298	104,933	489,968	726,950	1,216,918
1949 <sup>4</sup> .....	(NA)	51,317	186,630	31,247	92,919	433,987	616,042	1,050,029
1947.....	1,291	53,412	180,952	34,693	94,155	469,584	779,257	1,248,841
1939 <sup>5</sup> .....	1,125	(NA)	(NA)	21,879	31,134	185,723	241,366	427,089
1937.....	1,037	35,344	58,877	25,135	34,313	189,484	264,382	453,866
1935 <sup>6</sup> .....	993	30,893	46,038	21,690	25,323	153,962	195,827	349,789
Inorganic color pigments (S.I.C. 2852):								
1954.....	104	12,182	54,755	9,042	37,193	196,901	174,493	371,395
1953 <sup>4</sup> .....	(NA)	12,244	54,168	9,380	38,319	158,821	174,153	332,974
1952 <sup>4</sup> .....	(NA)	13,559	59,690	10,136	38,426	140,641	209,083	349,724
1951 <sup>4</sup> .....	(NA)	14,758	63,000	11,108	41,690	178,612	238,573	417,185
1950 <sup>4</sup> .....	(NA)	14,214	54,704	10,869	37,223	164,413	199,996	364,409
1949 <sup>4</sup> .....	(NA)	12,284	43,876	9,318	29,480	109,199	160,751	269,950
1947.....	95	14,266	43,466	11,086	31,303	104,978	182,068	287,046
1939 <sup>5</sup> .....	59	(NA)	(NA)	5,497	7,606	38,373	41,014	79,387
1937.....	87	8,315	12,396	6,529	8,437	36,892	47,703	84,595
1935 <sup>6</sup> .....	89	7,707	10,621	5,996	6,863	31,055	36,156	67,211
Whiting and fillers (S.I.C. 2853):								
1954.....	98	1,210	5,363	764	2,510	10,337	13,865	24,203
1947.....	71	1,255	4,141	819	2,050	8,995	9,796	18,791
1939 <sup>7</sup> .....	41	(NA)	(NA)	284	319	1,722	1,994	3,716
Paints, varnishes, inorganic color pigments, and whiting and fillers, total: <sup>6</sup>								
1954.....	1,671	69,972	324,005	43,671	167,343	849,894	1,040,174	1,889,997
1953 <sup>4</sup> .....	(NA)	74,601	340,674	44,470	174,550	815,654	(NA)	(NA)
1952 <sup>4</sup> .....	(NA)	73,125	318,773	43,839	163,902	732,948	(NA)	(NA)
1951 <sup>4</sup> .....	(NA)	75,292	313,698	46,449	165,334	745,000	(NA)	(NA)
1950 <sup>4</sup> .....	(NA)	71,878	276,821	44,258	145,114	665,368	(NA)	(NA)
1949 <sup>4</sup> .....	(NA)	65,285	(NA)	41,655	(NA)	554,727	(NA)	(NA)
1947.....	1,457	68,933	228,559	46,598	127,508	583,557	971,121	1,554,678
1939 <sup>7</sup> .....	1,225	(NA)	(NA)	27,600	39,059	225,818	284,374	510,192
1937.....	1,124	43,659	71,273	31,664	42,750	226,376	312,085	538,461
1935.....	1,082	38,600	56,659	27,686	32,186	185,017	231,983	417,000
1933.....	961	30,206	36,607	22,880	23,791	136,416	153,026	289,442
1931.....	1,039	(NA)	(NA)	22,521	29,425	156,989	193,737	350,726
1929.....	1,063	42,099	80,278	29,211	42,245	234,844	334,132	568,976
1927.....	1,006	40,695	73,495	28,061	40,185	211,286	307,724	519,010
1925.....	923	37,297	65,271	25,490	35,420	176,793	293,943	470,736
1923.....	826	34,534	58,622	22,818	29,871	155,179	248,955	404,134
1921.....	804	27,851	46,304	18,015	23,293	102,912	171,398	274,310
1919.....	830	33,732	50,641	21,507	24,118	123,235	217,112	340,347
1914.....	800	25,291	24,369	16,083	10,180	57,158	88,466	145,624
1909.....	791	21,440	18,649	14,240	8,271	45,873	79,016	124,889
1904.....	639	16,041	11,941	11,633	6,264	31,013	59,827	90,840
1899.....	600	13,407	9,943	9,697	4,926	24,823	44,739	69,562

\* Revised

NA Not available.

<sup>1</sup>For the period 1949-1954, figures are based on employment for the payroll periods ended nearest the 15th of March, May, August and November. For 1947, they represent the average of 12 monthly figures. For earlier years, the production worker average was calculated as in 1947, but the figure for all employees represents the sum of the annual average number of production workers and the number of nonproduction workers reported for one payroll period (usually in October).

<sup>2</sup>Value of products less cost of materials, supplies, fuel, electric energy and contract work. See Introduction, "Value Added by Manufacture."

<sup>3</sup>For 1929 and 1947-1954, value of shipments; for all other years, value of production. See Introduction, "Value of Shipments."

<sup>4</sup>The figures for 1949-1953 represent estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period. Estimates with a standard error in excess of 15 percent generally have been omitted from this table.

<sup>5</sup>The figures for 1939 are not directly comparable with those for earlier years. Value added by manufacture for 1939 on a basis comparable with earlier years was \$189.4 million for "Paints and varnishes" and \$40.5 million for "Inorganic color pigments." The 1935 and 1937 figures for these industries include data for establishments primarily engaged in manufacture of whittings and fillers. (See footnote 7 below).

<sup>6</sup>Prior to 1935, "Paints and varnishes" and "Inorganic color pigments" constituted a single classification. The separate figures shown for these industries have been combined with those for "Whiting and fillers" in order that statistics can be shown for the entire period 1899-1947 (The reason for the inclusion of "Whiting and fillers" in this combination is explained in footnote 7 below).

<sup>7</sup>Prior to 1947, "Whiting and fillers" was not classified as a separate industry but was included in "Paints and varnishes" and "Inorganic color pigments." The 1939 figures were obtained from a retabulation of the returns for these industries. For earlier years, similar retabulations were not made, and data on whiting and fillers are included in the figures for "Paints and varnishes" and "Inorganic color pigments."



## PAINTS, VARNISHES, PIGMENTS, AND ALLIED PRODUCTS

28E-5

Table 2.—GENERAL STATISTICS BY REGIONS AND STATES: 1954 AND 1947  
(For explanation of column captions see Introduction)

Industry, region, and State <sup>1</sup>	1954											1947	
	Establishments, number		All employees		Production workers			Value added by manufacture	Cost of materials, etc.	Value of shipments	Capital expenditures, new	All employees, number	Value added by manufacture
	Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)		(\$1,000)
Paints and varnishes (S.I.C. 2851), total.	1,469	552	56,580	263,887	33,865	67,660	127,640	642,656	851,816	1,494,399	21,268	53,412	469,584
New England.....	100	26	2,472	10,701	1,424	2,829	4,871	23,478	29,546	53,024	687	2,541	17,331
Connecticut.....	24	3	410	1,941	231	450	804	3,120	5,792	8,912	210	584	2,561
Middle Atlantic.....	434	156	17,033	81,557	10,575	21,223	41,072	191,622	269,553	461,175	8,942	17,253	148,694
New York.....	191	51	4,810	23,031	3,099	6,288	11,379	54,323	68,839	123,163	953	6,023	60,256
New Jersey.....	155	65	7,428	35,972	4,665	9,458	19,172	89,024	130,385	219,410	4,409	7,135	58,302
Pennsylvania.....	88	40	4,795	22,553	2,810	5,476	10,520	48,273	70,328	118,602	3,580	4,095	30,136
East North Central.....	370	164	20,111	96,648	11,898	23,411	45,976	236,278	306,307	542,585	6,287	19,417	172,416
Illinois.....	139	67	7,734	37,900	4,816	9,695	19,146	93,642	132,175	225,818	2,608	7,059	64,938
Michigan.....	68	29	3,872	19,550	2,353	4,646	9,736	51,634	64,082	115,716	1,231	3,672	35,177
Wisconsin.....	22	9	1,102	5,130	550	1,058	2,015	10,903	14,817	25,721	247	1,143	(D)
West North Central.....	96	40	3,953	18,021	2,196	4,291	7,784	49,167	49,033	98,201	1,017	3,264	32,181
Missouri.....	58	24	2,569	12,162	1,339	2,634	4,621	31,008	26,345	57,354	653	2,073	18,505
South Atlantic.....	113	37	2,671	10,702	1,685	3,542	5,025	26,256	36,558	62,742	(D)	(D)	(D)
Virginia.....	14	3	238	1,018	128	259	383	2,073	3,375	5,449	19	246	(D)
Florida.....	23	6	275	950	181	356	494	2,021	2,820	4,841	75	155	(D)
East South Central.....	42	24	2,113	9,577	1,231	2,673	4,371	25,137	30,981	56,119	1,014	2,123	(D)
Mississippi.....	3	...	14	55	8	17	25	156	248	405	5	14	66
West South Central.....	75	25	2,015	8,579	1,135	2,376	3,848	20,976	29,830	50,807	(D)	(D)	(D)
Texas.....	51	19	1,463	6,419	824	1,741	2,881	17,504	23,333	40,838	471	947	(D)
West.....	239	80	6,209	28,100	3,718	7,311	14,689	69,739	100,005	169,744	2,072	5,426	52,127
Arizona.....	4	1	51	267	24	53	89	581	541	1,122	17	(D)	(D)
Oregon.....	17	6	322	1,437	190	382	780	3,283	3,987	7,271	54	271	2,844
California.....	194	62	5,261	24,058	3,157	6,212	12,614	61,195	88,424	149,620	1,777	4,467	45,070
Inorganic color pigments (S.I.C. 2852), total.	104	55	12,182	54,755	9,042	18,220	37,193	196,901	174,493	371,395	8,358	14,266	104,978
New England.....	6	1	89	261	81	174	228	802	661	1,464	25	(D)	(D)
Middle Atlantic.....	42	21	5,771	25,802	4,286	8,850	17,600	94,217	72,132	166,350	2,134	6,167	(D)
New York.....	12	5	1,278	6,036	912	1,926	3,676	14,244	19,107	33,352	(D)	960	5,357
New Jersey.....	16	6	2,424	11,521	1,850	3,923	8,442	63,511	26,038	89,550	(D)	2,370	17,697
Pennsylvania.....	14	10	2,069	8,245	1,523	3,000	5,482	16,461	26,986	43,447	772	2,837	(D)
East North Central.....	21	12	1,632	7,199	1,252	2,458	4,880	15,536	23,141	38,678	772	2,554	(D)
Illinois.....	10	8	995	4,302	752	1,486	2,862	6,984	9,870	16,855	348	1,397	10,782
West North Central.....	6	6	2,099	9,080	1,617	3,114	6,824	35,510	30,788	66,298	592	(D)	(D)
South.....	15	10	2,344	11,260	1,624	3,247	6,928	48,751	42,142	90,894	(D)	3,002	23,323
West.....	14	5	246	1,152	181	375	732	2,083	5,627	7,711	(D)	355	5,727
Whiting and fillers (S.I.C. 2853), total.	98	18	1,210	5,363	764	1,528	2,510	10,337	13,865	24,203	465	1,255	8,995
New England.....	5	1	75	282	51	109	156	580	599	1,180	6	57	(D)
Massachusetts.....	5	1	75	282	51	109	156	580	599	1,180	6	57	(D)
Middle Atlantic.....	21	6	262	1,129	186	389	639	2,083	2,306	4,390	150	222	1,852
New York.....	12	3	124	626	77	150	268	913	1,238	2,152	(D)	60	(D)
New Jersey.....	5	1	61	245	48	105	173	583	431	1,014	(D)	48	(D)
Pennsylvania.....	4	2	77	258	60	133	197	587	636	1,223	3	114	(D)
East North Central.....	32	6	455	2,370	264	523	942	4,346	5,025	9,371	176	517	(D)
Illinois.....	12	1	119	535	77	151	243	1,025	1,160	2,185	31	73	(D)
Michigan.....	10	3	153	811	86	169	303	1,782	1,768	3,551	91	122	1,229
West North Central.....	11	1	79	313	56	107	170	658	605	1,264	31	(D)	(D)
South.....	14	2	211	741	117	233	292	1,424	3,760	5,185	(D)	40	370
West.....	15	2	126	526	87	165	309	1,243	1,568	2,812	(D)	90	1,053

Notes: Detailed figures may not add to the totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup> General statistics for some producing States are not shown separately in the table (see Introduction "Confidentiality of Data for Individual Companies"). Such States are shown below with the number of establishments in each State for 1954 and, in parentheses, the number of employees or the employment-size range for that State for 1947:

S.I.C. 2851, Paints and Varnishes: New England—Maine, 1 (1-19); New Hampshire, 2 (1-19); Vermont, 2 (1-19); Massachusetts, 62 (1716); Rhode Island, 9 (250-499); East North Central—Ohio, 111 (5,000-9,999); Indiana, 30 (1,000-2,499); West North Central—Minnesota, 19 (500-999); Iowa, 9 (500-999); North Dakota, 1 (1-19); Nebraska, 4 (20-99); Kansas, 5 (100-249); South Atlantic—Maryland, 26 (500-999); District of Columbia, 2 (20-99); West Virginia, 4 (20-99); North Carolina, 19 (250-499); South Carolina, 3 (20-99); Georgia, 22 (500-999); East South Central—Kentucky, 21 (100-249); Tennessee, 11 (250-499); Alabama, 7 (100-249); West South Central—Arkansas, 1 (1-19); Louisiana, 16 (250-499); Oklahoma, 7 (100-249); West—Idaho, 1 (1-19); Colorado, 9 (250-499); New Mexico, 1 (1-19); Utah, 2 (20-99); Washington, 11 (100-249).

S.I.C. 2852, Inorganic Color Pigments: New England—Maine, 1 (1-19); Vermont, 1 (20-99); Massachusetts, 3 (1-19); Rhode Island, 1 (1-19); East North Central—Ohio, 8 (500-999); Indiana, 1 (20-99); Wisconsin, 2 (1-19); West North Central—Missouri, 4 (100-249); Kansas, 2 (250-499); South—Delaware, 1 (500-999); Maryland, 3 (500-999); Virginia, 5 (250-499); West Virginia, 1 (20-99); Georgia, 1 (1-19); Florida, 1 (1-19); Kentucky, 1 (100-249); Alabama, 1 (1-19); Texas, 1 (1-19); West—Montana, 1 (20-99); California, 13 (100-249).

S.I.C. 2853, Whiting and Fillers: East North Central—Ohio, 8 (100-249); Wisconsin, 2 (1-19); West North Central—Minnesota, 2 (1-19); Iowa, 2 (1-19); Missouri, 7 (20-99); South—Virginia, 1 (1-19); North Carolina, 1 (1-19); Georgia, 1 (1-19); Florida, 2 (1-19); Tennessee, 2 (100-249); Louisiana, 3 (20-99); Texas, 4 (20-99); West—Colorado, 1 (1-19); Washington, 1 (1-19); California, 13 (100-249).



## MANUFACTURES--INDUSTRY STATISTICS

Table 3.--DETAILED STATISTICS FOR THE UNITED STATES: 1954

(For explanation of line captions see Introduction)

Item	Paints and varnishes (S.I.C. 2851) all estab- lishments	Inorganic color pigments (S.I.C. 2852)		Whiting and fillers (S.I.C. 2853)	
		All estab- lishments	Establish- ments with 90% or more primary prod- uct special- ization	All estab- lishments	Establish- ments with 90% or more primary prod- uct special- ization
Primary product specialization ratio <sup>1</sup> .....	95	88	xxx	89	xxx
Coverage ratio <sup>2</sup> .....	97	88	xxx	47	xxx
Number of establishments, total.....	1,469	104	75	98	82
With 1-19 employees.....	917	49	41	80	69
With 20-99 employees.....	417	30	19	17	13
With 100 employees and over.....	135	25	15	1	...
All employees:					
Number (average for year).....	56,580	12,182	8,099	1,210	868
Payroll.....\$1,000..	263,887	54,755	35,598	5,363	3,860
Production workers:					
Number (average for year).....	33,865	9,042	6,115	764	578
Man-hours.....1,000..	67,660	18,220	12,176	1,528	1,173
Wages.....\$1,000..	127,640	37,193	25,050	2,510	1,951
Value added by manufacture.....do...	642,656	196,901	130,811	10,337	8,167
Cost of materials, etc.....do...	851,816	174,493	114,112	13,865	8,980
Value of shipments.....do...	1,494,399	371,395	244,924	24,203	17,147
Value added by resales.....do...	15,857	2,828	1,779	543	60
Cost of products bought and resold.....do...	69,631	14,327	8,229	1,776	132
Sales of products bought and resold.....do...	85,488	17,155	10,008	2,319	192
Total inventories, beginning of year.....do...	235,109	70,842	47,681	2,532	1,820
Total inventories, end of year.....do...	232,647	66,490	44,365	2,675	1,907
Capital expenditures, new.....do...	21,268	8,358	5,398	( <sup>3</sup> )	( <sup>3</sup> )
Number of employees for selected months:					
March.....	56,772	12,058	7,982	1,118	827
May.....	56,484	12,066	7,979	1,173	838
August.....	57,136	12,303	8,218	1,283	899
November.....	55,926	12,300	8,201	1,265	908
Cost of materials, fuel, electricity and contract work, total.....\$1,000..	851,816	174,493	114,112	13,865	8,980
Materials, parts, containers, and supplies consumed.....do...	841,096	161,193	105,290	13,618	8,766
Fuels consumed, total.....do...	4,565	9,364	6,617	94	78
Bituminous coal and anthracite:					
Quantity.....1,000 short tons..	162	524	(NA)	2	(NA)
Value.....\$1,000..	1,409	3,925	(NA)	19	(NA)
Coke:					
Quantity.....1,000 short tons..	5	11	(NA)	...	...
Value.....\$1,000..	97	102	(NA)	...	...
Fuel oil:					
Quantity.....1,000 barrels..	481	1,282	(NA)	12	(NA)
Value.....\$1,000..	1,795	3,468	(NA)	40	(NA)
Gas:					
Quantity.....million cubic feet..	2,278	6,990	(NA)	64	(NA)
Value.....\$1,000..	962	1,658	(NA)	27	(NA)
Other fuels:					
Value.....do...	302	211	(NA)	8	(NA)
Electric energy:					
Purchased:					
Quantity.....million kwh..	334	287	147	4	4
Cost.....\$1,000..	5,092	3,072	1,861	106	89
Generated.....million kwh..	28	176	176	...	...
Sold:					
Quantity.....do...	15	2	2	...	...
Value.....\$1,000..	211	26	26	...	...
Cost of contract work.....do...	1,063	864	344	47	47
Manufacturers' inventories:					
Beginning of year, total.....do...	235,109	70,842	47,681	2,532	1,820
Finished products.....do...	112,732	30,345	19,955	671	( <sup>3</sup> )
Work-in-process.....do...	17,290	6,380	4,151	( <sup>3</sup> )	( <sup>3</sup> )
Materials, supplies, fuel, etc.....do...	105,087	34,117	23,575	1,815	1,319
End of year, total.....do...	232,647	66,490	44,365	2,675	1,907
Finished products.....do...	116,043	25,011	15,551	736	( <sup>3</sup> )
Work-in-process.....do...	17,271	6,507	4,231	( <sup>3</sup> )	( <sup>3</sup> )
Materials, supplies, fuel, etc.....do...	99,333	34,972	24,583	1,892	1,379
Expenditures for plant and equipment, total.....do...	21,992	8,425	5,413	( <sup>3</sup> )	( <sup>3</sup> )
Capital expenditures, new.....do...	21,268	8,358	5,398	( <sup>3</sup> )	( <sup>3</sup> )
New structures and additions to plant.....do...	8,612	1,394	897	( <sup>3</sup> )	( <sup>3</sup> )
New machinery and equipment.....do...	12,656	6,964	4,501	( <sup>3</sup> )	( <sup>3</sup> )
Expenditures for used plant and equipment.....do...	724	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
Horsepower rating of power equipment at end of 1954:					
Horsepower of prime movers and electric motors driven by					
purchased energy, total.....1,000 hp..	335	204	133	5	3
Engines, etc., driving electric generators.....do...	14	54	54	( <sup>4</sup> )	...
Engines, etc., not driving electric generators.....do...	3	14	10	...	...
Electric motors driven by purchased energy.....do...	318	136	69	5	3
Electric motors driven by energy generated at the establishment.....do...	5	65	65	...	...

Note: Detailed figures may not add to the totals because of independent rounding. NA Not available. xxx Not applicable. <sup>1</sup>The specialization ratio compares the given industry's shipments of its primary products to its total shipments of all products. (The primary products are listed in Tables 5B and 6A; the first 4-digits of the product code represent the industry code to which the product is primary.) Columns containing totals for establishments having 90% or more primary product specialization are shown only for those industries having a primary product specialization of less than 90%. <sup>2</sup>The coverage ratio measures the extent to which the total shipments of products primary to the given industry are shipped by establishments classified in that industry. <sup>3</sup>Less than \$500 thousand. <sup>4</sup>Less than 500 hp.

Table 4.—SELECTED STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR THE UNITED STATES: 1954

(Value figures in thousands of dollars. For explanation of line captions see Introduction. Data which cannot be shown without disclosing information for individual companies have been combined with figures for other size classes. A (D) appears in the column where the figure has been omitted and the combined figure is underlined and shown in the size-class to the left)

Ind. code	Industry and item	Total, all establishments	Establishments with an average of—									
			1-4 em- employees	5-9 em- employees	10-19 em- employees	20-49 em- employees	50-99 em- employees	100-249 employees	250-499 employees	500-999 employees	1,000-2,499 employees	2,500 employees and over
2851	Paints & varnishes:											
	Number of establishments..	1,469	436	250	231	257	160	103	25	5	2	..
	Number of employees .....	56,580	1,204	1,800	3,234	8,136	11,108	16,050	9,216	5,828	(D)	..
	Value added by manufacture	642,656	9,385	15,941	29,333	75,451	110,679	191,014	139,940	70,911	(D)	..
2852	Inorganic color pigments:											
	Number of establishments..	104	21	11	17	13	17	12	8	2	3	..
	Number of employees.....	12,182	51	90	243	436	1,224	1,984	2,629	5,523	(D)	..
	Value added by manufacture	196,901	488	881	2,405	2,819	13,048	21,524	32,897	122,838	(D)	..
2853	Whiting and fillers:											
	Number of establishments..	98	33	30	17	15	2	1	...	...	...	..
	Number of employees.....	1,210	85	199	218	454	252	(D)	...	...	...	..
	Value added by manufacture	10,337	832	1,707	2,577	4,035	1,185	(D)	...	...	...	..

Note: Detailed figures may not add to the totals, because of independent rounding.

Table 5A.—INDUSTRY-PRODUCT ANALYSIS—SUMMARY OF INDUSTRY AND PRIMARY PRODUCT SHIPMENTS, SPECIALIZATION RATIOS AND COVERAGE RATIOS FOR THE UNITED STATES: 1954 AND 1947

Industry code	Industry and census year	Value of shipments					Value of primary products shipped			
		Total	Primary products	Secondary products	Miscellaneous receipts	Primary product specialization ratio <sup>1</sup> Col. B Col. B+C (Percent)	Total (made in all industries)	Made in this industry	Made in other industries	Coverage ratio <sup>2</sup> Col. G Col. F (Percent)
		(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)		(\$1,000)	(\$1,000)	(\$1,000)	
		(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)
2851	Paints and varnishes.....1954..	1,494,399	1,410,485	80,231	3,683	95	1,458,297	1,410,485	47,812	97
	1947..	1,248,841	1,161,701	77,436	9,704	94	1,204,540	1,161,701	42,839	96
2852	Inorganic color pigments....1954..	371,395	325,090	44,663	1,642	88	370,222	325,090	45,132	88
	1947..	287,046	249,679	34,060	3,307	88	277,857	232,940	44,917	84
2853	Whiting and fillers.....1954..	24,203	21,326	2,556	321	89	45,431	21,326	24,105	47
	1947..	18,791	15,279	3,500	12	81	29,007	15,279	13,728	53

<sup>1</sup>The specialization ratio compares the given industry's shipments of its primary products to its total shipments of all products. (The primary products are listed in Tables 5B and 6A; the first 4-digits of the product code represent the industry code to which the product is primary.)

<sup>2</sup>The coverage ratio measures the extent to which the total shipments of products primary to the given industry are shipped by establishments classified in that industry.

## MANUFACTURES—INDUSTRY STATISTICS

Table 5B.—INDUSTRY-PRODUCT ANALYSIS—SHIPMENTS BY PRODUCT CLASS AND INDUSTRY, FOR THE UNITED STATES: 1954

(In thousands of dollars. Each column shows for the industry listed in the column heading, the value of shipments divided between paint and allied products, other products, and miscellaneous receipts. Each figure represents the amount of the product class shown at the left shipped by the industry listed at the top of the column. The first four digits of the product class codes at the left represent the codes of the industries to which they are primary. All other product classes in a column represent products secondary to the specified industry)

Pr d. class code	Class of products and miscellaneous receipts	Paints and varnishes (S.I.C. 2851)	Inorganic color pigments (S.I.C. 2852)	Whiting and fillers (S.I.C. 2853)	Inter- mediates and organic colors (S.I.C. 2822)	Other industries	All industries
	Total shipments and receipts of the industry.....	1,494,399	371,395	24,203	xxx	xxx	xxx
285-	Paints and allied products.....	1,434,480	328,034	21,958	21,413	68,065	1,873,950
28511	Paints, varnishes, lacquer, trade sales products.....	719,991	1,879	540	...	13,580	735,990
28512	Industrial products finishes, and special coatings.....	673,439	(D)	(D)	5,764	124,114	703,789
28510	Paints and varnishes, not specified by kind.....	17,055	(D)	(D)	...	(D)	18,518
28521	White opaque pigments.....	1,810	226,345	...	...	11,528	239,683
28522	Chrome colors.....	(D)	20,223	...	11,199	(D)	33,474
28523	Other inorganic pigments, including white extenders.....	6,321	78,412	...	4,450	7,697	96,880
28524	Inorganic color pigments, not specified by kind.....	(D)	110	...	...	(D)	185
28530	Whiting, putty, wood, fillers, and allied paint products.	15,129	258	21,326	...	8,718	45,431
	Other products.....	56,236	41,719	1,924	xxx	xxx	xxx
		...	2,309	...	xxx	xxx	xxx
28110	Sulfuric acid.....			( <sup>2</sup> )	xxx	xxx	xxx
2819-	Inorganic chemicals, n.e.c.....	1,443	22,006	...	xxx	xxx	xxx
28223	Synthetic organic pigments, lakes, and toners.....	5,581		...	xxx	xxx	xxx
28236	Other plastics and resin materials.....	12,186	( <sup>2</sup> )	...	xxx	xxx	xxx
28423	Specialty detergents.....	2,478	...	...	xxx	xxx	xxx
28424	Polishing preparations and related products.....	2,521	( <sup>2</sup> )	( <sup>2</sup> )	xxx	xxx	xxx
28910	Printing ink.....	2,829	...	...	xxx	xxx	xxx
28941	Glues and adhesives.....	4,837	...	265	xxx	xxx	xxx
28993	Chemical specialties.....	7,656	2,615	( <sup>2</sup> )	xxx	xxx	xxx
29522	Asphalt and tar coatings, cements and pitches.....	2,954	( <sup>2</sup> )	( <sup>2</sup> )	xxx	xxx	xxx
32720	Gypsum products.....	4,873	...	...	xxx	xxx	xxx
	Other secondary products.....	14,459	9,208	1,719	xxx	xxx	xxx
	Miscellaneous receipts.....	3,683	1,642	321	xxx	xxx	xxx
	Contract and commission work.....	3,189	1,222	300	xxx	xxx	xxx
	Other receipts.....	494	420	21	xxx	xxx	xxx

xxx Not applicable.

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>Includes \$9,990 thousand shipped by establishments classified in Industry 2891, Printing Ink.

<sup>2</sup>Included in "Other Secondary Products" to avoid disclosure of figures for individual companies.

<sup>3</sup>Of this figure 64 percent consists of the following product classes: 28235, Synthetic resins, except protective coatings, 28254, Other synthetic organic chemicals, and 34111, Metal cans.

## PAINTS, VARNISHES, PIGMENTS, AND ALLIED PRODUCTS

28E-9

Table 6A.—QUANTITY AND VALUE OF PRODUCTS SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, FOR THE UNITED STATES: 1954 AND 1947

Product code	Product	1954		
		Production for all purposes	Total shipments including interplant transfers	
			Quantity	Value
		(1,000 gallons)	(1,000 gallons)	(\$1,000)
2851---	Paints and varnishes, total.....	<sup>2</sup> 632,460	<sup>2</sup> 608,251	1,458,297
28511	Trade sales products (including general maintenance) <sup>3</sup> .....	281,011	275,890	735,990
	Exterior use:			
	Oil and alkyd vehicle paints in paste and semipaste form:			
2851111	White lead in oil <sup>4</sup> .....	1,675	1,299	3,046
2851113	Red lead in oil.....	232	233	953
2851115	Other colors in oil and in japan.....	925	913	4,926
2851117	Other paste and semipaste paints.....	1,530	1,488	5,399
	Oil paints, enamels, and varnishes in ready-mixed form:			
2851121	Oil and alkyd vehicle house paints.....	45,726	45,339	152,406
2851123	Enamels (including trim and trellis, porch, and deck).....	13,890	13,613	49,060
2851125	Undercoatings and primers.....	10,617	10,520	27,381
2851127	Barn and roof paints (excluding bituminous paints and roof coatings).....	3,925	3,925	8,330
2851129	Bituminous paints (excluding roof coatings).....	4,477	5,002	2,861
2851131	Metallic paints (aluminum, zinc, bronze, etc.).....	6,280	6,194	17,916
2851133	Varnish, oleoresinous (synthetic).....	3,936	3,472	8,878
2851135	Varnish, oleoresinous (natural).....	716	659	1,396
2851137	Stain, shingle.....	2,392	2,404	4,995
2851139	Other exterior paints, enamels, and varnishes.....	4,001	3,763	12,459
	Water-thinned paints:			
2851141	Lime and cement bound, dry <sup>5</sup> .....	8,896	8,741	5,221
2851145	Other exterior water-thinned paints.....	1,739	1,664	5,013
	Interior use, oil paints, enamels, and varnishes in ready-mixed form:			
2851151	Mill white paints.....	8,885	8,881	26,668
2851153	Flat wall paints including semipaste (oil and alkyd vehicle)...	31,781	31,698	80,160
2851155	Gloss and semigloss, including enamels.....	30,209	30,011	99,631
2851156	Undercoatings and primers.....	9,024	9,034	21,973
2851157	Machinery finish.....	2,110	1,848	5,466
2851159	Other interior paints and enamels, not elsewhere classified....	3,112	2,952	8,270
	Varnishes:			
2851161	Natural resin varnish, excluding shellac.....	3,060	2,887	5,477
2851163	Synthetic resin base varnish.....	15,390	13,242	24,560
2851165	Spirit varnish, excluding shellac.....	374	386	705
2851167	Shellac varnish.....	3,570	3,548	8,854
2851169	Other interior varnish, not elsewhere classified.....	1,289	1,267	2,203
2851171	Stains.....	1,978	2,113	4,842
	Water-thinned paints:			
	Latex base emulsion paints:			
2851181	Butadiene-styrene.....	29,406	29,004	79,665
2851182	Vinyl and others.....	3,139	3,012	8,389
2851183	Resin and other bases emulsion paints (paste and semipaste)....	1,814	1,770	4,491
	Casein and other protein bound, glue bound:			
2851184	Dry <sup>6</sup> .....	3,598	3,577	1,950
2851185	Paste and semipaste.....	2,232	2,239	3,609
2851186	Plastic texture, paste and dry <sup>7</sup> .....	4,080	4,048	3,356
2851187	Calcimines <sup>8</sup> .....	1,122	1,551	358
2851189	Other interior water-thinned paints.....	747	774	1,094
2851100	Trade sales products, not specified by kind.....	<sup>8</sup> 13,134	<sup>8</sup> 12,819	34,029
28512	Industrial product finishes including industrial maintenance special coatings <sup>9</sup> .....	343,304	324,554	703,789
	Industrial maintenance coatings:			
	For industrial plants: <sup>9</sup>			
2851211	Interior.....	5,681	5,741	16,211
2851213	Exterior.....	17,620	17,614	16,804
2851215	Traffic paints, all types.....	3,810	3,723	8,045
	Marine paints:			
2851217	Ship bottom.....	2,058	2,067	6,913
2851219	Other.....	6,047	6,040	19,205
2851221	Industrial product finishes:			
	Undercoaters and primers, oleoresinous.....	15,189	14,829	36,220
	Enamel finishes, excluding lacquer			
2851231	Wrinkle finishes.....	1,992	2,012	5,852
2851233	Hammer, crackle, crystal, pearl essence finishes.....	1,829	1,800	6,229
2851235	Metallic (aluminum, bronze, etc.) including automotive metallic finishes.....	4,186	4,032	11,643
2851237	Alkyd and oil types.....	54,483	54,009	156,039
2851239	Other types.....	9,011	8,666	22,649

See footnotes at end of table.



## MANUFACTURES—INDUSTRY STATISTICS

Table 6A.--QUANTITY AND VALUE OF PRODUCTS SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, FOR THE UNITED STATES: 1954 AND 1947--Continued

Product code	Product	1954				
		Production for all purposes	Total shipments including interplant transfers			
			Quantity	Value		
		(1,000 gallons)	(1,000 gallons)	(\$1,000)		
2851----	Paints and varnishes--Continued					
28512	Industrial product finishes including industrial maintenance special coatings <sup>3</sup> --Continued					
	Industrial product finishes--Continued					
	Clear finishes, excluding lacquer:					
2851241	Insulating varnishes, electrical types.....	6,058	6,022	13,671		
2851243	Alkyd resin base varnishes.....	17,551	13,856	29,032		
2851245	Other synthetic resin base varnishes.....	22,790	19,960	41,718		
2851247	Natural resin base varnishes, excluding shellac.....	6,722	4,728	9,176		
2851251	Spirit varnishes, excluding shellac.....	528	519	942		
2851253	Shellac varnishes.....	496	496	1,316		
2851255	Baking and drying japans and driers.....	2,698	2,288	3,765		
2851259	Other varnishes, including mixtures, not elsewhere classified	5,378	4,206	7,497		
2851261	Stains.....	2,789	2,699	4,471		
2851263	Dopes, cellulose nitrate and other dopes.....	2,519	2,516	3,932		
2851265	Thinners for dopes, lacquers, and oleoresinous thinners, including mixtures and proprietary thinners.....	52,212	47,270	46,838		
		(1,000 pounds)	(1,000 pounds)			
2851267	Bleached shellac (not varnish).....	23,527	22,367	12,373		
	Lacquers:	(1,000 gallons)	(1,000 gallons)			
	Clear:					
2851271	Cellulose nitrate.....	23,081	22,568	46,019		
2851275	Cellulose lacquer, excluding cellulose nitrate.....	2,671	2,691	5,542		
2851277	Non-cellulose lacquers.....	5,422	5,416	8,598		
	Pigmented:					
2851281	Cellulose nitrate.....	24,292	22,917	75,548		
2851285	Cellulose lacquer, excluding cellulose nitrate.....	2,352	2,359	6,162		
2851287	Non-cellulose lacquers.....	1,262	1,240	2,710		
2851298	Other industrial product finishes <sup>10</sup> .....	31,148	31,466	55,651		
2851200	Industrial products finishes including industrial maintenance special coatings.....	<sup>11</sup> 11,429	<sup>11</sup> 10,804	23,018		
2851000	Paints, varnishes, lacquers, japans, and enamels, etc., not specified by kind.....	<sup>12</sup> 8,145	<sup>12</sup> 7,807	18,518		
1954 and 1947 comparative data (see text for industry)						
		1954		1947		
		Production for all purposes	Total shipments including interplant transfers		Production for all purposes	
			Quantity	Value		Quantity
		(1,000 gallons)	(1,000 gallons)	(\$1,000)	(1,000 gallons)	(\$1,000)
2851----	Paints and varnishes, total.....	<sup>2</sup> 632,460	<sup>2</sup> 608,251	1,458,297	xxx	xxx
	Oil and alkyd vehicle paints:					
	Paste and semipaste form:					
2851111	White lead in oil <sup>4</sup> .....	1,675	1,299	3,046	6,233	14,388
2851113	Colors in oil.....	1,157	1,146	5,879	1,239	5,112
2851115						
2851117	Other.....	<sup>13</sup> 1,530	<sup>13</sup> 1,488	<sup>13</sup> 5,399	10,127	27,625
	Ready mixed:					
2851121	Exterior.....	45,726	45,339	152,406	63,319	198,953
2851153	Interior.....	<sup>13</sup> 31,781	<sup>13</sup> 31,698	<sup>13</sup> 80,160	40,252	93,044
2851151	Mill whites.....	8,885	8,881	26,668	3,915	9,582
	Water thinned paints:					
2851141	Cold water paints <sup>5</sup> <sup>6</sup> .....	14,726	14,557	10,780	(NA)	9,600
2851184						
2851185	Calcimines <sup>5</sup> .....	1,122	1,551	358	(NA)	1,146
2851187	Plastic texture paints <sup>7</sup> .....	4,080	4,048	3,356	(NA)	2,822
2851186						
	Emulsion paints:					
2851181	Interior.....	35,106	34,560	93,639	16,912	30,238
2851182						
2851183	Exterior.....	1,739	1,664	5,013	275	64
2851189						
2851145						

See footnotes at end of table.

## PAINTS, VARNISHES, PIGMENTS, AND ALLIED PRODUCTS

28E-11

Table 6A.--QUANTITY AND VALUE OF PRODUCTS SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, FOR THE UNITED STATES: 1954 AND 1947--Continued

Product code	Product	1954 and 1947 comparative data					
		1954			1947		
		Production for all purposes	Total shipments including interplant transfers		Production for all purposes	Total shipments including interplant transfers	
			Quantity	Value		Quantity	Value
		(1,000 gallons)	(1,000 gallons)	(\$1,000)	(1,000 gallons)	(1,000 gallons)	(\$1,000)
2851---	Paints and varnishes--Continued						
	Oil and alkyd vehicle paints--Continued						
	Undercoatings and primers--Continued						
2851125	Exterior.....	10,617	10,520	27,381	24,872	24,522	54,135
2851156	Interior.....	9,024	9,034	21,973			
2851221	Industrial product finishes.....	15,189	14,829	36,220			
2851127	Barn and roof paints (excluding bituminous roof coatings).....	3,925	3,925	8,330	5,165	5,340	9,799
	Maine paints:						
2851217	Ship bottom.....	2,058	2,067	6,913	2,387	2,404	5,421
2851219	Other.....	6,047	6,040	19,205	7,855	7,597	18,401
2851131	Metallic (zinc dust, aluminum, etc.).....	6,280	6,194	17,916	6,573	6,421	17,634
2851211	Other paints (including bituminous paints) <sup>14</sup> .....	31,588	32,080	43,921	37,669	37,356	52,948
2851213							
2851215							
2851129							
	Varnishes:						
2851133	Synthetic resin base.....	59,667	50,530	104,188	51,813	42,112	75,019
2851163							
2851243							
2851245							
	Spirit varnish:						
2851167	Shellac.....	4,066	4,044	10,170	5,328	5,273	14,976
2851253	Other.....	902	905	1,647	1,682	1,639	2,552
2851165							
2851251							
2851135	Natural resin, except shellac.....	10,498	8,274	16,049	12,521	11,759	21,348
2851161							
2851247							
2851169	Other, including mixtures.....	12,725	11,495	23,371	24,971	18,981	36,436
2851241							
2851259							
	Enamels:						
2851123	Trade sales products.....	46,209	45,472	154,157	88,067	87,116	248,929
2851155							
2851157							
2851231							
2851233	Industrial product finishes.....	71,501	70,519	202,412			
2851235							
2851237							
2851239							
	Lacquers:						
2851271	Clear.....	31,174	30,675	60,159	27,822	27,705	52,155
2851275							
2851277							
2851281							
2851285	Pigmented.....	27,906	26,516	84,420	23,191	23,046	64,953
2851287							
	Stains:						
2851137	Shingle.....	2,392	2,404	4,995	2,901	2,825	4,385
2851171	Other.....	4,767	4,812	9,313	6,099	6,025	11,848
2851261							
	Dopes, thinners, shellacs, japans, and driers						
2851263	Dopes.....	2,519	2,516	3,932	3,309	3,294	4,756
2851265	Thinners for dopes and lacquers (including mixtures and thinners only).....	52,212	47,270	46,838	38,958	38,816	37,251
		(1,000 pounds)	(1,000 pounds)		(1,000 pounds)	(1,000 pounds)	
2851267	Bleached shellac (not varnish).....	23,527	22,367	12,373	13,010	12,596	8,100
		(1,000 gallons)	(1,000 gallons)		(1,000 gallons)	(1,000 gallons)	
2851255	Drying and baking japans and driers.....	2,698	2,288	3,765	6,295	5,584	6,819
	Not elsewhere classified:						
	Other paints, enamels and varnishes						
2851100	Trade sales products.....	820,247	819,534	54,758	xxx	xxx	1563,525
2851139							
2851159							
2851200							
2851298	Industrial sales products.....	1142,577	1142,270	78,669			
2851000	Not specified by kind.....	128,145	127,807	18,518			

See footnotes at end of table.

## MANUFACTURES--INDUSTRY STATISTICS

Table 6A.--QUANTITY AND VALUE OF PRODUCTS SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, FOR THE UNITED STATES: 1954 AND 1947--Continued

Product code	Product	1954					1947				
		Production for all purposes	Total shipments including interplant transfers		Commercial shipments		Production for all purposes	Total shipments including interplant transfers		Commercial shipments	
			(short ton)	Quantity (short ton)	Value (\$1,000)	Quantity (short ton)		Value (\$1,000)	(short ton)	Quantity (short ton)	Value (\$1,000)
2852----	Inorganic color pigments, total <sup>16</sup> .....	xxx	xxx	370,222	xxx	xxx	xxx	xxx	277,857	xxx	xxx
28521	White opaque pigments.....	xxx	xxx	239,683	xxx	xxx	xxx	xxx	158,337	xxx	xxx
	White lead, excluding white lead in oil:										
2852111	Basic lead carbonate.....	}	26,586	18,039	5,242	13,177	4,011	73,843	51,440	14,698	30,928
2852115	Basic lead sulfate.....										
	Zinc oxide pigments:										
2852121	Lead-free zinc oxide.....	138,357	137,136	34,864	(D)	(D)	159,493	161,251	30,040	160,591	29,916
2852125	Leaded zinc oxide.....	57,486	58,736	11,029	(D)	(D)	96,729	94,760	21,182	81,781	18,544
	Titanium pigments, 100% TiO <sub>2</sub> :										
2852131	Titanium dioxide, pure.....	}	361,006	363,010	175,661	333,251	161,613	219,647	204,737	69,742	183,433
2852135	Composite titanium pigments.....										
2852141	Antimony oxide pigments.....	xxx	xxx	(17)	xxx	xxx	xxx	xxx	(17)	xxx	xxx
2852151	Zinc sulfide pigments, pure.....	xxx	xxx	(17)	xxx	xxx	xxx	xxx	(17)	xxx	xxx
2852161	Lithopone.....	44,738	44,554	6,191	(D)	(D)	155,354	155,997	15,794	116,356	11,918
2852198	All other.....	xxx	xxx	176,556	xxx	xxx	xxx	xxx	176,881	xxx	xxx
2852100	White opaque pigments, not specified by kind.....	xxx	xxx	140	xxx	xxx	xxx	xxx	xxx	xxx	xxx
28522	Chrome colors, C.P.....	xxx	xxx	33,474	xxx	xxx	xxx	xxx	21,862	xxx	xxx
2852211	Chrome green (chrome yellow and iron blue).....	6,934	6,946	5,025	5,748	4,307	8,537	7,957	5,209	6,075	4,058
2852221	Chrome oxide green.....	6,930	7,010	5,713	(D)	(D)	4,707	4,600	2,761	4,600	2,761
2852231	Chrome yellows and orange.....	24,552	24,409	14,279	20,334	11,882	23,235	21,441	10,966	18,012	9,191
2852251	Hydrated chromium oxide (chrome hydroxide).....	xxx	xxx	(18)	xxx	xxx	xxx	xxx	(19)	xxx	xxx
2852261	Molybdate chrome orange.....	4,782	4,686	3,836	4,296	3,547	2,238	2,163	1,611	2,096	1,565
2852271	Zinc yellow (zinc chromate).....	5,814	5,634	2,738	4,822	2,347	3,476	3,535	1,315	3,154	1,175
2852298	All other.....	xxx	xxx	181,407	xxx	xxx	xxx	xxx	xxx	xxx	xxx
2852200	Chrome colors, not specified by kind.....	xxx	xxx	476	xxx	xxx	xxx	xxx	xxx	xxx	xxx
28523	Other inorganic pigments, including white extender pigments and excluding barium carbonate precipitated.....	xxx	xxx	96,880	xxx	xxx	xxx	xxx	97,658	xxx	xxx
	White extender pigments:										
2852311	Barytes (barium sulfate), natural pigment grade.....	37,413	37,484	1,559	(D)	(D)	( <sup>20</sup> )	( <sup>20</sup> )	( <sup>20</sup> )	( <sup>20</sup> )	( <sup>20</sup> )
2852313	Blanc fixe (barium sulfate, precipitated).....	xxx	xxx	( <sup>21</sup> )	xxx	xxx	26,935	27,485	1,560	27,384	1,552
2852315	Satin white (alumina hydrate and calcium sulfate).....	5,823	5,766	229	(D)	(D)	} <sup>20</sup> 128,882	} <sup>20</sup> 129,844	} <sup>20</sup> 2,650	} <sup>20</sup> 125,012	} <sup>20</sup> 2,552
2852319	All other, excluding whitening.....	xxx	xxx	212,212	xxx	xxx					
2852321	Iron oxide pigments.....	89,231	84,770	14,296	74,132	12,761	88,992	91,368	11,562	89,692	11,310
	Colored lead pigments:										
2852331	Red lead.....	26,773	26,110	8,286	22,346	7,105	31,569	29,650	9,883	28,044	9,333
2852335	Litharge.....	135,976	131,145	39,208	(D)	(D)	176,583	151,930	47,605	140,437	44,326
2852341	Iron blues (prussian blue, milori blue, etc.).....	4,694	4,742	4,183	3,802	3,301	} 5,638	} 4,950	} 4,040	} 4,467	} 3,647
2852351	Ultramarine blue.....	xxx	xxx	( <sup>22</sup> )	xxx	xxx					
2852361	Pearl essence.....	2,454	2,454	1,467	2,454	1,467	} xxx	} xxx	} <sup>19</sup> 20,358	} xxx	} xxx
2852371	Ceramic colors.....	13,922	12,003	14,148	(D)	(D)					
2852398	All other color pigments (excluding organic pigments, lakes, and toners, etc.).....	xxx	xxx	<sup>22</sup> 10,531	xxx	xxx	} xxx	} xxx	} xxx	} xxx	} xxx
2852300	Other inorganic pigments, including white extender pigments, not specified by kind.....	xxx	xxx	761	xxx	xxx					
2852000	Inorganic color pigments, not specified by kind.....	xxx	xxx	185	xxx	xxx	xxx	xxx	xxx	xxx	xxx

See footnotes at end of table.

PAINTS, VARNISHES, PIGMENTS, AND ALLIED PRODUCTS

28E-13

Table 6A.—QUANTITY AND VALUE OF PRODUCTS SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, FOR THE UNITED STATES: 1954 AND 1947--Continued

Product code	Product	Unit of quantity	1954			1947		
			Production for all purposes	Total shipments including interplant transfers		Production for all purposes	Total shipments including interplant transfers	
				Quantity	Value (\$1,000)		Quantity	Value (\$1,000)
2853---	Whiting and fillers, total.....	.....	xxx	xxx	45,431	xxx	xxx	29,007
2853011	Whiting (including ground limestone or chalk)....	Thousand pounds...	120,354	117,138	1,306	123,040	123,192	871
2853031	Wood and textile preservatives (nonpressure type).	Thousand gallons..	4,290	4,328	6,194	2,095	2,071	2,723
2853051	Wood fillers and sealers.....	.....	xxx	xxx	4,954	xxx	xxx	6,057
	Putties, glazing and caulking compounds:							
2853071	Wood and metal sash putties.....	Thousand pounds...	152,460	154,363	12,202	177,463	177,131	10,640
2853075	Caulking compounds.....	....do.....	85,828	86,904	12,828	43,345	42,994	7,668
2853098	Other allied paint products.....	.....	xxx	xxx	6,207	xxx	xxx	762
2853000	Whiting and fillers, not specified by kind.....	.....	xxx	xxx	1,740	xxx	xxx	286

xxx Not applicable.

D Withheld to avoid disclosing figures for individual establishments.

NA Not available.

<sup>1</sup>In many instances, the 1954 product data may not be compared directly with the 1947 product statistics because of numerous revisions and rearrangements of products incorporated into the 1954 product classifications. Comparability by product groupings is shown below.

<sup>2</sup>Include estimates for product codes 2851000, 2851100, 2851200, and 2851298 and exclude figures for bleached shellac.

<sup>3</sup>The comparability of the shipment figures with those reported on the monthly survey M19J, "Paint, Varnish, and Lacquer," will be explained in the final publication. Quantity data include estimates, (see footnote 2 above).

<sup>4</sup>Quantities converted from pounds to gallons on the basis of 100 pounds per 8-1/2 gallons.

<sup>5</sup>Quantities converted from pounds to gallons on basis of 5 pounds per gallon.

<sup>6</sup>Quantities converted from pounds to gallons on basis of 4 pounds per gallon.

<sup>7</sup>Quantities converted from pounds to gallons on basis of 10 pounds per gallon.

<sup>8</sup>Estimated on basis of average for trade sale products.

<sup>9</sup>The products included are specially formulated coatings for special conditions either in the interior or exterior of industrial plants requiring protection against extreme temperatures, fungi, chemical fumes, etc.

<sup>10</sup>Includes values for formulated paint vehicles, resins, and other special solutions, automotive undercoatings, pigment dispersions, plastisols, and other semimanufactured paint products. Quantities partially estimated on basis of average reported for this product line.

<sup>11</sup>Estimated on basis of average for industrial product finishes.

<sup>12</sup>Estimated on basis of average for trade sales products and industrial product finishes.

<sup>13</sup>An unspecified amount of semipaste paints included in totals for product code 2851153, Interior Ready Mixed Paints.

<sup>14</sup>An unspecified amount of bituminous paint included in totals for product code 2851213, Industrial Maintenance Coatings, Exterior.

<sup>15</sup>Includes \$24,647,000 and \$966,000 for "Paints, Varnishes, Lacquers, Japans, and Enamels, Not Specified by Kind," \$35,297,000 for "Other Primary Products," and \$2,615,000 for "Other Paints, N.E.C."

<sup>16</sup>See Industry 2822, "Intermediates and Organic Colors," for information on lakes and toners.

<sup>17</sup>Codes 2852141 and 2852151 have been combined with code 2852198.

<sup>18</sup>Code 2852251 has been combined with code 2852298.

<sup>19</sup>Code 2852251 has been combined with code 2852398.

<sup>20</sup>Code 2852311 has been combined with code 2852319.

<sup>21</sup>Code 2852313 has been combined with code 2852319.

<sup>22</sup>Code 2852351 has been combined with code 2852398.



## MANUFACTURES—INDUSTRY STATISTICS

Table 6B.—VALUE OF PRODUCT CLASSES SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, BY DIVISIONS AND STATES FOR 1954,  
AND UNITED STATES TOTALS FOR EARLIER YEARS

(In thousands of dollars. Statistics are shown for selected product classes which are economically significant and production of which is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (Table 2) and they are not miscellaneous or "not specified by type" classes. For each product class, States are listed only if the value of shipments is more than \$1 million and the figure does not disclose individual company information. Additional States which had shipments of more than \$1 million of the individual product classes are listed in footnote 1)

Product class, region, and State <sup>1</sup>	Value of shipments	Product class, region, and State <sup>1</sup>	Value of shipments	Product class, region, and State <sup>1</sup>	Value of shipments
<u>Paints, varnishes, lacquers, trade sales products<sup>2</sup> (28511)</u>		<u>Paints, varnishes, lacquers, trade sales products<sup>2</sup> (28511)—Continued</u>		<u>Industrial product finishes and special coatings<sup>2</sup> (28512)</u>	
1954 United States, total.....	735,990	East South Central.....	28,300	East North Central.....	277,880
New England.....	31,356	Kentucky.....	17,729	Ohio.....	75,696
Vermont.....	285	Tennessee.....	6,618	Indiana.....	12,608
Massachusetts.....	26,443	West South Central.....	37,467	Illinois.....	87,252
Middle Atlantic.....	201,712	Louisiana.....	5,361	Michigan.....	94,074
New York.....	59,887	Oklahoma.....	2,667	Wisconsin.....	8,250
New Jersey.....	88,352	Texas.....	29,438	West North Central.....	42,819
Pennsylvania.....	53,473	Mountain.....	6,823	Minnesota.....	5,781
East North Central.....	239,314	Colorado.....	4,635	Iowa.....	15,000
Ohio.....	67,587	Pacific.....	96,964	Missouri.....	20,538
Indiana.....	13,803	Washington.....	4,050	South Atlantic.....	23,688
Illinois.....	125,395	Oregon.....	4,589	Maryland.....	7,273
Michigan.....	17,137	California.....	88,325	Virginia.....	2,472
Wisconsin.....	15,392	Industrial product finishes and special coatings <sup>2</sup> (28512)		North Carolina.....	6,902
West North Central.....	54,631	1954 United States, total.....	703,789	Georgia.....	4,201
Minnesota.....	10,381	New England.....	18,015	East South Central.....	26,877
Iowa.....	8,643	Massachusetts.....	10,408	Kentucky.....	24,335
Missouri.....	34,511	Connecticut.....	6,441	Tennessee.....	1,263
South Atlantic.....	39,292	Middle Atlantic.....	235,604	West South Central.....	13,052
Maryland.....	15,245	New York.....	54,888	Louisiana.....	973
Virginia.....	2,814	New Jersey.....	118,963	Oklahoma.....	133
North Carolina.....	3,274	Pennsylvania.....	61,753	Texas.....	11,946
Georgia.....	11,675			Mountain.....	468
Florida.....	4,104			Pacific.....	65,386
				Washington.....	1,264
				Oregon.....	2,524
				California.....	61,598

<sup>1</sup>For the specified product classes, shipments of over \$1 million were reported for the States listed but the exact figures are withheld to avoid disclosure of individual company figures: 28511, Rhode Island, District of Columbia, Alabama, and Utah; 28512, Kansas, West Virginia, and Mississippi.

<sup>2</sup>Comparable data for previous years unavailable, see text.

TABLE 7 NOT APPLICABLE TO THIS BULLETIN

Table 8.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY INDUSTRY SPECIALIZATION AND PRIMARY PRODUCT CLASS SPECIALIZATION, FOR THE UNITED STATES: 1954

(This table presents selected statistics for establishments classified according to their degree of specialization in products primary to the industry. The establishments are classified in two ways: (1) by industry specialization—the degree of specialization in all primary products of the industry; and (2) by product-class specialization—the degree of specialization in the largest product class of the establishment. The degree of "industry specialization" for an establishment represents the ratio of its primary product shipments to its total product shipments, primary and secondary. The degree of "product-class specialization" for an establishment represents the ratio of its largest product class shipments to its total product shipments, primary and secondary. Data are not shown for some industries, product classes, and specialization ranges for a variety of reasons, consequently, detailed figures frequently do not add to the totals. See Introduction for detailed explanation.)

Ind. or product class No.	Industry or product class by percent of specialization	Establishments, number	All employees		Production workers			Value added by manufacture	Cost of materials, etc.	Value of shipments
			Number	Payroll	Number	Man-hours	Wages			
2851	PAINTS AND VARNISHES (entire industry).....	1,469	56,580	263,887	33,865	67,660	127,640	642,656	851,816	1,494,399
	Establishments with:									
	90% or more specialization.....	1,294	46,422	215,830	27,550	54,858	102,884	511,708	690,791	1,202,427
	75-89% specialization.....	82	5,722	27,026	3,542	7,115	14,108	81,337	90,929	172,267
	50-74% specialization.....	72	3,939	19,137	2,496	5,147	9,760	44,386	66,095	110,482
	All other <sup>1</sup> .....	21	496	1,894	275	539	885	5,223	3,999	9,223
28511	Paints, varnishes, lacquers, trade sales products:									
	All establishments specializing in product class.	772	32,664	145,142	19,281	38,567	70,575	362,936	467,335	830,199
	Establishments with:									
	90% or more specialization.....	489	11,336	50,445	6,529	12,996	23,091	116,336	151,387	267,651
	75-89% specialization.....	114	8,292	36,456	5,070	10,144	18,630	95,643	122,019	217,663
	50-74% specialization.....	154	11,917	53,222	7,088	14,260	26,707	140,106	179,655	319,762
	Less than 50% specialization.....	15	1,119	5,018	594	1,165	2,146	10,849	14,272	25,122
28512	Industrial product finishes, and special coatings:									
	All establishments specializing in product class.	517	23,005	115,220	13,925	27,762	54,886	272,025	373,613	645,638
	Establishments with:									
	90% or more specialization.....	340	10,725	54,779	6,387	12,738	24,632	118,183	181,407	299,590
	75-89% specialization.....	74	4,989	25,873	3,107	6,303	12,784	64,710	83,009	147,719
	50-74% specialization.....	87	4,715	22,648	2,952	5,945	11,481	59,307	76,547	135,854
	Less than 50% specialization.....	16	2,575	11,920	1,477	2,774	5,988	29,824	32,649	62,473
2852	INORGANIC COLOR PIGMENTS (entire industry).....	104	12,182	54,755	9,042	18,220	37,193	196,901	174,493	371,395
	Establishments with:									
	90% or more specialization.....	75	8,099	35,598	6,115	12,176	25,050	130,811	114,112	244,924
	75-89% specialization.....	9	1,066	4,397	768	1,541	2,907	10,483	14,130	24,614
	50-74% specialization.....	11	2,245	11,241	1,549	3,191	6,719	44,798	31,576	76,374
	All other <sup>1</sup> .....	9	771	3,517	609	1,311	2,516	10,807	14,674	25,482
28521	White opaque pigments:									
	All establishments specializing in product class.	24	7,542	34,650	5,593	11,125	24,149	152,161	95,789	247,950
	Establishments with:									
	90% or more specialization.....	17	5,687	25,502	4,267	8,442	18,226	108,596	63,898	172,495
	75-89% specialization.....	3	718	2,942	554	1,102	2,121	9,346	13,195	22,542
28522	Chrome colors:									
	All establishments specializing in product class.	11	1,263	5,913	876	1,839	3,400	12,089	17,232	29,321
	Establishments with:									
	90% or more specialization.....	5	105	425	92	157	273	909	1,308	2,218
28523	Other inorganic pigments, including white extender:									
	All establishments specializing in product class.	59	3,077	12,853	2,340	4,728	8,727	28,945	57,621	86,567
	Establishments with:									
	90% or more specialization.....	43	1,556	6,675	1,154	2,355	4,271	14,078	29,982	44,061

<sup>1</sup>This class includes data for establishments with less than 50% specialization in the primary products of the industry and establishments engaged exclusively in contract work defined in the industry. Miscellaneous small statistical adjustments are also included.

## MANUFACTURES--INDUSTRY STATISTICS

Table 9.--VALUE OF SHIPMENTS OF PAINTS, VARNISHES AND LACQUERS, BY CLASS OF CUSTOMER; 1954

Item	Shipments including interplant transfers			
	Trade sales products, product class code 28511		Industrial product finishes, product class code 28512	
	Value (\$1,000)	Percent of total	Value (\$1,000)	Percent of total
Shipments by all Manufacturing establishments.....	735,990	xxx	703,789	xxx
Shipments by establishments reporting class of customer data, total..	668,357	100	605,136	100
Shipments to retail stores of the same company.....	155,809	23	30,183	5
Transfers to other manufacturing plants of the same company.....	24,130	4	37,478	6
Shipments to wholesalers, distributors, jobbers, supply houses, cooperatives, etc.....	174,072	26	84,097	14
Shipments to retailers, including retail chains, mail-order houses, department stores, and independent stores.....	199,900	30	22,351	4
Shipments to industrial, commercial, institutional and other types of business users, such as railroads, hotels, utilities (except contractors).....	42,203	6	395,386	65
Shipments to painting contractors.....	22,948	4	9,379	2
Shipments to the Federal Government.....	2,768	(2)	10,963	2
Shipments to State and local Governments.....	3,359	1	5,179	1
Shipments to household consumers and farmers.....	28,203	4	705	(2)
Export transactions.....	14,965	2	9,415	1

Z Less than 0.05 percent.

## Gum and Wood Chemicals; Fertilizers

This report shows 1954 Census of Manufactures statistics for establishments classified in each of the following industries:

Code	Title
2861	Hardwood Distillation
2862	Softwood Distillation
2863	Gum Naval Stores
2865	Tanning and Dyeing Materials
2871	Fertilizers
2872	Fertilizers, Mixing Only

Excluded from the industries covered in this report are plants primarily engaged in producing basic organic or inorganic chemicals; those manufacturing primarily synthetic dyes and synthetic organic chemicals including tanning materials and urea are classified in Industry 2829, Organic Chemicals, Not Elsewhere Classified, and fertilizer materials such as ammonium nitrate and ammonium sulfate, in Industry 2819, Inorganic Chemicals, Not Elsewhere Classified. Plants primarily engaged in extracting and preparing potassium salts are classified in Mineral Industries.

### 2861—Hardwood Distillation

This industry comprises establishments primarily engaged in the destructive distillation of hardwood resulting in the production of charcoal and pyroligneous acid or raw liquor. Such establishments may be engaged in further distillation and washing processes resulting in the production of tars, oils, acids, and alcohols, such as hardwood pitch, wood creosote, natural acetic acid, wood oils, calcium acetate, ethyl acetate, methanol, and methyl acetone.

Establishments primarily engaged in manufacturing synthetic acetic acid and methanol are classified in Industry 2829, Organic Chemicals, N.E.C., and establishments primarily engaged in producing activated charcoal are classified in Industry 2819, Inorganic Chemicals, N.E.C. For a detailed list of primary products of Industry 2861, refer to table 6A, product codes 2861011 to 2861098.

The value of shipments of Industry 2861, Hardwood Distillation, in 1954 totaled \$16 million. This included shipments of primary products (hardwood distillation products) valued at about \$15 million, shipments of secondary products valued at \$1 million, and a negligible amount for miscellaneous receipts.

Industry 2861 shipments of hardwood distillation products in 1954 represented 75 percent of its total product shipments (primary and secondary). In 1947, this primary products specialization ratio was 94 percent. Secondary products shipped by Industry 2861 in 1954 consisting mainly of synthetic organic chemicals, totaled \$1 million.

Industry 2861 shipments of hardwood distillation products in 1954 represented 100 percent of these products valued at \$15 million shipped by all industries. In 1947, this "coverage ratio" was 96 percent.

While various recovery processes are used by the plants classified in the wood distillation industry, the resulting products (acetic acid, methanol and charcoal) are generally jointly produced. A few plants, however, reported the production only of charcoal by the older kiln or pit method in which no by-products are obtained. Methanol is generally refined in the same plants producing the crude products but a portion is sold for refining elsewhere or refined on a toll basis.

With the increased production synthetically of acetic acid and methanol, the wood distillers market has greatly decreased. In 1947 approximately 7 percent of acetic acid production was by wood distillation compared with 87 percent in 1927. The com-

parable 1954 percentage is 4. Data showing the consumption of hardwoods in distillation appear in Table 7, Materials Consumed by Kind.

Monthly production data for acetic acid and methanol, natural as well as synthetic, appear in Facts for Industry series 6-2, "Organic Chemicals," published by the U. S. Tariff Commission; statistics for annual sales of natural acetic acid and methanol appear in Facts for Industry series M19A, "Inorganic Chemicals and Gases," and for the sales of synthetic grades in the U. S. Tariff Commission publication, "Synthetic Organic Chemicals, Production and Sales." The totals appearing in this report differ slightly from those published in the above reports because of minor reporting differences.

### 2862—Softwood Distillation

This industry comprises establishments primarily engaged in softwood distillation, resulting in the production of wood naval stores either by the steam-and-solvent process or by the destructive distillation process. Important products of this industry include wood turpentine, wood rosin, pine oil, pitch, tar, tar oils, charcoal, and wood creosote. This industry also includes establishments primarily engaged in manufacturing charcoal from softwood and sawdust in charcoal kilns, and pits, which do not recover the distillation products.

Establishments primarily engaged in manufacturing turpentine and rosin by distillation of pine gum are classified in Industry 2863, Gum Naval Stores. Pulp mills producing sulfate wood naval stores (sulfate wood turpentine and tall oil) as byproducts of the production of pulp by the sulfate process are classified in Industry 2611, Pulp Mills. For a detailed list of the primary products of Industry 2862, refer to Table 6A, product codes 2862011 to 2862098.

The value of shipments of Industry 2862, Softwood Distillation, in 1954 totaled \$89 million. This included shipments of primary products (softwood distillation products) valued at over \$60 million, shipments of secondary products valued at over \$28 million, and a negligible amount for miscellaneous receipts.

Industry 2862 shipments of softwood distillation products in 1954 represented 68 percent of its total product shipments (primary and secondary). In 1947, this primary product specialization ratio was 83 percent. This decline in primary product specialization reflects the "upgrading," particularly of wood rosin, into products which are classified as primary to other industries. These consist mainly of chemical specialties, plastics and resin materials as well as organic agricultural chemicals included in the total of \$28 million for secondary products.

Industry 2862 shipments of softwood distillation products in 1954 represented 98 percent of these products valued at \$62 million shipped by all industries. This coverage ratio was 99 percent in 1947.

Establishments classified in Industry 2862 manufacture softwood distillation products either by the steam-and-solvent process or by the destructive distillation process. While each of these processes result in the production of coproducts, turpentine, wood rosin, pine oil, as well as charcoal, the data for charcoal shown in Table 6A include a small amount produced in kilns where the other distillation products are not recovered.

The Agricultural Marketing Service, United States Department of Agriculture, publishes monthly data showing the production and stocks of gum and wood turpentine and rosin and miscellaneous naval stores and semi-annual reports showing consumption by industries and stocks at industrial plants and distribution points. The totals appearing in this report differ



slightly from those published by that agency because of minor reporting differences.

#### 2863—Gum Naval Stores

This industry comprises establishments primarily engaged in manufacturing turpentine and rosin by the distillation of pine gum. Establishments primarily engaged in manufacturing turpentine and rosin by wood distillation are classified in Industry 2862, Softwood Distillation, and those engaged in the gathering of pine gum are classified in Forestry Industries. For a detailed list of primary products of Industry 2863, refer to Table 6A, product codes 2863011 to 2863098.

The value of shipments of Industry 2863, Gum Naval Stores, in 1954 totaled \$25 million. This included shipments of primary products (gum naval stores) valued at \$22 million, shipments of secondary products valued at \$3 million, and a negligible amount for miscellaneous receipts.

Industry 2863 shipments of gum naval stores (primary products) in 1954 represented 88 percent of its total product shipments (primary and secondary). In 1947, this primary product specialization ratio was 98 percent. Secondary products shipped by this industry in 1954 consisting mainly of chemical specialties, totaled \$3 million.

Industry 2863 shipments of gum naval stores in 1954 represented 95 percent of these products valued at \$23 million shipped by all industries. In 1947, this coverage ratio was 99 percent.

In the manufacture of gum naval stores, two types of stills are utilized, namely, a fire still or a steam still. The older type fire stills are smaller, less efficient and more primitive than steam stills which have practically replaced them. Only 5 of the 755 establishments engaged in the 1939 production of gum naval stores were steam stills and these accounted for approximately 15 percent of the total output. In 1947, of the 132 establishments primarily engaged in this operation 32 were steam stills accounting for 85 percent of the output. The 1947 statistics are limited to information collected only from steam stills; fire stills were not covered in the 1947 Census. By 1954 there were less than 10 fire stills operated in the United States and practically all of the U. S. production was accounted for by steam (central) stills.

#### 2865—Tanning and Dyeing Materials

This industry comprises establishments primarily engaged in manufacturing solid and liquid tanning extracts from wood, bark, and other vegetable materials, as well as establishments primarily engaged in manufacturing natural dyeing materials from wood, bark, and other vegetable and animal materials. Establishments primarily engaged in manufacturing synthetic dyeing materials are classified in Industry 2822, Intermediates and Organic Colors. Synthetic tanning materials are classified in Industry 2829, Organic Chemicals, Not Elsewhere Classified, chromium compounds are classified in Industry 2819, Inorganic Chemicals, Not Elsewhere Classified, and leather assistants and finishes in Industry 2843, Sulfonated Oils and Assistants.

As indicated above, the (S.I.C.) title and content of Industry 2865 has been amended by the Bureau of the Budget to include former Industry 2864, Natural Dyeing Materials. For a detailed list of primary products of Industry 2865 refer to Table 6A, product codes 2865111 to 2865251.

The value of shipments of Industry 2865, Tanning and Dyeing Materials, in 1954 totaled about \$14 million. This included shipments of primary products (natural tanning and dyeing materials) valued at \$11 million, shipments of secondary products valued at \$2 million, and miscellaneous receipts (mainly receipts from sale of scrap and salable refuse) of less than \$1 million.

Industry 2865 shipments of primary products in 1954 represented 83 percent of its total product shipments (primary and secondary). In 1947, this primary product specialization ratio was 88 percent.

Industry 2865 shipments of natural tanning and dyeing materials in 1954 represented 92 percent of these products valued

at \$12 million shipped by all industries. In 1947, this coverage ratio was 78 percent.

#### 2871—Fertilizers (Full Standard Industrial Classification Title: Fertilizers, Manufacturing and Mixing)

This industry comprises establishments primarily engaged in manufacturing mixed fertilizers (mixtures containing nitrogen, phosphoric acid ( $P_2O_5$ ) or potash), from one or more fertilizer materials produced in the same establishment. Sulfuric acid plants operated in conjunction with fertilizer plants and separately reported are classified in Industry 2811, Sulfuric Acid. Establishments primarily engaged in manufacturing fertilizer materials, such as muriate and sulfate of potash, or nitrogenous compounds, (such as ammonium sulfate and ammonium nitrate), but which are not engaged in manufacturing mixed fertilizers, are classified in Industry 2819, Inorganic Chemicals, N.E.C. Establishments primarily engaged in manufacturing mixed fertilizers from purchased fertilizer materials are classified in Industry 2872, Fertilizers, Mixing Only; and establishments primarily engaged in mixing, milling or otherwise preparing natural potassium, boron, or sodium compounds (other than common salt) are classified in Mineral Industry 1474, Potash, Soda, and Borate Minerals.

Rendering plants manufacturing tankage, meat scraps, bone meals, and dried blood for fertilizer, are classified in Industry 2886, Grease and Tallow, and plants primarily engaged in manufacturing inoculants for legumes in Industry 2899, Miscellaneous Chemical Products. Municipal sewage disposal plants which make activated sewage sludge are not included in the 1954 (Economic) Censuses.

For a detailed list of primary products of Industry 2871, refer to Table 6A, product codes 2871111 to 2871371.

The value of shipments of Industry 2871, Fertilizers, in 1954 totaled over \$533 million. This included shipments of primary products (fertilizers, manufactured and mixed) valued at \$512 million, shipments of secondary products valued at \$19 million, and miscellaneous receipts of \$3 million. Receipts for merchandising (products bought and resold without further manufacture or processing) valued at \$56 million are excluded from the \$533 million value of shipments of Industry 2871. Data relating to these merchandising receipts are also excluded from the cost of materials and value added, but these activities are reflected in other detailed industry statistics, mainly employment and inventory.

Industry 2871 shipments of fertilizers in 1954 represented 96 percent of its total product shipments (primary and secondary). In 1947, this primary product specialization ratio was 92 percent. Secondary products shipped by this industry in 1954 consisted mainly of sulfuric acid, \$7 million; industrial inorganic chemicals, \$5 million; insecticides and fungicides for agricultural use, \$4 million; and other products, \$2 million.

Industry 2871 shipments of fertilizer (manufactured and mixed) in 1954 represented 60 percent of these products valued at \$855 million shipped by all manufacturing industries. In 1947, this coverage ratio was also 60 percent. The principal other industry shipping fertilizers in 1954 consisted of Industry 2872, Fertilizers, Mixing Only which includes plants mixing fertilizers from purchased materials.

The manufacturing activities of Industry 2871, particularly those in regard to the mixing of fertilizers, are seasonal. Measures of this seasonality are provided by the employment statistics appearing in Table 3, Detailed Statistics for the United States. While these employment data are for the calendar year 1954, the majority of manufacturers furnished commodity and other information for a fiscal year generally ending June 30, 1954.

The data appearing in Table 7, Materials Consumed, By Kind, are limited to the quantities used in the manufacture of superphosphate and mixed fertilizers by plants primarily engaged in such activities and whose average employment totaled six or more. Because of the increasing use of liquid fertilizers, for which no separate data were compiled, the quantities shown for

1954 as "fillers" are relatively less than the figures appearing for 1947.

The data shown in Table 6C represent shipments and production by state of origin. Thus, they differ in concept from the figures published by the Bureau of Plant Industry, Soils and Agricultural Engineering, United States Department of Agriculture, which represent the state destination of shipments (or consumption within the state).

Monthly data showing manufacturers' stocks, production, receipts, shipments, and consumption of normal superphosphate, concentrated superphosphate and wet-base goods appear in the Census Bureau's Facts for Industry series M19D, "Superphosphate." The figures appearing in this report differ slightly from the 1954 annual totals appearing in the Facts for Industry series because the Census of Manufactures statistics include some plants reporting on a fiscal year basis.

#### 2872—Fertilizers, Mixing Only

This industry comprises establishments primarily engaged in mixing fertilizers from purchased fertilizer materials. Establishments primarily engaged in manufacturing mixed fertilizers from one or more fertilizer materials produced in the same establishment are classified in Industry 2871, Fertilizers. For a detailed list of primary products of Industry 2872, refer to Table 6A, product codes 287111 to 2871171.

The value of shipments of Industry 2872, Fertilizer, Mixing Only, in 1954 totaled \$329 million. This included shipments of primary products (mixed fertilizers, complete and incomplete mixtures) valued at \$310 million, shipments of secondary products valued at \$17 million, and miscellaneous receipts \$2 million. Receipts for merchandising (products bought and resold without further manufacture or processing) valued at \$85 million are excluded from the \$329 million value of shipments of Industry 2872. Data relating to these merchandising receipts are also excluded from the cost of materials and value added, but these activities are reflected in other detailed industry statistics, mainly employment and inventory.

Industry 2872 shipments of mixed fertilizers in 1954 represented 95 percent of its total product shipments (primary and secondary). In 1947, this primary product specialization ratio was 98 percent. Secondary products shipped by this industry in 1954 consisted mainly of insecticidal and fungicidal preparations \$4 million and inorganic chemicals, \$1 million.

Industry 2872 shipments of mixed fertilizers in 1954 represented 44 percent of mixed fertilizer valued at \$707 millions shipped by all manufacturing industries. In 1947 this coverage ratio was 47 percent. The principal other industry shipping fertilizers consisted of Industry 2871 Fertilizers which includes plants manufacturing and mixing fertilizers.

The general statistics (employment, payrolls, value of shipments, cost of materials, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products, and, for that matter, their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (Tables 1-4) with product statistics (Table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in Table 5A which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry made as secondary products by establishments classified in other industries.



## MANUFACTURES--INDUSTRY STATISTICS

Table 1.—GENERAL STATISTICS FOR THE UNITED STATES: 1954 AND EARLIER YEARS

(For explanation of column captions see Introduction)

Industry and census year	Establish- ments, number	All employees		Production workers		Value added by <sup>2</sup> manufacture (\$1,000)	Cost of materials, <sup>3</sup> etc. (\$1,000)	Value of shipments <sup>4</sup> (\$1,000)
		Number <sup>1</sup>	Payroll (\$1,000)	Number <sup>1</sup>	Wages (\$1,000)			
Hardwood distillation (S.I.C. 2861):								
1954.....	34	1,627	5,222	1,384	4,114	7,419	8,586	16,006
1952 <sup>5</sup> .....	(NA)	1,233	3,660	1,011	2,843	5,157	5,609	10,766
1951 <sup>5</sup> .....	(NA)	1,259	3,458	1,027	2,651	6,103	6,910	13,013
1949 <sup>5</sup> .....	(NA)	1,235	3,032	1,103	2,404	4,075	5,248	9,323
1947.....	28	1,879	4,157	1,624	3,328	7,528	6,275	13,803
1939.....	43	2,091	2,090	1,770	1,531	2,915	3,928	6,843
1937.....	39	2,385	2,349	2,108	1,864	3,819	5,164	8,983
1935.....	42	2,225	1,977	1,918	1,452	3,058	4,352	7,410
1933.....	38	(NA)	(NA)	1,366	826	2,246	2,638	4,884
1929.....	66	3,197	4,374	2,897	3,504	8,725	11,027	19,752
1921 <sup>6</sup> .....	93	(NA)	(NA)	1,790	1,666	2,645	6,053	8,698
Softwood distillation (S.I.C. 2862):								
1954.....	27	4,431	17,662	3,698	13,260	47,374	41,275	88,650
1949 <sup>5</sup> .....	(NA)	4,213	12,551	3,749	10,336	25,668	35,152	60,820
1947.....	31	4,567	11,798	4,065	9,640	46,026	26,895	72,921
1939.....	25	2,924	2,887	2,353	1,867	7,590	6,524	14,114
1937.....	21	2,639	2,742	2,359	2,160	10,999	6,163	17,162
1935.....	18	2,089	1,781	1,890	1,364	4,990	3,571	8,561
1933.....	16	1,516	1,132	1,365	956	3,716	2,435	6,151
1929.....	25	2,017	2,399	1,752	1,789	6,078	3,764	9,842
1921 <sup>6</sup> .....	15	431	461	340	248	305	675	980
Gum naval stores (S.I.C. 2863):								
1954 <sup>7</sup> .....	26	516	1,289	423	902	2,473	22,365	24,840
1949 <sup>5</sup> .....	(NA)	720	1,930	611	1,414	5,432	30,400	35,832
1947.....	31	638	1,385	512	947	2,634	36,397	38,508
1939 <sup>7</sup> .....	755	1,892	856	971	334	3,966	13,396	17,362
1937 <sup>7,8</sup> .....	993	2,814	1,219	1,506	350	6,355	22,670	29,025
Tanning and dyeing materials (S.I.C. 2865):								
1954.....	30	670	2,507	545	1,594	4,785	9,032	13,818
1949 <sup>5</sup> .....	(NA)	1,103	3,131	904	2,266	4,913	10,087	15,000
1947.....	27	1,363	3,132	1,169	2,393	6,608	11,167	17,775
1939 <sup>5</sup> .....	35	(NA)	(NA)	1,274	1,295	6,252	6,019	12,271
Fertilizers (S.I.C. 2871):								
1954.....	260	19,728	73,048	15,728	53,431	171,297	362,150	533,448
1953 <sup>5</sup> .....	(NA)	22,018	77,470	17,207	54,702	179,606	363,770	543,376
1952 <sup>5</sup> .....	(NA)	23,046	74,897	18,550	54,709	159,866	372,308	533,432
1951 <sup>5</sup> .....	(NA)	22,759	67,689	18,524	49,449	165,839	315,654	482,751
1950 <sup>5</sup> .....	(NA)	19,232	50,033	15,481	36,737	108,342	226,944	336,480
1949 <sup>5</sup> .....	(NA)	19,887	51,429	16,692	38,129	117,844	242,341	360,073
1947.....	187	20,357	47,928	17,359	37,235	126,919	197,558	312,229
1939 <sup>10</sup> .....	171	(NA)	(NA)	11,028	9,319	32,172	68,117	100,289
Fertilizers, mixing only (S.I.C. 2872):								
1954.....	580	12,040	38,480	8,866	23,483	81,125	248,204	329,328
1952 <sup>5</sup> .....	(NA)	12,892	36,655	9,619	22,281	89,277	242,258	331,309
1951 <sup>5</sup> .....	(NA)	12,562	33,522	9,675	20,618	79,257	210,926	290,956
1950 <sup>5</sup> .....	(NA)	12,161	28,420	9,220	17,299	62,936	188,372	251,074
1949 <sup>5</sup> .....	(NA)	12,105	27,448	9,440	16,893	60,708	178,577	239,182
1947.....	518	11,615	23,772	9,251	15,607	60,007	136,479	193,318
1939 <sup>10</sup> .....	592	(NA)	(NA)	7,779	4,412	25,069	60,632	85,701
Total for fertilizer and fertilizers, mixing only: <sup>10</sup>								
1954.....	840	31,768	111,528	24,594	76,914	252,422	610,354	862,776
1953 <sup>5</sup> .....	(NA)	34,789	116,304	26,655	80,525	284,131	(NA)	(NA)
1952 <sup>5</sup> .....	(NA)	35,938	111,552	28,169	76,990	249,143	614,566	864,741
1951 <sup>5</sup> .....	(NA)	35,321	101,211	28,199	70,067	245,096	526,580	773,707
1950 <sup>5</sup> .....	(NA)	31,393	78,453	24,701	54,036	171,278	415,316	587,554
1949 <sup>5</sup> .....	(NA)	31,992	78,877	26,132	55,022	178,552	420,918	599,255
1947.....	705	31,972	71,700	26,610	52,842	186,926	334,037	505,547
1939.....	763	(NA)	(NA)	18,807	13,731	57,241	128,749	185,990
1937.....	729	(NA)	(NA)	20,391	15,027	64,993	129,136	194,129
1935.....	670	20,696	17,048	17,473	10,967	47,004	93,382	140,386
1933.....	522	15,379	11,159	13,063	7,274	25,886	69,053	94,939
1929.....	638	24,977	27,282	20,926	17,884	72,710	159,801	232,511
1921.....	588	21,274	25,846	16,898	16,026	35,397	144,978	180,375

See footnotes at end of table.

Table 1.—GENERAL STATISTICS FOR THE UNITED STATES: 1954 AND EARLIER YEARS—Continued

(For explanation of column captions see Introduction)

Industry and census year	Establishments, number	All employees		Production workers		Value added by <sup>2</sup> manufacture (\$1,000)	Cost of materials, <sup>3</sup> etc. (\$1,000)	Value of shipments <sup>4</sup> (\$1,000)
		Number <sup>1</sup>	Payroll (\$1,000)	Number <sup>1</sup>	Wages (\$1,000)			
Total for fertilizer and fertilizers, mixing only <sup>10</sup> —Continued								
1919.....	600	32,303	36,935	26,296	25,363	96,103	185,041	281,144
1914.....	784	27,928	17,774	22,815	10,532	45,241	107,955	153,196
1909.....	550	21,627	11,883	18,310	7,477	34,438	69,522	103,960
1899.....	422	13,293	6,310	11,581	4,185	15,699	28,958	44,657

NA Not available.

<sup>1</sup>For the period 1949-1954, the figures are based on employment for the payroll periods ending nearest the 15th of March, May, August and November. However, in the case of the "Fertilizer" industries a different method was used for 1954; all employees represents the average of 12 monthly figures; production workers was calculated by subtracting from the all employees total the average number of nonproduction employees for March, May, August and November. For 1947, they represent the average of 12 monthly figures. For earlier years, the production worker average was calculated as in 1947, but the all employees figure represents the sum of the annual average number of production workers and the number of nonproduction workers reported for one payroll period (usually in October).

<sup>2</sup>Value of products less cost of materials, supplies, fuel, electric energy and contract work. See Introduction, "Value Added by Manufacture." For the "Gum naval stores (steam distilled)" and the "Fertilizer" Industries, 1947 value added by manufacture does not equal the published value of products shipped less cost of materials etc. because an estimated value of production was used in the calculation in place of value of products shipped. Since the 1949-1952 figures are estimates derived from 1947 base totals, the same inequality may exist for these years.

<sup>3</sup>Figures for years prior to 1935 do not include cost of contract work.

<sup>4</sup>For 1947-1954, value of shipments; for all other years, value of production except in the case of the "Hardwood distillation" industry for 1929 where the figures represent value of shipments. See Introduction, "Value of Shipments."

<sup>5</sup>The figures for 1949-1953 represent estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period. Estimates with a standard error in excess of 15 percent generally have been omitted from this table.

<sup>6</sup>"Hardwood distillation" and "Softwood distillation" formerly were combined in a single industry. Separate figures are therefore not available prior to 1921.

<sup>7</sup>Includes data for fire stills.

<sup>8</sup>The figures for years prior to 1937 are not sufficiently comparable with those for later years to be shown in this table because of differences in (a) the treatment of employees engaged in the care of turpentine forests and in the gathering and marketing of gum, (b) the definition of cost of materials and value added, and (c) the coverage of the industry in certain years.

<sup>9</sup>No comparable figures are available for prior years.

<sup>10</sup>The returns for 1939 have been retabulated to provide figures comparable with those for 1947. "Fertilizers" and "Fertilizers (mixing only)" formerly constituted a single classification. The separate industry figures shown for 1939-1954 have been combined in order that statistics can be shown for the entire period 1899-1954.



## MANUFACTURES—INDUSTRY STATISTICS

Table 2.—GENERAL STATISTICS BY REGIONS AND STATES: 1954 AND 1947  
(For explanation of column captions see Introduction)

Industry, region, and State <sup>1</sup>	1954										1947		
	Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
	Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
Hardwood distillation (S.I.C. 2861), total.	34	10	1,627	5,222	1,384	2,896	4,114	7,419	8,586	16,006	491	1,879	7,528
Northeast and North Central.	26	7	1,139	3,605	984	2,027	2,915	4,674	6,060	10,735	(D)	(D)	(D)
South and West.....	8	3	488	1,617	399	869	1,198	2,745	2,525	5,271	(D)	(D)	(D)
Softwood distillation (S.I.C. 2862), total.	27	19	4,431	17,662	3,698	7,886	13,260	47,374	41,275	88,650	6,662	4,567	46,026
Northeast and North Central.	4	...	6	8	5	6	8	19	14	33	(D)	(D)	(D)
South and West.....	23	19	4,424	17,653	3,692	7,878	13,252	47,355	41,259	88,615	(D)	(D)	(D)
Mississippi.....	6	6	1,676	6,688	1,395	2,971	4,930	15,888	15,955	31,843	2,358	1,745	16,763
Louisiana.....	6	6	940	3,816	796	1,750	2,883	8,479	8,034	16,513	1,149	833	5,919
Gum naval stores (S.I.C. 2863), total.	26	7	516	1,289	423	927	902	2,473	22,365	24,840	119	638	2,634
South.....	26	7	516	1,289	423	927	902	2,473	22,365	24,840	119	638	2,634
Tanning and dyeing materials (S.I.C. 2865), total.....	30	9	670	2,507	545	1,054	1,594	4,785	9,032	13,818	469	1,363	6,608
Northeast and North Central.	21	5	350	1,521	258	517	827	3,256	6,109	9,366	398	487	3,861
New Jersey.....	7	2	116	515	91	191	274	1,079	1,709	2,789	150	173	(D)
South and West.....	9	4	320	985	286	536	767	1,528	2,923	4,452	69	876	2,747
Fertilizers (S.I.C. 2871), total.....	260	215	19,728	73,048	15,728	34,527	53,431	171,297	362,150	533,448	33,762	20,357	126,919
New England.....	6	4	226	836	170	433	586	1,879	3,199	5,078	75	387	1,482
Middle Atlantic.....	9	7	1,273	5,330	992	2,156	3,971	9,305	17,952	27,258	1,900	1,490	9,671
New Jersey.....	4	4	807	3,420	633	1,376	2,604	5,342	10,745	16,088	1,661	842	5,778
East North Central.....	55	48	4,483	18,320	3,508	7,498	13,220	46,466	115,494	161,960	6,339	3,659	26,063
Ohio.....	20	18	1,670	6,595	1,278	2,802	4,622	15,885	35,283	51,168	1,628	1,673	11,595
Indiana.....	9	9	638	2,608	536	1,175	1,875	6,883	20,388	27,271	1,534	327	2,417
Illinois.....	17	14	1,577	6,476	1,218	2,435	4,700	17,393	42,407	59,801	2,323	(D)	(D)
West North Central.....	16	10	685	2,760	581	1,447	2,158	8,493	21,091	29,584	1,779	307	2,539
Iowa.....	4	3	216	897	184	436	753	3,349	8,756	12,105	514	115	(D)
Missouri.....	7	5	337	1,304	286	719	991	3,780	9,739	13,520	1,109	(D)	(D)
South Atlantic.....	95	85	8,231	28,734	6,745	14,896	21,461	62,563	121,057	183,620	18,197	9,948	57,531
Maryland.....	5	5	789	3,138	645	1,458	2,434	7,735	15,326	23,061	301	2,549	16,149
Virginia.....	16	13	1,263	4,198	1,080	2,387	3,348	11,451	19,762	31,213	653	1,310	7,977
North Carolina.....	17	15	1,014	3,053	818	1,714	2,126	6,615	15,276	21,891	327	1,282	7,260
Georgia.....	28	25	1,499	4,517	1,166	2,577	3,014	7,015	23,447	30,462	730	2,288	11,997
Florida.....	14	13	2,707	11,121	2,240	4,998	8,515	23,996	36,138	60,134	15,876	1,203	7,892
East South Central.....	39	37	2,163	6,561	1,793	3,993	4,850	15,769	37,035	52,805	1,320	2,573	13,624
Tennessee.....	12	12	978	3,445	813	1,839	2,501	9,161	17,753	26,914	812	1,222	(D)
Alabama.....	13	13	615	1,702	522	1,162	1,319	3,549	9,811	13,361	199	868	5,169
Mississippi.....	10	10	485	1,151	386	838	856	2,516	7,260	9,776	286	483	(D)
West South Central.....	26	20	2,071	7,948	1,562	3,268	5,517	23,623	39,975	63,599	2,480	1,473	12,723
Louisiana.....	7	7	542	1,723	411	816	1,157	3,176	7,840	11,016	(D)	620	(D)
Texas.....	12	8	1,104	4,834	852	1,773	3,483	15,612	23,775	39,387	1,867	(D)	(D)
Mountain.....	6	3	531	2,311	327	737	1,491	2,908	5,460	8,368	(D)	520	3,286
Pacific.....	8	1	63	246	46	96	173	289	885	1,174	(D)		
Fertilizers, mixing only (S.I.C. 2872), total.....	580	203	12,040	38,480	8,866	18,575	23,483	81,125	248,204	329,328	12,825	11,615	60,007
New England.....	24	9	435	1,455	313	651	894	3,091	9,516	12,606	187	593	3,674
Middle Atlantic.....	66	17	1,016	3,249	749	1,618	2,121	6,779	24,390	31,170	692	794	4,095
New Jersey.....	15	5	238	768	177	373	491	1,540	4,618	6,158	99	166	(D)

See footnotes at end of table.

Table 2.—GENERAL STATISTICS BY REGIONS AND STATES: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Industry, region, and State <sup>1</sup>	1954										1947		
	Establishments, number		All employees		Production workers			Value added by manufacture	Cost of materials, etc.	Value of shipments	Capital expenditures, new	All employees, number	Value added by manufacture
	Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)		(\$1,000)
Fertilizers, mixing only—Continued													
East North Central.....	61	23	1,238	5,007	947	2,106	3,269	13,618	39,228	52,847	4,139	1,134	(D)
Ohio.....	20	9	392	1,627	277	591	886	4,018	10,286	14,305	983	459	2,450
Indiana.....	17	6	388	1,608	306	731	1,101	4,684	14,515	19,200	1,671	375	2,722
Illinois.....	13	2	151	501	126	245	385	1,534	3,425	4,960	265	176	(D)
West North Central.....	46	18	889	3,350	687	1,557	2,315	10,053	32,304	42,357	1,615	(D)	(D)
Minnesota.....	9	5	248	1,001	191	452	717	4,187	11,979	16,166	444	48	(D)
Iowa.....	13	4	245	859	192	420	619	1,766	7,723	9,489	330	(D)	(D)
Missouri.....	6	4	178	674	144	327	466	2,108	6,454	8,563	183	...	...
Kansas.....	8	2	111	405	83	194	252	1,329	4,070	5,400	56	...	...
South Atlantic.....	222	96	5,562	15,908	4,182	8,597	9,696	31,949	97,256	129,205	2,582	6,374	30,062
Maryland.....	21	12	782	2,606	557	1,087	1,616	5,353	14,089	19,442	463	892	4,896
Virginia.....	20	14	686	2,326	489	1,096	1,433	4,173	13,103	17,277	304	942	5,358
North Carolina.....	41	20	1,148	3,007	851	1,719	1,803	7,853	18,225	26,078	358	1,019	5,200
Georgia.....	60	19	1,272	2,882	1,095	2,185	2,181	4,165	19,708	23,874	537	1,187	4,355
Florida.....	37	19	981	3,274	663	1,531	1,687	7,555	22,891	30,447	748	1,201	6,438
East South Central.....	52	15	1,031	2,735	819	1,668	1,839	5,925	19,243	25,169	1,945	1,049	4,802
Kentucky.....	12	4	277	944	214	493	648	2,583	7,802	10,385	937	236	1,250
Tennessee.....	6	2	152	409	121	250	287	820	2,543	3,364	784	(D)	(D)
Alabama.....	28	9	520	1,230	412	800	769	2,009	7,786	9,796	135	567	2,748
West South Central.....	30	11	529	1,425	419	793	913	2,506	9,417	11,924	950	545	2,790
Louisiana.....	5	3	109	309	94	173	232	335	1,954	(D)	(D)	277	(D)
Texas.....	15	5	216	640	155	316	364	1,420	4,479	5,899	385	172	(D)
Mountain.....	13	2	199	797	107	192	285	846	1,834	2,680	(D)	1,019	6,316
Pacific.....	66	12	1,138	4,552	638	1,390	2,146	6,355	15,013	21,369	(D)		

Note: Detailed figures may not add to the totals because of independent rounding.

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>General statistics for some producing States are not shown separately in the table (see INTRODUCTION "Confidentiality of Data for Individual Companies"). Such States are shown below with the number of establishments in each State for 1954 and, in parentheses, the number of employees or the employment-size range for that State for 1954.

S.I.C. 2861, Hardwood Distillation: Northeast and North Central—New Hampshire, 1 (1-19); Connecticut, 1 (1-19); New York, 2 (1-19); Pennsylvania, 6 (100-249); Ohio, 5 (20-99); Illinois, 2 (1-19); Michigan, 3 (500-999); Missouri, 6 (20-99); South and West—West Virginia, 2 (1-19); Tennessee, 2 (250-499); Arkansas, 1 (100-249); Oklahoma, 1 (1-19); California, 2 (1-19).

S.I.C. 2862, Softwood Distillation: Northeast and North Central—New Hampshire, 1 (1-19); Massachusetts, 1 (1-19); New York, 1 (1-19); Missouri, 1 (1-19); South and West—Georgia, 1 (500-999); Florida, 5 (500-999); Alabama, 3 (100-249); Texas, 1 (1-19); Washington, 1 (1-19).

S.I.C. 2863, Gum Naval Stores: South—Georgia, 19 (250-499); Florida, 4 (20-99); Alabama, 3 (20-99).

S.I.C. 2865, Tanning and Dyeing Materials: Northeast and North Central—Massachusetts, 4 (20-99); New York, 5 (20-99); Pennsylvania, 2 (100-249); Illinois, 3 (20-99); South and West—Maryland, 1 (100-249); Virginia, 2 (20-99); North Carolina, 2 (1-19); Tennessee, 2 (100-249); Texas, 1 (1-19); California, 1 (1-19).

S.I.C. 2871, Fertilizers: New England—Maine, 3 (20-99); Massachusetts, 3 (100-249); Middle Atlantic—New York, 2 (100-249); Pennsylvania, 3 (250-499); East North Central—Michigan, 5 (250-499); Wisconsin, 4 (100-249); West North Central—Nebraska, 2 (20-99); Kansas, 3 (20-99); South Atlantic—Delaware, 3 (20-99); South Carolina, 12 (500-999); East South Central—Kentucky, 4 (20-99); West South Central—Arkansas, 3 (250-499); Oklahoma, 4 (100-249); Mountain—Montana, 2 (250-499); Idaho, 2 (100-249); Utah, 2 (20-99); Pacific—Washington, 3 (20-99); California, 5 (20-99).

S.I.C. 2872, Fertilizers, Mixing Only: New England—Maine, 11 (100-249); Vermont, 1 (1-19); Massachusetts, 5 (20-99); Rhode Island, 2 (1-19); Connecticut, 5 (100-249); Middle Atlantic—New York, 23 (250-499); Pennsylvania, 28 (250-499); East North Central—Michigan, 3 (100-249); Wisconsin, 8 (100-249); West North Central—North Dakota, 1 (20-99); Nebraska, 9 (20-99); South Atlantic—Delaware, 6 (20-99); West Virginia, 1 (20-99); South Carolina, 36 (500-999); East South Central—Mississippi, 6 (20-99); West South Central—Arkansas, 8 (100-249); Oklahoma, 2 (1-19); Mountain—Idaho, 1 (1-19); Colorado, 6 (20-99); New Mexico, 1 (1-19); Arizona, 3 (20-99); Utah, 2 (20-99); Pacific—Washington, 9 (20-99); Oregon, 4 (20-99); California, 53 (1,012).

## MANUFACTURES—INDUSTRY STATISTICS

Table 3.—DETAILED STATISTICS FOR THE UNITED STATES: 1954

(For explanation of line captions see Introduction)

Item	Hardwood distillation (S.I.C. 2861) all estab- lishments	Softwood distillation (S.I.C. 2862)		Gum naval stores (S.I.C. 2863) all estab- lishments
		All estab- lishments	Establish- ments with 90% or more primary prod- uct special- ization	
Primary product specialization ratio <sup>1</sup> .....	91	68	xxx	88
Coverage ratio <sup>2</sup> .....	100	98	xxx	95
Number of establishments, total.....	34	27	18	26
With 1-19 employees.....	24	8	7	19
With 20-99 employees.....	5	7	6	7
With 100 employees and over.....	5	12	5	...
All employees:				
Number (average for year).....	1,627	4,431	1,180	516
Payroll.....\$1,000..	5,222	17,662	3,652	1,289
Production workers:				
Number (average for year).....	1,384	3,698	1,026	423
Man-hours.....	2,896	7,886	2,218	927
Wages.....\$1,000..	4,114	13,260	2,950	902
Value added by manufacture.....	7,419	47,374	7,613	2,473
Cost of materials, etc.....	8,586	41,275	7,264	22,365
Value of shipments.....	16,006	88,650	14,877	24,840
Value added by resales.....	7	133	27	222
Cost of products bought and resold.....	108	915	175	560
Sales of products bought and resold.....	115	1,048	202	782
Total inventories, beginning of year.....	3,181	16,473	2,486	1,822
Total inventories, end of year.....	3,439	15,967	2,700	2,649
Capital expenditures, new.....	(3)	6,662	754	(3)
Total employment, by month:				
January.....	(NA)	(NA)	(NA)	(NA)
February.....	(NA)	(NA)	(NA)	(NA)
March.....	1,714	4,329	1,179	432
April.....	(NA)	(NA)	(NA)	(NA)
May.....	1,607	4,436	1,196	513
June.....	(NA)	(NA)	(NA)	(NA)
July.....	(NA)	(NA)	(NA)	(NA)
August.....	1,546	4,447	1,136	570
September.....	(NA)	(NA)	(NA)	(NA)
October.....	(NA)	(NA)	(NA)	(NA)
November.....	1,642	4,514	1,208	550
December.....	(NA)	(NA)	(NA)	(NA)
Cost of materials, fuel, electricity and contract work, total.....\$1,000..	8,586	41,275	7,264	22,365
Materials, parts, containers, and supplies consumed.....	7,572	39,698	6,934	22,049
Fuels consumed, total.....	917	1,044	190	258
Bituminous coal and anthracite:				
Quantity.....1,000 short tons..	74	(4)	(4)	1
Value.....\$1,000..	701	(3)	(3)	13
Coke:				
Quantity.....1,000 short tons..	...	...	...	...
Value.....\$1,000..	...	...	...	...
Fuel oil:				
Quantity.....1,000 barrels..	8	126	(NA)	69
Value.....\$1,000..	30	320	(NA)	206
Gas:				
Quantity.....million cubic feet..	664	3,251	(NA)	49
Value.....\$1,000..	166	627	(NA)	11
Other fuels:				
Value.....do....	20	97	(NA)	28
Electric energy:				
Purchased:				
Quantity.....1,000 kwh..	8	51	13	2
Cost.....\$1,000..	82	531	138	47
Generated.....1,000 kwh..	32	118	11	...
Sold:				
Quantity.....1,000 kwh..	1	3	...	...
Value.....\$1,000..	18	12	...	...
Cost of contract work.....do....	15	2	2	11
Manufacturers' inventories:				
Beginning of year, total.....	3,181	16,473	2,486	1,822
Finished products.....	964	8,693	1,292	870
Work-in-process.....	(3)	529	(3)	(3)
Materials, supplies, fuel, etc.....	2,028	7,251	1,020	879
End of year, total.....	3,439	15,967	2,700	2,649
Finished products.....	1,353	7,281	1,209	1,448
Work-in-process.....	(3)	599	(3)	(3)
Materials, supplies, fuel, etc.....	1,882	8,087	1,303	1,113
Expenditures for plant and equipment, total.....	517	6,713	762	(3)
Capital expenditures, new.....	(3)	6,662	754	(3)
New structures and additions to plant.....	(3)	3,010	(3)	(3)
New machinery and equipment.....	(3)	3,652	(3)	(3)
Expenditures for used plant and equipment.....	(3)	(3)	(3)	(3)
Horsepower rating of power equipment at end of 1954:				
Horsepower of prime movers and electric motors driven by purchased energy, total.....1,000 hp..	19	59	5	2
Engines, etc., driving electric generators.....	14	42	3	(7)
Engines, etc., not driving electric generators.....	2	7	1	1
Electric motors driven by purchased energy.....	3	10	1	1
Electric motors driven by energy generated at the establishment.....	13	42	1	...

See footnotes at end of table.



## GUM AND WOOD CHEMICALS; FERTILIZERS

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Table 3.—DETAILED STATISTICS FOR THE UNITED STATES: 1954—Continued

Item	Tanning and dyeing materials (S.I.C. 2865)		Fertilizers (S.I.C. 2871) all estab- lishments	Fertilizers (mixing only) (S.I.C. 2872) all estab- lishments
	All estab- lishments	Establish- ments with 90% or more primary prod- uct special- ization		
Primary product specialization ratio <sup>1</sup> .....	83	xxx	96	95
Coverage ratio <sup>2</sup> .....	92	xxx	60	44
Number of establishments, total.....	30		260	580
With 1-19 employees.....	21	21	45	377
With 20-99 employees.....	7	4	158	194
With 100 employees and over.....	2	1	57	9
All employees:				
Number (average for year).....	670	386	19,728	12,040
Payroll.....\$1,000..	2,507	1,409	73,048	38,480
Production workers:				
Number (average for year).....	545	319	15,728	8,866
Man-hours.....1,000..	1,054	606	34,527	18,575
Wages.....\$1,000..	1,594	885	53,431	23,483
Value added by manufacture.....	4,785	2,357	171,297	81,125
Cost of materials, etc.....	9,032	5,388	362,150	248,204
Value of shipments.....	13,818	7,745	533,448	329,328
Value added by resales.....	122	53	6,334	11,422
Cost of products bought and resold.....	743	412	50,053	70,681
Sales of products bought and resold.....	866	465	56,387	82,103
Total inventories, beginning of year.....	4,112	2,091	95,395	68,405
Total inventories, end of year.....	2,530	1,640	93,779	65,747
Capital expenditures, new.....	(3)	(3)	33,762	12,825
Total employment, by month:				
January.....	(NA)	(NA)	18,695	11,468
February.....	(NA)	(NA)	21,592	13,564
March.....	687	391	25,114	16,033
April.....	(NA)	(NA)	25,026	16,282
May.....	683	396	21,740	13,768
June.....	(NA)	(NA)	17,429	10,851
July.....	(NA)	(NA)	16,667	9,791
August.....	662	380	17,094	10,008
September.....	(NA)	(NA)	18,110	10,366
October.....	(NA)	(NA)	18,809	10,830
November.....	649	378	18,109	10,702
December.....	(NA)	(NA)	18,351	10,817
Cost of materials, fuel, electricity and contract work, total.....\$1,000..	9,032	5,388	362,150	248,204
Materials, parts, containers, and supplies consumed.....	8,417	5,066	353,851	246,141
Fuels consumed, total.....	526	258	3,542	821
Bituminous coal and anthracite:				
Quantity.....1,000 short tons..	34	(NA)	35	16
Value.....\$1,000..	238	(NA)	292	201
Coke:				
Quantity.....1,000 short tons..	...	...	1	(4)
Value.....\$1,000..	...	...	11	(3)
Fuel oil:				
Quantity.....1,000 barrels..	35	(NA)	1,026	42
Value.....\$1,000..	115	(NA)	2,451	206
Gas:				
Quantity.....million cubic feet..	178	(NA)	2,040	318
Value.....\$1,000..	27	(NA)	437	104
Other fuels:				
Value.....do.....	146	(NA)	351	306
Electric energy:				
Purchased:				
Quantity.....1,000 kwh..	4	2	383	56
Cost.....\$1,000..	70	45	4,642	1,124
Generated.....1,000 kwh..	(6)	(6)	20	(6)
Sold:				
Quantity.....1,000 kwh..	...	...	...	...
Value.....\$1,000..	...	...	...	...
Cost of contract work.....	19	19	115	118
Manufacturers' inventories:				
Beginning of year, total.....do.....	4,112	2,091	95,395	68,405
Finished products.....do.....	1,954	1,348	38,778	30,146
Work-in-process.....do.....	(3)	(3)	15,463	8,797
Materials, supplies, fuel, etc.....do.....	2,069	685	41,154	29,462
End of year, total.....do.....	2,530	1,640	93,779	65,747
Finished products.....do.....	1,642	1,175	40,298	31,229
Work-in-process.....do.....	(3)	(3)	15,731	7,798
Materials, supplies, fuel, etc.....do.....	813	(3)	37,750	26,720
Expenditures for plant and equipment, total.....do.....	(3)	(3)	34,336	12,959
Capital expenditures, new.....do.....	(3)	(3)	33,762	12,825
New structures and additions to plant.....do.....	(3)	(3)	9,854	5,471
New machinery and equipment.....do.....	(3)	(3)	23,908	7,354
Expenditures for used plant and equipment.....do.....	(3)	(3)	574	(3)
Horsepower rating of power equipment at end of 1954:				
Horsepower of prime movers and electric motors driven by purchased energy, total.....1,000 hp..	7	4	263	81
Engines, etc., driving electric generators.....do.....	1	(7)	9	(7)
Engines, etc., not driving electric generators.....do.....	1	1	21	8
Electric motors driven by purchased energy.....do.....	5	3	233	73
Electric motors driven by energy generated at the establishment.....do.....	(7)	(7)	8	1

Note: Detailed figures may not add to the totals because of independent rounding. xxx Not applicable. NA Not available. <sup>1</sup>The specialization ratio compares the given industry's shipments of its primary products to its total shipments of all products. (The primary products are listed in Tables 5B and 6A; the first 4-digits of the product code represent the industry code to which the product is primary.) Columns containing totals for establishments with 90% or more primary product specialization are shown only for those industries having a primary product specialization of less than 90%. Data for Industry 2863, Gum Naval Stores, are withheld to avoid disclosing figures for establishments having a specialization ratio of less than 90%. <sup>2</sup>The coverage ratio measures the extent to which the total shipments of products primary to the given industry are shipped by establishments classified in that industry. <sup>3</sup>Less than \$500 thousand. <sup>4</sup>Less than 500 tons. <sup>5</sup>Less than \$5,000. <sup>6</sup>Less than 500 thousand kwh. <sup>7</sup>Less than 500 hp.



## MANUFACTURES—INDUSTRY STATISTICS

Table 4.—SELECTED STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR THE UNITED STATES: 1954

(Value figures in thousands of dollars. For explanation of line captions see Introduction. Data which cannot be shown without disclosing information for individual companies have been combined with figures for other size classes. A (D) appears in the column where the figure has been omitted and the combined figure is underlined and shown in the size-class to the left)

Ind. code	Industry and item	Total. all establishments	Establishments with an average of—									
			1-4 employees	5-9 employees	10-19 employees	20-49 employees	50-99 employees	100-249 employees	250-499 employees	500-999 employees	1,000-2,499 employees	2,500 employees and over
2861	Hardwood distillation:											
	Number of establishments..	34	8	9	7	5	...	3	2	...	...	...
	Number of employees.....	1,627	24	63	86	153	...	<u>1,299</u>	(D)	...	...	...
	Value added by manufacture	7,419	98	223	346	638	...	<u>6,112</u>	(D)	...	...	...
2862	Softwood distillation:											
	Number of establishments..	27	5	2	1	4	3	6	4	2	...	...
	Number of employees.....	4,431	10	30	(D)	142	244	1,033	<u>2,971</u>	(D)	...	...
	Value added by manufacture	47,374	22	<u>95</u>	(D)	542	1,323	6,267	<u>39,124</u>	(D)	...	...
2863	Gum naval stores:											
	Number of establishments..	26	2	3	14	6	1	..	...	...	...	...
	Number of employees.....	516	29	(D)	212	274	(D)	...	...	...	...	...
	Value added by manufacture	2,473	<u>99</u>	(D)	1,047	<u>1,326</u>	(D)	...	...	...	...	...
2865	Tanning and dyeing materials:											
	Number of establishments..	30	11	7	3	3	4	2	...	...	...	...
	Number of employees.....	670	28	49	35	557	(D)	(D)	...	...	...	...
	Value added by manufacture	4,785	138	579	242	<u>3,825</u>	(D)	(D)	...	...	...	...
2871	Fertilizers:											
	Number of establishments..	260	16	17	12	72	86	48	7	2	...	...
	Number of employees.....	19,728	46	122	181	2,619	5,993	7,105	<u>3,660</u>	(D)	...	...
	Value added by manufacture	171,297	458	848	1,207	19,979	51,954	56,179	<u>40,668</u>	(D)	...	...
2872	Fertilizers, mixing only:											
	Number of establishments..	580	98	118	161	153	41	9	...	...	...	...
	Number of employees.....	12,040	242	884	2,345	4,655	2,688	1,223	...	...	...	...
	Value added by manufacture	81,125	1,748	5,579	14,967	34,135	18,038	6,657	...	...	...	...

Note: Detailed figures may not add to totals because of independent rounding.

Table 5A.—INDUSTRY-PRODUCT ANALYSIS—SUMMARY OF INDUSTRY AND PRIMARY PRODUCT SHIPMENTS, SPECIALIZATION RATIOS AND COVERAGE RATIOS FOR THE UNITED STATES: 1954 AND 1947

Industry code	Industry and census year	Value of shipments					Value of primary products shipped			
		Total	Primary products	Secondary products	Miscel- laneous receipts	Primary product speciali- zation ratio <sup>1</sup>  Col. B Col. C (Percent)	Total (made in all industries)	Made in this industry	Made in other industries	Coverage ratio <sup>2</sup>  Col. G Col. F (Percent)
(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(E)	(\$1,000)	(\$1,000)	(\$1,000)	(I)		
(A)	(B)	(C)	(D)		(F)	(G)	(H)			
2861	Hardwood distillation.....1954.. 1947..	16,006 13,803	14,493 12,850	1,438 863	75 90	91 94	14,504 13,415	14,493 12,850	11 565	100 96
2862	Softwood distillation.....1954.. 1947..	88,650 72,921	60,245 60,237	28,345 12,579	60 105	68 83	61,775 60,833	60,245 60,237	1,530 596	98 99
2863	Gum naval stores.....1954.. 1947..	24,840 38,508	21,639 37,581	2,997 913	204 14	88 98	22,797 37,916	21,639 37,581	1,158 335	95 99
2865	Tanning and dyeing materials.1954.. 1947..	13,818 17,775	11,141 15,148	2,276 1,972	401 655	83 88	12,075 19,370	11,141 15,148	934 4,222	92 78
2871	Fertilizers.....1954.. 1947..	533,448 312,229	511,671 282,081	18,959 23,823	2,818 6,325	96 92	855,196 467,583	511,671 282,081	343,525 185,502	60 60
2872	Fertilizers, mixing only.....1954.. 1947..	329,328 193,318	310,481 176,708	17,301 3,296	1,546 13,314	95 98	707,444 377,936	310,481 176,708	396,963 201,228	44 47

<sup>1</sup>The specialization ratio compares the given industry's shipments of its primary products to its total shipments of all products. (The primary products are listed in Tables 5B and 6A; the first 4-digits of the product code represent the industry code to which the product is primary.)

<sup>2</sup>The coverage ratio measures the extent to which the total shipments of products primary to the given industry are shipped by establishments classified in that industry.

## GUM AND WOOD CHEMICALS; FERTILIZERS

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Table 5B.—INDUSTRY-PRODUCT ANALYSIS--SHIPMENTS BY PRODUCT CLASS AND INDUSTRY, FOR THE UNITED STATES: 1954

(In thousands of dollars. The first column shows the total value of shipments of the specified industry divided among: (a) products classified in the industry (primary products), (b) products classified in other industries (secondary products) and (c) miscellaneous receipts. The value of shipments of the primary products of the specified industry reported by establishments not classified in that industry is shown under the caption "Other Industries." Industries accounting for significant amounts of the primary products listed are shown in separate columns provided that the figures for individual companies are not thereby disclosed. The last column shows the total value of shipments of the primary products of the industry by all manufacturing industries)

Prod. class code	Hardwood distillation industry	Hardwood distillation (S.I.C. 2861)	Other industries	All industries	Prod. class code	Tanning and dyeing materials industry	Tanning and dyeing materials (S.I.C. 2865)	Other industries	All industries	
28610	Total industry shipments.	16,006	xxx	xxx	28651 28652	Total industry shipments.	13,818	xxx	xxx	
	Hardwood distillation products.....	14,493	( <sup>1</sup> )	14,504		Primary products.....	11,141	934	12,075	
	Secondary products.....	1,438	xxx	xxx		Natural dyeing materials.	2,386	191	2,577	
	Miscellaneous receipts.....	75	xxx	xxx		Natural tanning materials	8,755	743	9,498	
						Secondary products.....	2,276	xxx	xxx	
						Miscellaneous receipts.....	401	xxx	xxx	
Prod. class code	Softwood distillation industry	Softwood distillation (S.I.C. 2862)	Other industries	All industries	Prod. class code	Fertilizer industry	Fertilizers (S.I.C. 2871)	Fertilizers, mixing only (S.I.C. 2872)	Other industries	All industries
28620	Total industry shipments.	88,650	xxx	xxx	28711 28712 28713 28710	Total industry shipments.	533,448	329,328	xxx	xxx
	Softwood distillation products.....	60,245	1,530	61,775		Fertilizers.....	511,671	316,764	26,761	855,196
	Secondary products.....	28,345	xxx	xxx		Mixed fertilizers, complete and incomplete.	377,678	310,481	<sup>2</sup> 19,285	707,444
	Miscellaneous receipts.....	60	xxx	xxx		Fertilizer materials of organic origin.....	7,624	3,253	1,658	12,535
						Superphosphate.....	126,101	...	5,214	131,315
						Fertilizers, not specified by kind.....	268	3,030	604	3,902
Prod. class code	Gum naval stores industry	Gum naval stores (S.I.C. 2863)	Other industries	All industries		Other products.....	18,959	11,018	xxx	xxx
28630	Total industry shipments.	24,840	xxx	xxx	28110	Sulfuric acid.....	7,411	...	xxx	xxx
	Gum naval stores.....	21,639	1,158	22,797	2819-	Inorganic chemicals, n.e.c.....	5,426	1,184	xxx	xxx
	Secondary products.....	2,997	xxx	xxx	28970	Insecticides and fungicides for agricultural use.....	3,916	3,915	xxx	xxx
	Miscellaneous receipts.....	204	xxx	xxx		Other secondary products.	2,206	5,919	xxx	xxx
						Miscellaneous receipts.....	2,818	1,546	xxx	xxx
						Contract and commission work.....	2,452	1,222	xxx	xxx
						Other.....	366	324	xxx	xxx

xxx Not applicable.

<sup>1</sup>Less than \$100 thousand.

<sup>2</sup>Of this total \$2,744 thousand was shipped by establishments classified in Industry 2042, Prepared Animal Feeds; \$3,172 thousand by establishments classified in Industry 2819, Inorganic Chemicals, n.e.c.; \$2,416 thousand by establishments classified in Industry 2897, Insecticides and Fungicides and \$5,247 thousand was shipped by establishments classified in Industry 2881, Cottonseed Oil Mills.

Table 6A.--QUANTITY AND VALUE OF PRODUCTS SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, FOR THE UNITED STATES: 1954 AND 1947

Product code	Product	Unit of quantity	1954		1947	
			Total shipments including interplant transfers		Production for all purposes	
			Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
2861----	Hardwood distillation, total.....	.....	xxx	14,504	xxx	13,415
2861011	Acetic acid, natural (basis 100%) <sup>1</sup> .....	Thousand pounds.....	18,966	1,689	2,37,077	2,259
2861021	Methanol (methyl or wood alcohol) <sup>2</sup> .....	.....	.....	.....	.....	.....
2861025	Crude (basis 100%).....	Thousand gallons.....	1,850	1,014	2,2734	75
2861051	Refined (basis 100%).....	Thousand pounds.....	335,652	11,129	2,998	1,853
2861098	Charcoal <sup>4</sup> .....	Thousand pounds.....	xxx	672	379,567	8,565
2862----	Other derivatives of hardwood distillation.....	.....	xxx	61,775	xxx	663
2862----	Softwood distillation, total.....	.....	xxx	.....	xxx	60,833
2862011	Wood turpentine <sup>5</sup> .....	Thousand gallons.....	9,776	4,511	213	140
2862015	Destructively distilled.....	.....	8,611	.....	9,512	6,357
2862021	Steam and solvent distilled <sup>6</sup> .....	.....	.....	.....	.....	.....
2862025	Pine oil:	.....	.....	.....	.....	.....
2862021	Destructively distilled.....	Thousand pounds.....	65,429	7,475	39,318	3,348
2862025	Steam and solvent distilled.....	.....	.....	.....	.....	.....
2862031	Wood rosin <sup>6</sup> .....	Thousand drums of 520 lbs.....	1,367	39,390	1,164	35,356
2862041	Pine tar and pine tar oil.....	Thousand gallons.....	4,971	2,070	5,376	1,723
2862041	Charcoal <sup>4</sup> .....	Thousand pounds.....	49,551	800	47,752	644
2862098	Other derivatives of softwood distillation.....	.....	xxx	7,529	xxx	13,197
2862098	Other derivatives of softwood distillation.....	.....	xxx	...	xxx	68
2862000	Softwood distillation, not specified by kind.....	.....	xxx	...	xxx	7,7916
2863----	Gum naval stores, total.....	.....	xxx	22,797	xxx	4,582
2863011	Gum turpentine <sup>7</sup> .....	Thousand bbl. of 50 gal.....	168	4,249	253	28,739
2863051	Rosin <sup>8</sup> .....	Thousand drums of 520 lbs.....	477	17,249	696	395
2863098	Other products of gum distillation (rosin oil, pine, etc.).....	.....	xxx	1,299	xxx	19,370
2865----	Tanning and dyeing materials, total.....	.....	xxx	12,075	xxx	1,206
2865111	Natural dyestuffs extracts (including logwood, etc.) (solid basis).....	Thousand pounds.....	(NA)	2,577	5,139	1,206
28652	Natural tanning materials.....	.....	xxx	9,498	xxx	18,164
2865211	Extracts:	.....	11,911	1,963	59,731	9,336
2865213	Chestnut, liquid and solid.....	Thousand tan units <sup>9</sup> .....	(NA)	(9)	(10)	(10)
2865215	Wagrose, liquid and solid.....	do.....	(NA)	(9)	(10)	(10)
2865215	Couerbe, liquid and solid.....	do.....	10,865	2,317	14,097	2,160
2865217	Wattle, liquid and solid.....	do.....	(NA)	(NA)	(10)	(10)
2865219	Other extracts (including blends, liquid or solid).....	do.....	(NA)	94,827	1019,964	103,066
2865231	Ground bark.....	Thousand pounds.....	xxx	xxx	xxx	xxx
2865231	Chrome tanning mixtures (basis 100% Cr <sub>2</sub> O <sub>3</sub> ) <sup>11</sup> .....	Thousand pounds.....	(NA)	(9)	(10)	(10)

xxx Not applicable.

NA Not available.

<sup>1</sup>Includes glacial acetic acid. In addition, production of synthetic acetic acid totaled 442,007,000 pounds, data for which are compiled by the U. S. Tariff Commission. Data for synthetic acetic acid included in total for product code 2829311.

<sup>2</sup>Production figures represent total primary production including quantities which are subsequently used in producing other modifications.

<sup>3</sup>In addition, production of synthetic methanol totaled 1,118,477,000 pounds, data for which are compiled by the U. S. Tariff Commission. Data for synthetic methanol included in total for product code 2829311.

<sup>4</sup>Includes a small amount of kln and pit charcoal.

<sup>5</sup>Excludes data for sulfate wood turpentine, the production of which according to the U. S. Department of Agriculture amounted to 10,226,500 gallons for calendar 1954 and 6,864,350 gallons for calendar year 1947, on a refined basis.

<sup>6</sup>Excludes pine reported as such.

<sup>7</sup>For 1947, data include information for fire stills, the production of which, as reported to the Bureau of Agricultural Economics, Department of Agriculture, was as follows: turpentine, 39,821 bbls.; rosin, 106,171 drums; reclaimed gum rosin, 6,709 drums. The 1947 data include an estimated market value totaling less than 3 percent for turpentine and rosin distilled for oils (toll stilling).

<sup>8</sup>A tan unit is equal to one pound 100 percent tannin.

<sup>9</sup>Codes 2865213 and 2865251 combined with product code 2865219.

<sup>10</sup>Codes 2865213, 2865217, and 2865231 combined with product code 2865219.

<sup>11</sup>The 1947 figures include data for certain chromium chemicals which in 1954 are classified as product code 2819732, "Other Chromium Compounds."

Table 6A.--QUANTITY AND VALUE OF PRODUCTS SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, FOR THE UNITED STATES: 1954 AND 1947--Continued

Product code	Product	1954						1947					
		Production for all purposes, including further manufacture			Total shipments including interplant transfers			Production for all purposes, including further manufacture			Total shipments including interplant transfers		
		Quantity (Short tons)	Value (\$1,000)	Nitrogen as N (Short tons)	Phosphorus as P <sub>2</sub> O <sub>5</sub> (Short tons)	Potassium as K <sub>2</sub> O (Short tons)		Quantity (Short tons)	Value (\$1,000)	Nitrogen as N (Short tons)	Phosphorus as P <sub>2</sub> O <sub>5</sub> (Short tons)	Potash as K <sub>2</sub> O (Short tons)	
2871---	Fertilizers, total.....	xxx	855,196	xxx	xxx	xxx		xxx	467,583	xxx	xxx	xxx	
2872---	Mixed fertilizers, complete and incomplete..	xxx	707,444	xxx	xxx	xxx		xxx	377,523	xxx	xxx	xxx	
287111	Complete mixtures (grades guaranteeing N, P <sub>2</sub> O <sub>5</sub> , and K <sub>2</sub> O).....	13,581,033	13,536,479	682,555	1,517,646	1,334,781		10,722,934	344,301	418,323	1,097,134	693,401	
	Incomplete mixtures:												
2871121	Grades guaranteeing N and P <sub>2</sub> O <sub>5</sub> only. <sup>12</sup>	856,939	44,999	102,932	180,304	xxx		405,811	14,991	44,308	70,276	xxx	
2871131	Grades guaranteeing P <sub>2</sub> O <sub>5</sub> and K <sub>2</sub> O only.	778,051	35,439	xxx	123,322	138,725		453,047	13,001	xxx	63,121	47,334	
2871151	Grades guaranteeing N and K <sub>2</sub> O only....	140,956	162,966	8,306	17,175	xxx		60,260	2,860	6,104	xxx	5,754	
2871171	Grades guaranteeing N, P <sub>2</sub> O <sub>5</sub> , of K <sub>2</sub> O only.....	119,878	4,129	2,898	15,992	12,118		xxx	2,770	xxx	xxx	xxx	
2871100	Mixed fertilizers, complete and incomplete, not specified by kind.....	xxx	12,011	xxx	xxx	xxx		xxx	(13)	xxx	xxx	xxx	
28712	Fertilizer materials of organic origin.....	xxx	12,535	xxx	xxx	xxx		xxx	3,472	xxx	xxx	xxx	
2871251	Processed tankage.....	90,126	92,106	4,547	xxx	xxx		xxx	3,472	xxx	xxx	xxx	
2871211	Activated sewage sludge.....	323,351	316,078	xxx	xxx	xxx		xxx	150,075	xxx	xxx	xxx	
2871298	Other natural fertilizer materials. <sup>15</sup>	xxx	1,220	xxx	xxx	xxx		xxx	(13)	xxx	xxx	xxx	
2871200	Fertilizer materials of organic origin, not specified by kind.....	xxx	xxx	xxx	xxx	xxx		xxx	xxx	xxx	xxx	xxx	
Product code	Product	Production (tons)			Total shipments including interplant transfers			Production (tons)			Total shipments including interplant transfers		
		Consumed in producing plant	Tons	Value (\$1,000)	Consumed in producing plant	Tons	Value (\$1,000)	Consumed in producing plant	Tons	Value (\$1,000)	Consumed in producing plant	Tons	Value (\$1,000)
28713	Superphosphate.....	xxx	xxx	131,315	xxx	xxx	xxx	xxx	xxx	85,506	xxx	xxx	xxx
	Superphosphates except feed grades (basis 100% A.P.A.):												
2871311	Normal (22% A.P.A. and less, acidulated with H <sub>2</sub> SO <sub>4</sub> alone).....	1,626,320	1,696,044	1,677,828	1,671,510	1,666,626		1,625,234	681,789	850,864	71,399	736,583	61,851
2871331	Enriched (over 22% and under 40% acidulated with H <sub>2</sub> SO <sub>4</sub> and H <sub>3</sub> PO <sub>4</sub> ).....	34,404	27,538	1,312	2,516	230		(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
2871341	Concentrated (acidulated with H <sub>3</sub> PO <sub>4</sub> alone).....	17,590,205	27,620	48,898	417,094	37,677		164,500	4,504	13,086	139,214	12,008	
2871351	Wet base goods.....	8,941	16	16	16	16		14,481	4,901	1,021	8,071	940	
2871371	Superphosphates, defluorinated and phosphate rock defluorinated (feed grade) (100% P).....	18,852	xxx	3,277	9,546	3,277		xxx	(NA)	(NA)	(NA)	(NA)	(NA)
2871000	Fertilizers, not specified by kind.....	xxx	xxx	3,902	xxx	xxx		xxx	xxx	13,082	xxx	xxx	xxx

<sup>12</sup>Includes data for ammonium phosphates and ammonium superphosphates.<sup>13</sup>Code 2871200 included with product code 2871000.<sup>14</sup>Excludes information from municipalities.<sup>15</sup>Excludes data for garbage tangle and bone meal, products primarily to Industry 2886, Grease and Tallow.<sup>16</sup>Data for wet-base goods, code 2871351 included with code 2871311, "Normal superphosphate."<sup>17</sup>Production includes 51,800 tons of 100 percent A.P.A. reported by Tennessee Valley Authority.<sup>18</sup>Production includes quantities reported by all establishments including those classified as "non-manufacturing." The shipment data include only reports by plants classified as "manufacturing."



## MANUFACTURES--INDUSTRY STATISTICS

Table 6B.--VALUE OF PRODUCT CLASSES SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, BY DIVISIONS AND STATES FOR 1954, AND UNITED STATES TOTALS FOR EARLIER YEARS

(In thousands of dollars. Statistics are shown for selected product classes which are economically significant and production of which is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (Table 2) and they are not miscellaneous or "not specified by type" classes. For each product class, States are listed only if the value of shipments is more than \$1 million and the figure does not disclose individual company information. Additional States which had shipments of more than \$1 million of the individual product classes are listed in footnote 1.)

Product class, region, and State <sup>1</sup>	Value of shipments	Product class, region, and State <sup>1</sup>	Value of shipments	Product class, region, and State <sup>1</sup>	Value of shipments
<u>Mixed fertilizers, complete and incomplete (28711)</u>		<u>Mixed fertilizers, complete and incomplete (28711)—Continued</u>		<u>Superphosphate (28713)—Continued</u>	
1954 United States, total.....	797,444	East South Central.....	66,513	Middle Atlantic.....	5,195
1953 United States, total.....	793,281	Kentucky.....	11,964	New Jersey.....	3,378
1952 United States, total.....	733,840	Tennessee.....	25,039		
1951 United States, total.....	648,107	Alabama.....	20,087	East North Central.....	14,877
1950 United States, total.....	545,645	Mississippi.....	9,423	Ohio.....	3,235
1947 United States, total.....	377,523			Indiana.....	3,520
1954				Illinois.....	4,857
New England.....	15,052	West South Central.....	66,701		
Maine.....	5,417	Arkansas.....	10,350	West North Central.....	3,631
Massachusetts.....	5,814	Louisiana.....	11,018	Iowa.....	1,710
Middle Atlantic.....	48,005	Oklahoma.....	3,367		
New York.....	16,238	Texas.....	41,966	South Atlantic.....	76,538
New Jersey.....	16,691	Mountain.....	3,281	Maryland.....	15,066
Pennsylvania.....	15,076	Colorado.....	476	Virginia.....	3,617
East North Central.....	195,674			North Carolina.....	4,108
Ohio.....	61,467	Pacific.....	20,683	South Carolina.....	4,625
Indiana.....	42,708	Washington.....	1,520	Georgia.....	5,901
Illinois.....	58,359	Oregon.....	1,150	Florida.....	43,221
Michigan.....	17,490	California.....	18,013		
Wisconsin.....	15,650			East South Central.....	11,607
West North Central.....	70,013			Tennessee.....	5,134
Minnesota.....	16,062	<u>Superphosphate (28713)</u>		Alabama.....	3,129
Iowa.....	20,759	1954 United States, total.....	131,315	Mississippi.....	2,656
Missouri.....	21,575	1953 United States, total.....	2118,060		
Kansas.....	7,123	1952 United States, total.....	2110,647	West South Central.....	8,764
South Atlantic.....	221,522	1951 United States, total.....	2109,446	Arkansas.....	1,237
Maryland.....	30,868	1950 United States, total.....	2104,068	Louisiana.....	1,661
Virginia.....	40,701	1947 United States, total.....	285,506	Oklahoma.....	988
North Carolina.....	42,248	1954		Texas.....	4,878
South Carolina.....	19,833				
Georgia.....	43,172	New England.....	1,502	West.....	9,201
Florida.....	41,646				

Note: The figures shown for 1950 to 1953 are sample estimates obtained from the Annual Survey of Manufactures for those years. Since the estimates are based on a sample they are subject to sampling variability, that is, they are not the same as figures which would have been obtained if complete censuses had been taken for those years. Measures of the sampling variability (standard errors) of the estimated total value of shipments of each product class are shown in the Annual Survey of Manufactures publications. Also shown are the standard errors of the relative change in shipments between some consecutive Annual Survey years which are the more significant measures when the series is studied for trend.

<sup>1</sup>For the specified product classes, shipments of over \$1 million were reported for the States listed but the exact figures are withheld to avoid disclosure of individual company figures: 28711, Connecticut, Nebraska, Delaware, and Arizona; 28713, New Jersey, Michigan, Wisconsin, Missouri, Montana, Idaho, Utah, and California.

<sup>2</sup>Excludes the value of superphosphates, defluorinated and phosphate rock defluorinated which was classified in 28197, inorganic chemicals, n.e.c., from 1947-1953.

## GUM AND WOOD CHEMICALS; FERTILIZERS

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Table 6C.—PRODUCTION AND SHIPMENTS OF COMPLETE AND INCOMPLETE MIXED FERTILIZERS AND SUPERPHOSPHATE, BY ALL MANUFACTURING ESTABLISHMENTS, BY DIVISIONS AND STATES: 1954

Division and State	Shipments including interplant transfers			Plant food content of production (tons)		
	Quantity (tons)	Value (\$1,000)	Total production	Nitrogen (N)	Available Phosphoric acid (P <sub>2</sub> O <sub>5</sub> )	Potash (K <sub>2</sub> O)
Complete Mixtures: Grades Guaranteeing N, P <sub>2</sub> O <sub>5</sub> , and K <sub>2</sub> O (Product code 2871111)						
United States, total.....	13,534,479	602,560	13,581,033	682,555	1,517,646	1,334,781
New England.....	258,086	14,122	266,484	17,050	25,441	26,904
Maine.....	91,781	5,264	93,322	6,166	9,705	10,984
Massachusetts.....	101,636	5,286	101,632	6,833	10,226	10,105
Connecticut.....	51,391	2,897	57,600	3,253	4,089	4,399
Other <sup>1</sup> .....	13,278	675	13,930	798	1,421	1,416
Middle Atlantic.....	987,722	45,380	981,472	52,691	100,223	86,560
New York.....	308,816	15,487	298,607	17,127	29,714	23,968
New Jersey.....	363,106	15,916	368,200	19,677	36,847	32,753
Pennsylvania.....	315,800	13,977	314,665	15,887	33,662	29,839
East North Central.....	3,573,236	176,798	3,641,904	179,846	468,053	472,673
Ohio.....	1,219,064	57,851	1,252,018	58,832	154,104	148,025
Indiana.....	803,376	38,578	810,276	37,746	106,900	112,034
Illinois.....	990,542	51,891	996,853	58,006	128,426	130,821
Michigan.....	325,639	16,112	334,246	13,604	45,213	43,000
Wisconsin.....	234,615	12,366	248,511	11,658	33,410	38,793
West North Central.....	826,147	50,882	859,637	58,523	135,996	100,741
Minnesota.....	192,518	11,977	188,785	10,470	33,539	26,797
Iowa.....	258,211	15,389	276,101	16,831	42,905	35,045
Missouri.....	313,077	19,532	329,670	25,640	49,825	33,522
Kansas.....	48,405	3,099	51,546	4,556	3,769	3,769
Other <sup>2</sup> .....	13,936	885	13,535	1,026	2,458	1,608
South Atlantic.....	5,227,043	197,904	5,110,815	216,751	489,829	421,075
Delaware.....	45,539	2,244	45,419	2,541	5,262	5,536
Maryland.....	688,979	27,703	700,628	31,524	72,423	60,607
Virginia.....	955,044	36,300	820,821	35,312	90,601	75,436
West Virginia.....	9,406	377	9,409	392	1,077	786
North Carolina.....	1,011,990	39,224	1,054,976	38,874	99,343	79,099
South Carolina.....	535,110	18,385	530,601	19,333	51,094	42,232
Georgia.....	1,126,190	38,558	1,115,784	45,394	105,364	95,226
Florida.....	854,785	35,113	833,177	43,381	64,665	62,153
East South Central.....	1,620,573	61,308	1,612,422	76,161	160,616	131,501
Kentucky.....	247,426	11,118	254,088	11,367	26,525	26,337
Tennessee.....	583,980	23,725	592,027	27,147	60,944	52,615
Alabama.....	566,145	18,107	543,823	25,143	52,067	36,989
Mississippi.....	223,022	8,358	222,484	12,504	21,080	15,560
West South Central.....	831,074	42,853	897,393	62,708	116,573	82,376
Arkansas.....	188,587	9,488	192,518	11,180	20,152	20,914
Louisiana.....	248,883	10,463	254,999	14,405	26,202	18,296
Oklahoma.....	32,743	1,829	32,870	2,165	4,864	2,015
Texas.....	360,861	21,073	417,006	34,958	65,355	41,151
Mountain.....	21,398	1,546	21,637	2,054	2,206	839
Idaho.....	716	63	716	126	50	54
Arizona.....	4,690	371	4,873	421	740	290
Utah.....	8,225	450	8,225	811	256	191
Other <sup>3</sup> .....	7,767	662	7,823	696	1,160	304
Pacific.....	189,200	11,767	189,269	16,771	18,709	12,112
California.....	164,539	10,001	165,116	15,064	15,800	10,235
Other <sup>4</sup> .....	24,661	1,766	24,153	1,707	2,909	1,877
Shipments including interplant transfers						
Plant food content of production (tons)						
	Quantity (tons)	Value (\$1,000)	Total production	Nitrogen (N)	Available Phosphoric acid (P <sub>2</sub> O <sub>5</sub> )	
Incomplete Mixtures: Grades Guaranteeing N and P <sub>2</sub> O <sub>5</sub> only (Product code 2871121)						
United States, total.....	669,593	44,999	856,939	102,932		180,304
New England and Middle Atlantic <sup>6</sup> .....	7,842		200	7,970	435	1,341
East North Central.....	9,761		561	16,064	1,042	3,034
West North Central.....	174,494	12,902	192,400	20,045		41,138
Iowa.....	60,336	4,213	67,530	5,887		15,175
Missouri.....	15,606	1,144	17,273	1,814		3,504
Nebraska.....	36,387	2,820	39,433	4,707		8,639
Kansas.....	51,957	3,986	57,039	6,686		10,532
Other <sup>7</sup> .....	10,208	739	11,125	951		3,288

See footnotes at end of table.

## MANUFACTURES—INDUSTRY STATISTICS

Table 6C.—PRODUCTION AND SHIPMENTS OF COMPLETE AND INCOMPLETE MIXED FERTILIZERS AND SUPERPHOSPHATE, BY ALL MANUFACTURING ESTABLISHMENTS, BY DIVISIONS AND STATES: 1954—Continued

Division and State	Shipments including interplant transfers			Plant food content of production (tons)	
	Quantity (tons)	Value (\$1,000)	Total production	Nitrogen (N)	Available Phosphoric acid (F <sub>2</sub> O <sub>5</sub> )
Incomplete Mixtures: Grades Guaranteeing N and P <sub>2</sub> O <sub>5</sub> only (Product code 2871121)—Continued					
South Atlantic.....	86,940	2,908	118,719	7,087	18,643
Virginia.....	3,238	89	15,531	1,022	2,641
South Carolina.....	27,747	583	30,198	1,574	4,774
Georgia.....	10,699	288	13,642	914	2,651
Florida.....	39,816	1,698	47,328	2,657	6,949
Other <sup>8</sup> .....	5,440	250	12,020	920	1,628
South Central.....	279,436	21,383	405,949	60,494	98,437
Arkansas.....	474	36	1,706	148	271
Louisiana.....	725	46	1,313	134	209
Oklahoma.....	16,234	1,444	18,188	2,110	4,010
Other <sup>9</sup> .....	262,023	19,857	384,742	58,102	93,947
Mountain.....	19,418	1,440	19,694	2,207	3,161
Utah.....	1,646	111	1,646	164	328
Other <sup>10</sup> .....	17,772	1,329	18,048	2,043	2,833
Pacific.....	91,702	5,605	96,143	11,622	14,550
California.....	85,667	5,351	84,037	9,797	12,305
Other <sup>11</sup> .....	6,035	254	12,106	1,825	2,245
	Total, all grades, except feed (tons of 100% A.P.A.)	Normal and wet base			
		Production (Tons of 100% A.P.A.)	Shipments including interplant transfers		
			Quantity (Tons of 100% A.P.A.)	Value (\$1,000)	
			Superphosphate, except feed grades (Product codes 2871311-287351)		
United States, total.....	2,259,870	1,635,261		846,793	77,828
New England.....	120,063	(D)		14,762	1,500
Middle Atlantic.....	97,870	(D)		51,577	4,684
New Jersey.....	65,057	(D)		(D)	(D)
Other.....	132,813	(D)		(D)	(D)
East North Central.....	448,373	409,118		136,158	13,715
Ohio.....	134,152	(D)		32,414	3,115
Indiana.....	82,077	(D)		29,775	2,915
Illinois.....	147,980	133,569		46,018	4,563
Michigan.....	53,953	49,131	}	27,951	3,122
Wisconsin.....	30,211	30,211			
West North Central.....	74,701	(D)		24,554	2,999
Iowa.....	32,520	(D)		(D)	(D)
Other.....	142,181	(D)		(D)	(D)
South and West.....	1,618,863	1,055,249		619,742	54,930
Maryland.....	199,116	(D)		168,186	15,066
Virginia.....	102,712	102,712		42,060	3,617
North Carolina.....	95,240	95,240		47,736	4,109
South Carolina.....	91,721	(D)		44,439	3,578
Georgia.....	147,120	147,120		74,272	5,903
Florida.....	514,888	87,194		54,336	4,082
Tennessee.....	92,638	(D)		35,143	3,352
Alabama.....	120,954	(D)		38,445	3,129
Mississippi.....	45,332	45,332		24,716	1,833
Arkansas.....	16,791	16,791		12,076	1,237
Louisiana.....	31,782	31,782		16,000	1,661
Oklahoma.....	14,224	14,224		10,689	988
Texas.....	55,329	(D)		22,022	2,312
Other.....	1591,016	(D)		29,622	4,063

D Withheld to avoid disclosing figures for individual companies. <sup>1</sup>Includes data for plants located in Vermont and Rhode Island. <sup>2</sup>Includes data for plants located in North Dakota, South Dakota and Nebraska. <sup>3</sup>Includes data for plants located in Montana, Colorado and New Mexico. <sup>4</sup>Includes data for plants located in Washington and Oregon. <sup>5</sup>Includes data for plants located in Maine, Massachusetts, Connecticut, New Jersey and Pennsylvania. <sup>6</sup>Includes data for plants located in Ohio, Indiana, Illinois and Wisconsin. <sup>7</sup>Includes data for plants located in Minnesota and North Dakota. <sup>8</sup>Includes data for plants located in Maryland and North Carolina. <sup>9</sup>Includes data for plants located in Kentucky, Tennessee, Alabama, Mississippi and Texas. <sup>10</sup>Includes data for plants located in Montana, Idaho, Colorado, New Mexico and Arizona. <sup>11</sup>Includes data for plants located in Washington and Oregon. <sup>12</sup>Includes data for plants located in Maine and Massachusetts. <sup>13</sup>Includes data for plants located in New York and Pennsylvania. <sup>14</sup>Includes data for plants located in Missouri, Nebraska and Kansas. <sup>15</sup>Includes data for plants located in Kentucky, Montana, Idaho, Utah, Washington and California.



## GUM AND WOOD CHEMICALS; FERTILIZERS

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Table 7.—MATERIALS CONSUMED, BY KIND: 1954 AND 1947

(Data for the selected materials shown for Industries 2871 and 2872 below represent quantities used in the manufacture of superphosphate and mixed fertilizers)

Code	Description of materials	Basis	Unit of measure	1954		1947	
				Quantity	Delivered cost (\$1,000)	Quantity	Delivered cost (\$1,000)
INDUSTRY 2861--HARDWOOD DISTILLATION							
	Materials, containers, and supplies, total.....	xxx	.....	xxx	7,572	xxx	5,214
241125	Cordwood, hardwood.....	128 cu. ft.	Cord....	282,917	3,572	291,525	3,180
242175	Mill waste, hardwood.....	....do....	....do....	85,838	904	49,741	400
970000	All other materials and components, containers, and supplies including materials etc., not specified by kind.....	xxx	.....	xxx	3,096	xxx	1,634
INDUSTRY 2862--SOFTWOOD DISTILLATION							
	Materials, containers, and supplies, total.....	xxx	.....	xxx	39,698	xxx	23,300
241119	Stumps, softwoods.....	xxx	Short ton	2,254,550	19,371	2,047,611	13,154
970000	All other materials and components, containers, and supplies consumed including materials etc., not specified by kind.....	xxx	.....	xxx	20,327	xxx	10,146
INDUSTRY 2871--FERTILIZERS AND INDUSTRY 2872--FERTILIZERS, MIXING ONLY							
	Materials, containers, and supplies, total.....	xxx	.....	xxx	2,599,992	xxx	2,329,118
Nitrogen bearing materials:							
Chemical nitrogenous:							
281931	Ammonia, synthetic, anhydrous.....	100% NH <sub>3</sub> ...	Short ton	208,735	19,439	57,164	3,813
281941	Ammoniating or nitrogen solutions.....	100% N.....	....do....	327,533	48,298	526,072	25,222
281935	Ammonium nitrate.....	100% NH <sub>4</sub> NO <sub>3</sub>	....do....	90,380	6,998	112,466	6,412
281711	Ammonium nitrate and limestone mixtures (calnitro, ANL, etc.)....	xxx	....do....	50,617	2,737	21,896	809
281975	Calcium cyanamide.....	100% CaCN <sub>2</sub> ..	....do....	11,787	764	29,380	1,471
281961	Nitrate of soda.....	100% NaNO <sub>3</sub> ..	....do....	107,229	5,596	56,133	2,374
281965	Sulfate of ammonia.....	100% (NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub> ....	....do....	952,154	47,072	637,097	23,831
280043	Urea and calurea.....	100% N.....	....do....	18,701	2,489	19,530	1,281
Other chemical nitrogenous materials:							
280011	Containing nitrogen and phosphorus.....	xxx	....do....	51,364	1,637	79,581	3,824
280021	Containing nitrogen and potassium (including potassium nitrate).....	xxx	....do....	8,702	546	671	
280031	Containing nitrogen only.....	xxx	....do....	51,009	1,886	25,482	
Organic ammoniates:							
288111	Cottonseed meal.....	xxx	....do....	29,757	2,024	30,277	2,482
201021	Tankage.....	xxx	....do....	108,100	5,418	126,179	5,559
280049	Other organic ammoniates including tobacco stems.....	xxx	....do....	167,685	3,449	246,617	7,341
Phosphatic materials:							
Superphosphate: transferred from other plants or purchased:							
287121	Normal (22% A.P.A. and less).....	100% A.P.A.	....do....	652,414	52,731	745,598	37,468
287131	Concentrated (40% A.P.A. and over).....	....do....	....do....	832,024	42,069	965,870	5,586
287126	Enriched (over 22% and under 40% A.P.A.).....	....do....	....do....	101,347	1,374		
287141	Wet base goods.....	....do....	....do....	85,387	604	89,331	1,738
280041	Other phosphatic materials.....	xxx	....do....	57,984	2,175		
Potassic materials:							
Muriate of potash:							
147411	60-62% K <sub>2</sub> O.....	xxx	....do....	2,120,642	77,826	1,011,400	33,173
147421	50% K <sub>2</sub> O.....	xxx	....do....	104,515	3,736	91,110	2,622
147431	Manure salts (30% K <sub>2</sub> O and under).....	xxx	....do....	1,065	21	112,363	1,742
147441	Sulfate of potash.....	48% K <sub>2</sub> O.....	....do....	147,252	6,999	72,131	2,731
147451	Sulfate of potash-magnesia.....	xxx	....do....	94,556	2,975	93,072	2,418
147461	Other potash bearing materials, excluding potassium nitrate.....	xxx	....do....	11,066	418	11,089	432
Filler and inert conditioning agents:							
144151	Inert fillers.....	xxx	....do....	1,352,006	3,933	937,881	9,905
140011	Secondary plant food (limestone, magnesium oxide, copper compounds, etc.) except sulfur.....	xxx	....do....	1,018,729	5,800	904,642	
149811	Soil conditioners (peat, nut hulls, and citrus meals).....	Short ton..	....do....	117,208	1,336	200,423	
Sulfuric acid:							
281111	New sulfuric acid transferred from other plants or purchased and used in the manufacture of superphosphate.....	100% H <sub>2</sub> SO <sub>4</sub> ..	....do....	11,520,860	26,116	12,535,334	20,154
281135	Spent sulfuric acid transferred from other plants or purchased and used in the manufacture of superphosphate.....	....do....	....do....	420,436	7,080	366,866	3,799
147511	Phosphate rock (used in the manufacture of superphosphate).....	xxx	Long ton.	5,838,391	69,770	5,384,835	46,148
281991	Phosphoric acid transferred or purchased and used in the manufacture of superphosphate.....	50% H <sub>3</sub> PO <sub>4</sub> ..	Short ton	151,355	3,557	1,215	59
287151	Concentrated superphosphate transferred or purchased and used in the manufacture of normal superphosphate.....	100% A.P.A.	....do....	2,347	221	(NA)	(14)
147911	Pyrites.....	xxx	Long ton.	1,400	30,844	(NA)	(14)
147711	Sulfur, crude.....	xxx	....do....	980,340		(NA)	(14)
970000	All other materials and components, parts, containers, and supplies consumed including materials etc., not specified by kind.....	xxx	.....	xxx	112,054	xxx	147,724

NA Not available. XXX Not applicable. <sup>1</sup>Includes cordwood and mill waste amounting to less than 5 percent of the total quantity, converted at 3,500 pounds per cord for cordwood and 3,000 pounds per cord for mill waste. <sup>2</sup>Includes \$353,851 thousands for establishments classified in Industry 2871, and \$246,141 thousands for establishments classified in Industry 2872. <sup>3</sup>Includes \$193,531 thousands for establishments classified in Industry 2871 and \$135,587 thousands for establishments classified in Industry 2872. <sup>4</sup>Gross weight basis. <sup>5</sup>Includes 18,186 tons of aqua ammonia (NH<sub>3</sub> content). <sup>6</sup>In addition, 760,044 tons (100% A.P.A.) of normal (including a small quantity of wet-base goods) were consumed by establishments producing superphosphate. <sup>7</sup>In addition, 681,789 tons (100% A.P.A.) were consumed by establishments producing superphosphate. <sup>8</sup>In addition, 27,620 tons (100% A.P.A.) were consumed by establishments producing superphosphate. <sup>9</sup>In addition, 4,504 tons (100% A.P.A.) of concentrated and enriched superphosphate were consumed by establishments producing superphosphate. <sup>10</sup>In addition, 27,538 tons (100% A.P.A.) were consumed by establishments producing super phosphate. <sup>11</sup>In addition, 2,804,928 tons (100% H<sub>2</sub>SO<sub>4</sub>) were consumed by establishments with acid producing facilities classified in the fertilizer industries. <sup>12</sup>In addition, 1,864,117 tons (100% H<sub>2</sub>SO<sub>4</sub>) were consumed by establishments with acid producing facilities classified in the fertilizer industries. <sup>13</sup>In addition, 1,321,468 tons (50% H<sub>3</sub>PO<sub>4</sub>) were consumed by establishments with acid producing facilities classified in the fertilizer industries. <sup>14</sup>Included in material code 970000, "All other materials."



Table 8.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY INDUSTRY SPECIALIZATION AND PRIMARY PRODUCT CLASS SPECIALIZATION, FOR THE UNITED STATES: 1954

(This table presents selected statistics for establishments classified according to their degree of specialization in products primary to the industry. The establishments are classified in two ways: (1) by industry specialization—the degree of specialization in all primary products of the industry; and (2) by product-class specialization—the degree of specialization in the largest product class of the establishment. The degree of "industry specialization" for an establishment represents the ratio of its primary product shipments to its total product shipments, primary and secondary. The degree of "product-class specialization" for an establishment represents the ratio of its largest product class shipments to its total product shipments, primary and secondary. Data are not shown for some industries, product classes, and specialization ranges for a variety of reasons, consequently, detailed figures frequently do not add to the totals. See Introduction for detailed explanation)

Ind. or product class No.	Industry or product class by percent of specialization	Estab- lish- ments, number	All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
2862	SOFTWOOD DISTILLATION (entire industry).....	27	4,431	17,662	3,698	7,886	13,260	47,374	41,275	88,650
	Establishments with:									
	90% or more specialization.....	18	1,180	3,652	1,026	2,218	2,950	7,613	7,264	14,877
2865	NATURAL TANNING AND DYEING MATERIALS (entire industry).	30	670	2,507	545	1,054	1,594	4,785	9,032	13,818
	Establishments with:									
	90% or more specialization.....	26	386	1,409	319	606	885	2,357	5,388	7,745
28651	Natural dyeing materials:									
	All establishments specializing in product class.	12	72	337	56	117	153	751	1,320	2,071
	Establishments with:									
	90% or more specialization.....	12	72	337	56	117	153	751	1,320	2,071
28652	Natural tanning materials:									
	All establishments specializing in product class.	17	484	1,790	390	740	1,161	3,192	6,396	9,589
	Establishments with:									
	90% or more specialization.....	13	259	858	221	404	602	1,272	3,698	4,971
2871	FERTILIZERS (entire industry).....	260	19,728	73,048	15,728	34,527	53,431	171,297	362,150	533,448
	Establishments with:									
	90% or more specialization.....	234	16,645	61,389	13,466	29,380	45,245	148,650	321,482	470,133
	75-89% specialization.....	10	1,465	5,949	1,022	2,350	4,071	8,678	18,754	27,433
	50-74% specialization.....	5	669	2,826	477	1,135	1,880	3,600	6,634	10,234
	All other <sup>1</sup> .....	11	948	2,883	762	1,662	2,234	10,367	15,279	25,647
28711	Mixed fertilizers, complete and incomplete:									
	All establishments specializing in product class.	190	14,917	54,049	11,828	25,836	38,838	130,835	295,782	426,617
	Establishments with:									
	90% or more specialization.....	77	5,310	20,107	4,285	9,364	14,566	55,016	126,114	181,131
	75-89% specialization.....	65	5,467	19,608	4,359	9,389	14,150	45,116	103,756	148,872
28713	Superphosphate:									
	All establishments specializing in product class.	26	3,422	14,082	2,742	6,121	10,759	30,767	49,621	80,388
	Establishments with:									
	90% or more specialization.....	14	2,211	9,351	1,820	3,958	7,183	21,880	31,923	53,803
	75-89% specialization.....	5	179	895	147	367	729	546	1,809	2,355
	50-74% specialization.....	4	737	2,984	527	1,205	2,154	6,385	12,591	18,977
	Less than 50% specialization.....	3	294	851	247	590	692	1,955	3,297	5,252

<sup>1</sup>This class includes data for establishments with less than 50% specialization in the primary products of the industry and establishments engaged exclusively in contract work defined in the industry. Miscellaneous small statistical adjustments are also included.





## Vegetable and Animal Oils

This report shows 1954 Census of Manufactures statistics for establishments classified in each of the following industries:

Code	Title
2881	- Cottonseed Oil Mills
2882	- Linseed Oil Mills
2883	- Soybean Oil Mills
2884	- Vegetable Oil Mills, Not Elsewhere Classified
2886	- Grease and Tallow
2887	- Fatty Acids
2889	- Animal Oils, Not Elsewhere Classified

Industry Group 288 comprises establishments primarily engaged in extracting vegetable and animal oils. Mills classified in this group also frequently engage in activities beyond the extracting stage such as refining (alkali or caustic treatment of the oil), hydrogenating, blowing, blending, and fractionating of inedible oils. Establishments primarily engaged in manufacturing shortening and other edible fats and oils by such processes as

deodorization, winterization, and hydrogenation are classified in Industry 2092, Shortening and Cooking Oil; Industry 2093, Margarine and Industry 2094, Corn Wet Milling. Establishments primarily engaged in refining oils for medicinal purposes are classified in Industry 2833, Medicinal Chemicals; in distilling and refining natural essential oils, in Industry 2892, Essential Oils; manufacturing sulfonated oils in Industry 2843, Sulfonated Oils and Assistants; and establishments primarily engaged in rendering lard are classified in Industry 2011, Meat Packing Plants.

Establishments which extract vegetable oils frequently are engaged in other operations at the same location, and those which refine edible oils generally continue the processing of these oils into such end products as shortening, margarine, and cooking and salad oils. Measures of this integration appear in the table below, which presents, by industry classification, the quantities of specified oils produced and consumed in the same establishment:

PRODUCTION OF SPECIFIED VEGETABLE OILS, BY INDUSTRIAL CLASSIFICATION OF PRODUCING ESTABLISHMENTS: 1954  
(Figures in thousands of pounds)

Item	Cottonseed		Soybean		Peanut		Coconut		Linseed	
	Total	Consumed	Total	Consumed	Total	Consumed	Total	Consumed	Total	Consumed
PRODUCTION OF CRUDE OILS										
Total.....	1,945,921	144,996	2,402,615	144,890	68,986	(NA)	421,768	(NA)	652,668	189,639
Cottonseed oil mills (S.I.C. 2881).....	1,915,277	(D)	26,467	(D)	2,394	(NA)	...	...	...	...
Linseed oil mills (S.I.C. 2882).....	11,159	...	...	...	...	...	...	...	609,335	(D)
Soybean oil mills (S.I.C. 2883).....	...	...	2,365,179	(D)	...	...	...	...	(D)	(D)
Vegetable oil mills, n.e.c. (S.I.C. 2884).....	4,133	...	(D)	(D)	29,451	(NA)	(D)	(NA)	(D)	(D)
Shortening and cooking oils (S.I.C. 2092).....	(D)	(D)	...	...	(D)	(NA)	(D)	(NA)	...	...
Other industries <sup>1</sup> .....	(D)	...	(D)	...	37,141	(NA)	...	...	...	...
PRODUCTION OF REFINED OILS <sup>2</sup>										
Total.....	1,686,968	1,341,819	2,090,451	1,903,328	59,258	47,592	360,184	302,119	247,247	30,510
Cottonseed oil mills (S.I.C. 2881).....	214,868	(D)	(D)	(D)	(D)	(D)	...	...	...	...
Linseed oil mills (S.I.C. 2882).....	...	...	(D)	(D)	...	...	...	...	187,568	(D)
Soybean oil mills (S.I.C. 2883).....	(D)	...	159,214	(D)	...	...	(D)	(D)	44,874	(D)
Vegetable oil mills, n.e.c. (S.I.C. 2884).....	66,888	(D)	(D)	(D)	6,742	(D)	109,623	58,557	(D)	...
Shortening and cooking oils (S.I.C. 2092).....	1,297,962	1,194,021	1,789,371	1,724,931	34,644	27,227	114,971	109,847	...	...
Other industries <sup>1</sup> .....	(D)	103,072	77,567	76,637	(D)	(D)	(D)	(D)	(D)	(D)

NA Not available.

D Included in "Other industries" to avoid disclosure of figures for individual companies.

<sup>1</sup>None of these oils produced by establishments classified in Industry 2093, Margarine.

<sup>2</sup>Oil treated by alkali or caustic wash.



The vegetable oil mill extraction process yields crude oil and byproduct cake and meal. The value of shipments of the byproducts represents a significant portion of the total shipments of products primary to each of the industries in this group, ranging from 54 percent for the products primary to Industry 2883, Soybean Oil Mills to 14 percent for Industry 2884, Vegetable Oil Mills, N.E.C., in 1954. Because the vegetable oil crushing equipment may be used for many varieties of seeds or beans, it is also characteristic for many of these plants not to specialize exclusively in the crushing of a specific oil. Thus, some cottonseed oil mills also crush peanuts or soybeans, and soybean oil mills may also crush flaxseed. Thus in reporting data regarding crushing equipment and capacity (see Table 9A below) some establishments indicated the identical number of presses for either cottonseed or soybeans, or other combinations of seeds and beans.

Variations in equipment used vary with the kind of oil as well as with the geographic area. Data for 1954 for cottonseed, flaxseed, and soybean oils appear in Table 9B below; statistics for earlier years, which may be used as a basis to determine the effects of these technological changes on oil yields and other operating characteristics appear in Processing the Three Major Oilseeds and (Marketing Research Report No. 58) and Marketing Activities, June - August 1954, United States Department of Agriculture, Agricultural Marketing Service. Many oil mills perform a considerable amount of warehousing functions because of the storage facilities attached to the plants; the establishment statistics appearing in Tables 1 to 5 exclude value and cost of merchandising but these activities are reflected mainly in employment and inventory statistics for such activities. (See Introduction.)

Activities at the vegetable oil mills are seasonal. Receipts at mills are heavier during the season when the farmer harvests and markets the seed or bean. Crushing of cottonseed generally begins as soon as sufficient seed is on hand to insure continuous operation and about two thirds of the total crush occurs during the 5-month period beginning in October. In contrast, crushing of soybeans is relatively stable throughout the year, while more than half of the beans are received during the 3-month period beginning in October. Details concerning the seasonality of employment appear in Table 3. Monthly data relating to receipts of raw materials and quantities crushed are published by the (Census Bureau) Facts for Industry Series M17-1, Fats and Oils. Information regarding the consumption of fats and oils by class of product also appears in Facts for Industry Series M17-2, Fats and Oils Consumption by End Uses. For most of the products shown in Table 6A, the production figures are in rather close agreement with those compiled and published each month in Facts for Industry Series M17 (for a detailed comparison, see Series M17-1-04). Differences are attributable mainly to fiscal year reporting by a number of large companies in the 1954 Census of Manufactures. Variations in reporting, minor differences in coverage, and misinterpretation of reporting instructions (the census statistics for refined oils include some small quantities of cooking oils and salad oils, which should have been reported as such) are other factors affecting comparability of data from the two surveys.

#### 2881 - Cottonseed Oil Mills

This industry comprises establishments primarily engaged in manufacturing cottonseed oil and byproduct cake, meal, and linters. Establishments primarily engaged in refining cottonseed oil into edible cooking oils are classified in Industry 2092, Shortening and Cooking Oils, or Industry 2093, Margarine. For a detailed list of primary products of Industry 2881, refer to Table 6A, product codes 2881011 to 2881098.

The value of shipments of Industry 2881, Cottonseed Oil Mills, in 1954 totaled \$546 million. This included shipments of primary products (cottonseed oil, cake and meal, linters and hulls) valued at \$520 million, shipments of secondary products valued at \$22 million, and miscellaneous receipts (mainly contract work on material owned by others) of about \$4 million.

Industry 2881 shipments of cottonseed oil mill products in 1954 represented 96 percent of its total product shipments (primary and secondary). In 1947, this primary product specialization ratio was 90. Secondary products shipped by Industry 2881 in 1954 consisted mainly of soybean oil and meal, \$8 million; mixed fertilizers, \$5 million; and livestock feeds, \$4 million.

Industry 2881 shipments of cottonseed oil mill products in 1954 represented 93 percent of the cottonseed oil mill products, valued at \$560 million shipped by all industries. In 1947, this coverage ratio was 90. Other industries shipping cottonseed oil mill products in 1954 consisted mainly of Industry 2092, Shortening and Cooking Oils, \$22 million; and Industry 2884, Vegetable Oil Mills, N.E.C., \$12 million.

Refined cottonseed oil production (including captive production by establishments which consume the refined oil in manufacturing edible oils and margarine) in 1954 totaled 1,687 million pounds. Of this total, 26 percent was for commercial sale, 1 percent for interplant transfer, and 80 percent for consumption in the same plant, (over 100 percent because of declines in physical inventory during the year). On the basis of total production, Industry 2881 accounted for 13 percent of the total output of refined cottonseed oil; Industry 2092, Shortening and Cooking Oils, 77 percent; Industry 2884, Vegetable Oil Mills, N.E.C., 4 percent; and the remainder by other industries.

Some variation in output among plants occurred because of the equipment used. Historically, the cottonseed processing industry has been primarily a hydraulic press industry, but in the last few years the trend has been toward the more efficient methods of screw press and solvent extraction. Data showing the number of presses, quantities of seed crushed and oil produced for 1954 by method of extraction appear in Tables 9A and 9B. Data for prior periods appear in the United States Department of Agriculture publications, Cottonseed Oil, Mill Characteristics, and Marketing Practices (Agriculture Information Bulletin No. 79), December 1951, and Processing the Three Major Oil Seeds (Marketing Research Report No. 58), April 1954.

#### 2882 - Linseed Oil Mills

This industry comprises establishments primarily engaged in manufacturing linseed oil and byproduct cake and meal. Plants primarily engaged in processing linseed oil (boiled, blown or chemical modified) are also classified in Industry 2882 but those primarily engaged in producing edible cooking oils are classified in Industry 2092, Shortening and Cooking Oils. For a detailed list of primary products of Industry 2882, refer to Table 6A, product codes 2882011 to 2882051.

The value of shipments of Industry 2882, Linseed Oil Mills, in 1954 totaled \$140 million. This included shipments of primary products (linseed oil and meal) valued at \$131 million, shipments of secondary products valued at \$8 million, and miscellaneous receipts of less than \$100 thousand.

Industry 2882 shipments of linseed oil and meal in 1954 represented 94 percent of its total product shipments (primary and secondary). In 1947, this primary product specialization ratio was 77 percent. Secondary products shipped by Industry 2882 in 1954 consisted mainly of formulated paint vehicles and other vegetable oils, totaling \$8 million.

Industry 2882 shipments of linseed oil and cake in 1954 represented 90 percent of the linseed oil mill products, valued at \$146 million, shipped by all industries. This coverage ratio in 1947 was 87 percent. Other plants shipping linseed oil mill products in 1954 were classified mainly in Industry 2883, Soybean Oil Mills.

About one half of the flaxseed is processed by the screw press method. While separate product statistics for refined linseed were not compiled in the 1954 Census of Manufactures reports, such data are published by the Bureau of the Census in Facts for Industry Series M17-1, Fats and Oils; this report also contains statistics showing receipts of seed, quantities crushed and seeds held at mill by months, as well as data relating to oil and cake and meal production.



### 2883 - Soybean Oil Mills

This industry comprises establishments primarily engaged in manufacturing soybean oil and byproduct cake and meal. Establishments primarily engaged in refining soybean oil into edible cooking oils are classified in Industry 2092, Shortening and Cooking Oils, or Industry 2093, Margarine. For a detailed list of primary products of Industry 2883, refer to Table 6A, product codes 2883011 to 2883098.

The value of shipments of Industry 2883, Soybean Oil Mills, in 1954 totaled \$826 million. This included shipments of primary products (soybean oil, meal and lecithin) valued at \$730 million, shipments of secondary products valued at \$95 million, and miscellaneous receipts of about \$1 million.

Industry 2883 shipments of soybean oil mill products (primary products) in 1954 represented 88 percent of its total product shipments (primary and secondary). In 1947, this primary product specialization ratio was 96 percent. Secondary products shipped by Industry 2883 in 1954 consisted mainly of prepared animal feeds, \$47 million; shortening and salad oils, \$8 million; and other secondary products, including linseed oils and meals, and other vegetable oils and meals, \$40 million. The increase from 1947 in shipments of prepared animal feeds partly reflects the effects of changes in method of oilseed processing (see below).

Industry 2883 shipments of soybean oil mill products in 1954 represented 96 percent of the soybean oil mill products, valued at \$763 million, shipped by all industries. This coverage ratio in 1947 was 80 percent. Other industries shipping soybean oil mill products in 1954 consisted mainly of Industry 2881, Cottonseed Oil Mills, \$8 million; and other industries including Industry 2092, Shortening and Cooking Oils, \$24 million.

Aggregate output of refined soybean oil (including captive production by establishments which consume the refined oil in manufacturing edible oils and margarine) in 1954 was 2,090 million pounds. Of this total, 11 percent was for commercial sale, and 91 percent for consumption in the same plant, (over 100 percent, because of declines in physical inventory).

On an aggregate basis, Industry 2883 accounted for 8 percent of the total output of refined soybean oil; and Industry 2092, Shortening and Cooking Oils, 86 percent.

In contrast to the other principal vegetable-oil-bearing materials, soybeans are processed principally by the solvent extraction method, which yields more oil per unit of material consumed (see Table 9B below). The quantities processed by the solvent extraction method rose from 27 percent of the 1946-1947 season crush to 93 percent in 1954. The meal obtained by the solvent extraction process contains less oil than that obtained by the hydraulic or screw presses and generally sells for less per pound.

### 2884 - Vegetable Oil Mills, Not Elsewhere Classified

This industry comprises establishments primarily engaged in manufacturing vegetable oils such as tung oil, castor oil, palm kernel oil, peanut oil, coconut oil, and other vegetable oils, not elsewhere classified, and byproduct cake and meal. Establishments primarily engaged in refining vegetable oils into edible cooking oils are classified in Industry 2092, Shortening and Cooking Oils, and Industry 2093, Margarine, and those refining these oils for medicinal purposes in Industry 2833, Medicinal Chemicals. Establishments primarily engaged in shelling peanuts are excluded from manufacturing and classified in trade industries.

For a detailed list of primary products of Industry 2884, refer to Table 6A, product codes 2884011 to 2884098.

The value of shipments of Industry 2884, Vegetable Oil Mills, N.E.C., in 1954 totaled \$166 million. This included shipments of primary products (vegetable oils and meals, n.e.c.) valued at \$90 million, shipments of secondary products valued at \$64 million, and miscellaneous receipts (mainly from non-manufacturing activities such as peanut shelling) of \$12 million.

Industry 2884 shipments of primary products in 1954 represented 58 percent of its total product shipments (primary and secondary). In 1947, this primary product specialization ratio was 80 percent. Secondary products shipped by Industry 2884 in 1954 consisted mainly of cottonseed, and soybean oil mill products \$16 million, shortening and salad oils \$21 million, and fatty acids, \$4 million.

Industry 2884 shipments of primary products, (vegetable oils and cake and meal, n.e.c.) in 1954 represented 80 percent of these products valued at \$113 million, shipped by all industries. This coverage ratio in 1947 was 89 percent. Other industries shipping vegetable oil mill products, n.e.c., in 1954 consisted mainly of Industry 2092, Shortening and Cooking Oils, \$11 million.

The aggregate output of vegetable oils, n.e.c., in 1954 significantly exceeded shipments of peanut, coconut, castor bean, and babassu oils (see Table 6A) because of captive production by establishments which consume the crude or refined oils in further processing operations. On an aggregate basis, the 1954 coverage ratio of Industry 2884 would be somewhat less than the ratio given above as derived from shipment data.

### 2886 - Grease and Tallow

This industry comprises establishments primarily engaged in rendering inedible grease and tallow from animal fat, bones, and meat scraps. Plants classified in this industry usually render grease and tallow from secondary sources, such as materials from restaurants and butcher shops, and from dead stock. Tankage, meat scraps and bonemeal for feed or fertilizer are important byproducts of the rendering process. Establishments primarily engaged in manufacturing lard and other edible animal fats are classified in Major Group 20, Food and Kindred Products, and those primarily producing processed tankage (digested inert organic nitrogenous waste materials such as felt, wool, hair, and feathers) and activated sewage sludge are classified in Industry 2871, Fertilizers. For a detailed list of primary products of Industry 2886, refer to Table 6A, product codes 2886111 to 2886298.

The value of shipments of Industry 2886, Grease and Tallow, in 1954 totaled \$223 million. This included shipments of primary products (grease, tallow, and byproducts) valued at \$195 million, shipments of secondary products valued at \$26 million, and miscellaneous receipts of about \$1 million.

Industry 2886 shipments of grease, tallow and byproducts (primary products) in 1954 represented 88 percent of its total product shipments (primary and secondary). In 1947, this primary product specialization ratio was 90 percent. Secondary products shipped by this industry in 1954 consisted mainly of hides, skins, and pelts, \$15 million, and fertilizer materials of organic origin, \$3 million.

Industry 2886 shipments of primary products (grease, tallow and byproducts) in 1954 represented 55 percent of these products, valued at \$183 million, shipped by all industries. This coverage ratio for 1947 was 52 percent. The principal other industry shipping grease, tallow, and byproducts in 1954 was Industry 2011, Meat Packing, \$142 million.

Since January 1955, monthly data on grease and tallow rendered in meat packing plants have been published by the Census Bureau in Facts for Industry Series M17-1, Fats and Oils.

In rendering inedible animal wastes, there is a residual, commonly known as tankage, which may be further processed either in the same or other establishments to produce such materials as meat scraps and meat meal. Since 1947, the dollar shipments of tankage and tankage products have accounted for a larger proportion of renders' total shipments. Data showing the monthly production of meat scraps and digester or feed tankage are published by the Agricultural Marketing Service, United States Department of Agriculture.

### 2887 - Fatty Acids

This industry comprises establishments primarily engaged in manufacturing fatty acids such as stearic acid, oleic acid,

fish and marine fatty acids, coconut-type fatty acids, and other unsaturated fatty acids fractionated from vegetable and animal oils and fats. Establishments primarily engaged in manufacturing low rosin fatty acids are classified in Industry 2611, Pulp Mills, and synthetic organic fatty acids in Industry 2829, Organic Chemicals, N.E.C. For a detailed list of products of Industry 2887, refer to Table 6A, product codes 2887011 to 2887081.

The value of shipments of Industry 2887 in 1954 totaled \$56 million. This included shipments of primary products (fatty acids) valued at \$38 million, and shipments of secondary products valued at \$18 million.

Industry 2887 shipments of fatty acids in 1954 represented 68 percent of its total product shipments (primary and secondary). In 1947, this primary product specialization ratio was 86 percent. Secondary products shipped by Industry 2887 consisted mainly of glycerin, \$5 million; and other secondary products including miscellaneous acyclic chemicals and other organic chemicals and sulfonated oils and fats, \$13 million.

Industry 2887 shipments of fatty acids in 1954 represented 73 percent of the fatty acids, valued at \$52 million, shipped by all industries. This coverage ratio in 1947 was 76 percent. Production data and the measure of coverage exclude the quantities of fatty acids produced and consumed in soap manufacturing plants.

#### 2889 - Animal Oils, Not Elsewhere Classified

This industry comprises establishments primarily engaged in manufacturing fish oils, marine animal oils and other animal oils, not elsewhere classified. Establishments primarily engaged in refining these oils for medicinal purposes are classified in Industry 2833, Medicinal Chemicals. For a detailed list of

products of Industry 2889, refer to Table 6A, product codes 2889111 to 2889398.

The present Industry 2889 represents a combination of two industries classified separately in the 1947 Census as Industry 2885, Marine Animal Oils, and Industry 2889, Animal Oils, N.E.C. The 1945 edition of the Standard Industrial Classification was amended by the Bureau of the Budget to put the combination into effect.

The value of shipments of Industry 2889, Animal Oils, N.E.C., in 1954 totaled \$65 million. This included shipments of primary products (animal oils, n.e.c., soap stock and marine animal oils), valued at \$58 million, shipments of secondary products valued at \$7 million, and miscellaneous receipts of less than \$1 million.

Industry 2889 shipments of primary products in 1954 represented 89 percent of its total product shipments (primary and secondary). In 1947, this primary product specialization ratio was 94 percent. Secondary products shipped by Industry 2889 in 1954 consisted mainly of fatty acids, \$4 million, and other secondary products, \$3 million.

Industry 2889 shipments of primary products (animal oils, n.e.c.) in 1954 represented 66 percent of these products, valued at \$88 million, shipped by all industries. This coverage ratio in 1947 was 39 percent. The change in coverage ratio is primarily caused by the fact that in 1954 data for edible and inedible stearin were reported separately and considered primary to Industries 2011 and 2889. Such distinctions were not made in 1947. Other industries shipping animal oils, n.e.c., consisted mainly of Industry 2011, Meat Packing, and Industry 2092, Shortening and Cooking Oils, the totals of these and other industries being \$30 million.

The general statistics (employment, payrolls, value of shipments, cost of materials, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products, and, for that matter, their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (Tables 1-4) with product statistics (Table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in Table 5A which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry made as secondary products by establishments classified in other industries.



## VEGETABLE AND ANIMAL OILS

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Table 1.—GENERAL STATISTICS FOR THE UNITED STATES: 1954 AND EARLIER YEARS

(For explanation of column captions see Introduction)

Industry and census year	Establishments, number	All employees		Production workers		Value added by manufacture <sup>2</sup> (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments <sup>3</sup> (\$1,000)
		Number <sup>1</sup>	Payroll (\$1,000)	Number <sup>1</sup>	Wages (\$1,000)			
Cottonseed oil mills (S.I.C. 2881):								
1954.....	286	13,665	43,103	11,082	29,831	101,164	445,265	546,430
1953 <sup>4</sup> .....	(NA)	14,430	43,599	11,736	30,847	121,333	534,310	655,643
1952 <sup>4</sup> .....	(NA)	14,488	41,706	11,741	30,011	95,079	485,427	580,506
1951 <sup>4</sup> .....	(NA)	14,150	38,694	11,556	27,500	115,515	460,301	575,816
1950 <sup>4</sup> .....	(NA)	15,231	39,073	12,795	28,652	110,373	361,018	471,391
1949 <sup>4</sup> .....	(NA)	15,533	36,991	12,959	27,753	84,896	378,062	462,958
1947.....	315	14,398	31,419	12,136	22,560	104,603	413,488	518,091
1939.....	447	18,519	14,881	15,191	8,939	32,712	138,764	171,476
1937.....	447	19,369	14,182	16,583	8,552	46,296	195,747	242,043
1935.....	458	15,695	10,631	13,226	5,912	27,335	160,552	187,887
1933.....	475	16,473	9,001	14,242	5,376	25,983	78,229	104,212
1931.....	504	(NA)	(NA)	12,268	8,335	34,182	147,165	181,347
1929.....	553	19,005	17,936	15,825	11,203	49,356	249,020	298,376
1927.....	547	21,606	20,972	18,434	14,259	56,300	220,038	276,338
1925.....	535	19,156	17,630	16,215	11,412	51,370	244,315	295,685
1923.....	511	15,924	14,037	12,745	7,908	28,873	197,515	226,388
1921.....	610	19,656	19,686	16,163	12,340	22,361	194,864	217,225
1919.....	711	32,048	30,551	26,766	20,615	86,053	495,192	581,245
1914.....	882	26,867	14,409	21,810	8,490	31,151	180,976	212,127
1909.....	817	21,163	10,130	17,071	5,835	28,035	119,833	147,868
1904.....	715	18,769	7,900	15,540	4,838	16,378	80,030	96,408
1899.....	369	12,576	4,723	11,007	3,143	13,561	45,166	58,727
Linseed oil mills (S.I.C. 2882):								
1954.....	12	1,263	5,625	1,026	4,860	16,679	122,940	139,619
1953 <sup>4</sup> .....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1952 <sup>4</sup> .....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1951 <sup>4</sup> .....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1950 <sup>4</sup> .....	(NA)	1,819	6,501	1,534	5,191	27,030	147,266	174,296
1949 <sup>4</sup> .....	(NA)	2,160	8,472	1,791	5,365	40,819	176,715	217,534
1947.....	17	1,577	4,536	1,349	3,628	42,243	149,930	192,173
1939.....	25	2,388	3,782	2,120	3,193	11,556	56,456	68,012
1937.....	23	2,859	4,126	2,628	3,591	15,876	74,481	90,357
1935.....	25	2,594	3,162	2,350	2,650	11,449	48,815	60,264
1933.....	22	1,769	2,003	1,625	1,684	6,610	33,853	40,463
1931.....	28	(NA)	(NA)	1,837	2,278	12,577	50,306	62,883
1929.....	29	2,947	4,735	2,715	4,098	18,466	92,860	111,326
1927.....	33	3,024	5,249	2,718	4,325	13,794	97,750	111,544
1925.....	33	2,956	5,137	2,692	4,290	18,752	121,762	140,514
1923.....	34	2,882	4,648	2,631	3,784	10,531	102,690	113,221
1921.....	28	2,519	4,472	2,073	3,019	12,580	58,452	71,032
1919.....	26	2,747	4,462	2,173	3,052	20,060	100,578	120,638
1914.....	25	1,983	2,053	1,488	1,127	5,328	39,555	44,883
1909.....	29	1,744	1,632	1,452	893	5,704	31,035	36,739
1904.....	30	1,505	1,209	1,349	786	4,424	23,153	27,577
1899.....	48	1,613	1,140	1,328	693	2,788	24,396	27,184
Soybean oil mills (S.I.C. 2883):								
1954.....	88	6,922	29,453	5,447	20,679	106,938	719,422	826,362
1953 <sup>4</sup> .....	(NA)	5,804	24,380	4,455	17,356	70,912	554,752	625,664
1951 <sup>4</sup> .....	(NA)	7,655	28,289	5,951	20,745	113,012	693,792	806,804
1950 <sup>4</sup> .....	(NA)	6,829	22,795	5,334	17,036	114,445	482,570	597,015
1949 <sup>4</sup> .....	(NA)	6,264	20,141	4,708	14,184	90,725	435,843	526,568
1947.....	133	6,460	18,773	5,076	13,489	105,291	480,418	585,709
1939 <sup>5</sup> .....	47	2,010	2,851	1,481	1,889	9,512	34,435	43,947
1937 <sup>6</sup> .....	26	(NA)	(NA)	871	1,192	4,362	19,950	24,312
Vegetable oil mills, n.e.c. (S.I.C. 2884):								
1954.....	51	2,460	9,198	1,893	6,337	21,240	144,740	165,982
1947.....	84	5,036	13,356	4,292	9,873	77,509	256,722	334,231
1939 <sup>7</sup> .....	38	(NA)	(NA)	860	899	3,681	15,541	19,222
Grease and tallow (S.I.C. 2886):								
1954 <sup>4</sup> .....	500	11,466	46,633	8,480	31,291	95,451	127,072	222,516
1953 <sup>4</sup> .....	(NA)	11,597	45,894	9,033	33,979	88,564	124,400	212,964
1952 <sup>4</sup> .....	(NA)	10,636	41,413	8,459	30,091	76,071	107,337	181,377
1951 <sup>4</sup> .....	(NA)	11,452	41,453	9,069	30,038	106,038	170,644	274,651
1950 <sup>4</sup> .....	(NA)	12,331	40,592	9,673	29,220	90,176	143,242	231,378
1949 <sup>4</sup> .....	(NA)	11,656	37,506	8,847	26,373	75,761	120,089	193,864
1947.....	554	12,364	38,588	9,967	28,419	118,356	186,751	303,291
1939.....	310	6,536	9,596	5,201	6,509	20,111	38,115	58,226

See footnotes at end of table.



## MANUFACTURES--INDUSTRY STATISTICS

Table 1.—GENERAL STATISTICS FOR THE UNITED STATES: 1954 AND EARLIER YEARS—Continued  
(For explanation of column captions see Introduction)

Industry and census year	Establishments, number	All employees		Production workers		Value added by manufacture <sup>2</sup> (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments <sup>3</sup> (\$1,000)
		Number <sup>1</sup>	Payroll (\$1,000)	Number <sup>1</sup>	Wages (\$1,000)			
Grease and tallow—Con.								
1937.....	266	6,078	9,022	5,200	6,763	19,289	32,980	52,269
1935.....	259	5,713	7,701	4,761	5,390	17,622	22,214	39,836
1933.....	201	4,682	5,255	3,988	4,099	12,097	14,141	26,238
1931.....	238	(NA)	(NA)	4,067	5,225	11,708	17,533	29,241
1929.....	297	6,434	10,477	5,475	7,862	21,466	40,142	61,608
1927.....	247	6,102	10,213	5,052	7,403	18,008	38,272	56,280
1925.....	263	6,278	9,808	5,303	7,508	17,729	33,713	51,442
1923.....	254	6,244	9,198	5,248	7,004	17,359	31,275	48,634
1921.....	265	5,284	7,032	4,428	5,429	9,419	17,787	27,206
1919.....	482	7,822	9,959	6,647	7,954	19,509	47,756	67,265
1914.....	369	5,890	4,541	5,106	3,512	7,840	17,061	24,901
1909.....	353	5,140	3,620	4,357	2,629	7,876	15,543	23,419
1904.....	300	4,109	2,697	3,628	2,114	6,446	12,369	18,815
1899.....	287	2,296	1,333	2,040	1,067	3,201	8,752	11,953
Fatty acids (S.I.C. 2887):								
1954.....	15	1,891	10,263	1,185	6,009	21,922	34,069	55,991
1952 <sup>4</sup> .....	(NA)	2,068	10,195	1,382	6,384	18,569	20,957	39,526
1951 <sup>4</sup> .....	(NA)	2,194	9,773	1,508	6,255	18,876	52,567	71,443
1950 <sup>4</sup> .....	(NA)	1,763	7,024	1,245	4,615	17,616	34,012	51,628
1949 <sup>4</sup> .....	(NA)	1,726	6,666	1,229	4,291	14,512	26,509	41,021
1947.....	16	1,335	4,433	1,037	3,055	17,151	50,943	68,094
1939.....	9	(NA)	(NA)	522	723	2,813	6,650	9,463
Animal oils, n.e.c. <sup>8</sup> (S.I.C. 2889):								
1954.....	61	2,294	8,430	1,889	6,282	22,079	43,294	65,374
1947.....	73	2,153	5,821	1,931	4,727	16,849	26,091	42,940
1939.....	86	(NA)	(NA)	1,667	1,493	6,400	14,508	20,908

NA Not available.

<sup>1</sup>For 1954, the figure for all employees represents the average number for the payroll period ended nearest the fifteenth of each month; the figure for production workers was calculated by subtracting from this all employees total the average number of nonproduction employees for the four months for which such information was collected: March, May, August and November. However, for the Grease and Tallow Industry both all employees and production workers for 1954 are based on average employment for March, May, August and November. For the period 1949-1953, both figures were calculated in this way for all the industries shown in this table. For 1947, all employees and production workers were both derived from 12 monthly figures. For earlier years, the production worker average was calculated as in 1947, but the figure for all employees represents the sum of the annual average number of production workers and the number of nonproduction employees for one payroll period (usually in October).

<sup>2</sup>Value of products less cost of materials, supplies, fuel, electric energy and contract work. See Introduction, "Value Added by Manufacture." For the "Grease and tallow" industry, 1947 value added by manufacture does not equal the published value of shipments less cost of materials, etc. because an estimated value of production was used in the calculation in place of value of shipments. Since the 1949-1952 estimates were derived from 1947 base totals, the same inequality exists for these years.

<sup>3</sup>For 1929 and 1947-1954, value of shipments; for all other years, value of production. See Introduction, "Value of Shipments."

<sup>4</sup>The figures for 1949-1953 represent estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period. Estimates with a standard error in excess of 15 percent generally have been omitted from this table.

<sup>5</sup>Figures for 1939 exclude data for two establishments primarily engaged in making soy flour in order to avoid disclosing their operations. These establishments are included in "Flour and meal" for 1939.

<sup>6</sup>"Soybean oil mills" were formerly included with the discontinued industry "Oils, n.e.c." Separate figures are not available for years prior to 1937.

<sup>7</sup>The 1939 data have been retabulated to provide figures comparable with those for 1947. No comparable figures are available for prior years.

<sup>8</sup>Includes data for plants previously classified in Industry 2885, Marine Animal Oils.

## VEGETABLE AND ANIMAL OILS

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Table 2.—GENERAL STATISTICS BY REGIONS AND STATES: 1954 AND 1947  
(For explanation of column captions see Introduction)

Industry, region, and State <sup>1</sup>	1954											1947	
	Establishments, number		All employees		Production workers			Value added by manufacture	Cost of materials, etc.	Value of shipments	Capital expenditures, new	All employees, number	Value added by manufacture
	Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)		(\$1,000)
Cottonseed oil mills (S.I.C. 2881), total.....	286	238	13,665	43,103	11,082	27,080	29,831	101,164	44,526	546,430	11,680	14,398	104,603
South Atlantic.....	71	54	2,749	6,962	2,256	5,103	4,705	11,033	57,096	68,129	2,224	2,904	(D)
Georgia.....	27	21	1,295	3,219	1,084	2,368	2,289	4,944	28,963	33,907	834	1,123	6,713
East south Central.....	69	65	3,717	11,012	3,012	7,279	7,470	26,640	113,175	139,815	20,24	4,012	(D)
Tennessee.....	13	13	1,015	3,494	800	2,084	2,480	9,163	36,070	45,233	(D)	1,135	(D)
Alabama.....	21	18	883	2,462	716	1,608	1,592	3,932	19,433	23,365	(D)	961	6,362
Mississippi.....	35	34	1,818	5,055	1,495	3,586	3,397	13,545	57,672	71,217	895	1,916	12,175
West South Central.....	122	99	5,301	16,690	4,312	11,216	11,935	39,273	194,280	233,555	5,395	6,448	(D)
Arkansas.....	15	14	1,008	3,193	836	2,013	2,267	7,951	32,437	40,389	1,987	1,568	(D)
Louisiana.....	14	12	580	1,824	471	1,294	1,306	3,450	15,560	19,011	504	542	3,219
Oklahoma.....	9	8	327	815	292	583	652	2,618	7,536	10,155	183	621	3,998
Texas.....	84	65	3,385	10,856	2,713	7,325	7,709	25,252	138,747	164,000	2,720	3,717	26,152
All other divisions.....	24	20	1,897	8,438	1,501	3,480	5,720	24,218	80,713	104,931	2,036	1,034	(D)
California.....	13	9	950	4,702	748	1,687	3,133	12,353	44,552	56,906	1,050	529	8,825
Linseed oil mills (S.I.C. 2882), total.....	12	11	1,263	5,625	1,026	2,479	4,860	16,679	122,940	139,619	1,311	1,577	42,243
West North Central.....	5	5	835	3,729	650	1,695	3,282	11,652	88,839	100,491	809	(D)	(D)
Minnesota.....	5	5	835	3,729	650	1,695	3,282	11,652	88,839	100,491	809	872	31,521
All other divisions.....	7	6	428	1,896	376	784	1,578	5,027	34,101	39,128	502	(D)	(D)
Soybean oil mills (S.I.C. 2883), total.....	88	69	6,922	29,453	5,447	11,624	20,679	106,938	719,422	826,362	8,479	6,460	
East North Central.....	35	32	4,286	19,074	3,303	7,196	13,378	65,470	459,256	524,729	4,365	3,769	72,709
Ohio.....	10	9	808	3,263	622	1,293	2,363	13,283	74,221	87,505	769	769	9,715
Indiana.....	4	4	650	2,727	497	1,066	1,986	10,785	82,479	93,264	577	381	5,575
Illinois.....	21	19	2,826	13,084	2,183	4,836	9,028	41,402	302,556	343,960	3,018	2,555	56,611
West North Central.....	37	28	1,898	7,462	1,534	3,054	5,037	22,336	216,782	239,119	3,566	1,365	20,194
Minnesota.....	6	4	302	1,247	260	609	1,006	4,361	49,345	53,706	202	35	(D)
Iowa.....	20	16	1,122	4,242	976	1,811	3,013	11,534	124,848	136,382	1,780	1,074	16,123
Missouri.....	5	5	344	1,539	187	416	676	4,902	31,063	35,965	1,041	72	(D)
South.....	11	6	390	1,300	315	723	954	3,494	31,155	34,650	480	(D)	(D)
All other divisions.....	5	3	348	1,615	293	650	1,308	15,636	12,226	27,863	66	(D)	(D)
Vegetable oil mills, n.e.c. (S.I.C. 2884), total.....	51	25	2,460	9,198	1,893	4,041	6,337	21,240	144,740	165,982	2,470	5,036	77,509
Northeast and North central.....	8	7	1,165	4,631	834	1,729	3,054	11,517	65,726	77,243	1,537	1,362	33,116
South Atlantic.....	13	8	670	1,945	559	1,160	1,413	4,755	24,321	29,077	(D)	1,246	7,280
Georgia.....	5	4	232	522	201	432	429	1,298	8,451	9,750	30	978	4,382
East South Central.....	4	1	44	187	39	106	154	169	861	1,031	12	611	3,939
West South Central.....	13	2	183	465	155	329	365	1,210	6,244	7,455	(D)	792	4,636
West.....	13	7	396	1,969	305	715	1,351	3,589	47,586	51,176	345	1,025	28,538
Grease and tallow (S.I.C. 2886), total.....	500	144	11,466	46,633	8,480	19,567	31,291	95,451	127,072	222,516	8,138	12,364	118,356
New England.....	22	13	677	2,717	538	1,139	2,089	7,027	8,965	15,993	369	(D)	(D)
Massachusetts.....	11	8	360	1,429	262	539	1,023	3,474	5,863	9,337	64	499	(D)
Middle Atlantic.....	93	29	2,823	12,255	2,030	4,510	8,073	21,148	36,483	57,632	2,818	3,063	(D)
New York.....	32	12	677	5,912	1,024	2,295	4,366	10,629	17,956	28,585	700	1,439	22,926
New Jersey.....	16	6	1,293	2,958	463	990	1,853	3,642	7,377	11,020	143	700	6,677
Pennsylvania.....	45	11	852	3,385	543	1,224	1,853	6,877	11,149	18,026	1,975	924	(D)
North Central.....	202	46	4,382	17,553	3,162	7,365	11,868	37,434	46,272	83,699	2,747	5,684	47,542
Ohio.....	23	6	710	3,040	475	1,074	1,941	6,123	9,456	15,580	(D)	1,211	9,619
Illinois.....	18	8	840	3,549	589	1,393	2,409	8,804	14,686	23,491	356	1,599	14,050
Wisconsin.....	21	5	292	1,154	238	589	883	2,260	4,948	7,209	521	284	(D)
Minnesota.....	21	3	301	1,059	225	594	728	2,426	1,284	3,711	193	343	2,738
Iowa.....	44	5	622	2,203	446	1,051	1,473	4,771	3,528	8,292	346	474	5,456
Kansas.....	7	3	141	526	89	195	297	929	1,288	2,217	100	264	2,223

See footnotes at end of table.

## MANUFACTURES--INDUSTRY STATISTICS

Table 2.—GENERAL STATISTICS BY REGIONS AND STATES: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Industry, region, and State <sup>1</sup>	1954										1947		
	Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
	Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
Grease—Con.													
South Atlantic.....	48	21	1,150	3,985	871	2,178	2,447	9,088	9,013	18,102	(D)	751	5,143
North Carolina.....	9	4	277	750	167	399	409	2,451	1,178	3,630	190	83	(D)
Georgia.....	8	5	193	701	148	369	374	1,665	2,987	4,652	42	80	(D)
Florida.....	8	3	182	721	149	389	451	1,666	1,081	2,748	129	109	1,085
East South Central.....	23	5	296	850	229	581	603	1,761	1,450	3,211	(D)	130	515
West South Central.....	35	12	632	1,998	512	1,286	1,386	4,262	5,350	9,613	315	578	4,080
Mountain.....	22	3	266	1,032	193	463	688	2,585	2,413	4,999	173	292	2,308
Pacific.....	55	15	1,238	6,241	942	2,043	4,133	12,143	17,122	29,266	949	1,090	11,020
California.....	35	14	1,044	5,373	780	1,677	3,512	10,438	14,819	25,257	809	857	9,388
Fatty acids (S.I.C. 2887), total.....	15	12	1,891	10,263	1,185	2,712	6,009	21,922	34,069	55,991	4,819	1,335	17,151
Middle Atlantic.....	4	4	374	1,938	268	635	1,256	3,175	6,057	9,233	617	397	4,785
East North Central.....	7	6	1,391	7,680	818	1,847	4,358	17,358	25,377	42,735	3,576	(D)	(D)
South and West.....	4	2	125	644	98	229	394	1,388	2,633	4,022	625	(D)	(D)
Animal oils, n.e.c. (S.I.C. 2889), total.....	61	37	2,294	8,430	1,889	4,384	6,282	22,079	43,294	65,374	4,544	2,153	16,849
New England.....	10	4	167	702	137	343	585	1,130	2,519	3,649	67	446	1,684
Middle Atlantic.....	11	8	446	1,789	393	967	1,465	7,261	14,630	21,892	2,360		
New Jersey.....	6	4	313	1,185	277	669	1,019	5,037	11,221	16,259	2,076		
All other Divisions.....	40	25	1,681	5,939	1,359	3,074	4,231	13,688	26,145	39,833	2,117	1,707	12,887
Virginia.....	3	3	163	512	143	353	466	1,226	3,415	4,641	314	318	1,487
North Carolina.....	6	5	286	720	215	477	480	950	1,451	2,401	20	187	915
Louisiana.....	4	4	230	825	194	494	584	2,561	4,833	7,395	245	(D)	(D)
California.....	8	3	159	987	65	157	325	1,107	2,578	3,686	31	(D)	(D)

Note: Detailed figures may not add to the totals because of independent rounding.

<sup>1</sup> Withheld to avoid disclosing figures for individual companies.<sup>2</sup> General statistics for some producing States are not shown separately in the table (See INTRODUCTION "Confidentiality of Data for Individual Companies"). Such States are shown below with the number of establishments in each State for 1954 and, in parentheses, the number of employees or the employment-size range for that State for 1954:

S.I.C. 2881, Cottonseed Oil Mills: South Atlantic—North Carolina, 20 (500-999); South Carolina, 24 (500-999); All Other Divisions—Illinois, 1 (20-99); Missouri, 1 (20-99); New Mexico, 3 (100-249); Arizona, 6 (500-999).

S.I.C. 2882, Linseed Oil Mills: All Other Divisions—New York, 2 (100-249); Pennsylvania, 1 (20-99); Ohio, 1 (100-249); Texas, 1 (20-99); Montana, 1 (1-19); California, 1 (20-99).

S.I.C. 2883, Soybean Oil Mills: West North Central—Nebraska, 2 (20-99); Kansas, 4 (20-99); South—Delaware, 1 (1-19); North Carolina, 1 (1-19); Florida, 1 (20-99); Kentucky, 3 (100-249); Tennessee, 3 (20-99); Alabama, 1 (1-19); Arkansas, 1 (1-19); All Other Divisions—New Jersey, 2 (250-499); California, 3 (20-99).

S.I.C. 2884, Vegetable Oil Mills, N.E.C.: Northeast and North Central—New York, 1 (20-99); New Jersey, 4 (500-999); Pennsylvania, 1 (1-19); Ohio, 1 (20-99); Missouri, 1 (100-249); South Atlantic—Maryland, 2 (20-99); Virginia, 2 (100-249); Florida, 4 (100-249); East South Central—Alabama, 2 (20-99); Mississippi, 2 (1-19); West South Central—Louisiana, 5 (20-99); Oklahoma, 4 (20-99); Texas, 4 (20-99); West—New Mexico, 1 (20-99); Arizona, 1 (1-19); Washington, 1 (1-19); California, 10 (250-499).

S.I.C. 2886, Grease and Tallow: New England—Maine, 3 (20-99); New Hampshire, 1 (20-99); Vermont, 1 (1-19); Rhode Island, 4 (20-99); Connecticut, 2 (100-249); North Central—Indiana, 20 (250-499); Michigan, 13 (500-999); Missouri, 12 (100-249); North Dakota, 1 (1-19); South Dakota, 5 (20-99); Nebraska, 17 (100-249); South Atlantic—Delaware, 2 (1-19); Maryland, 9 (100-249); District of Columbia, 1 (20-99); Virginia, 8 (100-249); West Virginia, 2 (1-19); South Carolina, 1 (1-19); East South Central—Kentucky, 6 (20-99); Tennessee, 9 (20-99); Alabama, 4 (20-99); Mississippi, 4 (20-99); West South Central—Arkansas, 6 (20-99); Louisiana, 4 (20-99); Oklahoma, 5 (20-99); Texas, 20 (250-499); Mountain—Montana, 3 (1-19); Idaho, 2 (20-99); Wyoming, 1 (1-19); Colorado, 8 (100-249); New Mexico, 1 (1-19); Arizona, 3 (20-99); Utah, 3 (20-99); Nevada, 1 (1-19); Pacific—Washington, 11 (100-249); Oregon, 9 (20-99).

S.I.C. 2887, Fatty Acids: Middle Atlantic—New Jersey, 2 (100-249); Pennsylvania, 2 (100-249); East North Central—Ohio, 2 (250-499); Indiana, 1 (100-249); Illinois, 4 (500-999); South and West—Tennessee, 2 (20-99); Texas, 1 (1-19); Pacific—California, 1 (20-99).

S.I.C. 2889, Animal Oils N.E.C.: New England—Maine, 5 (20-99); New Hampshire, 1 (1-19); Massachusetts, 4 (20-99); Middle Atlantic—New York, 3 (20-99); Pennsylvania, 2 (20-99); All Other Divisions—Indiana, 1 (1-19); Michigan, 1 (100-249); Delaware, 2 (250-499); Maryland, 1 (1-19); South Carolina, 1 (1-19); Florida, 2 (20-99); Mississippi, 2 (20-99); Texas, 1 (100-249); Utah, 1 (1-19); Washington, 5 (20-99); Oregon, 2 (20-99).



## VEGETABLE AND ANIMAL OILS

28G-9

Table 3.—DETAILED STATISTICS FOR THE UNITED STATES: 1954

(For explanation of line captions see Introduction)

Item	Cottonseed oil mills all estab- lishments (S.I.C. 2881)	Linseed oil mills all estab- lishments (S.I.C. 2882)	Soybean oil mills (S.I.C. 2883)		Vegetable oil mills, n.e.c. (S.I.C. 2884)	
			All estab- lishments	Establishments with 90% or more primary product specialization	All estab- lishments	Establishments with 90% or more primary product specialization
Primary product specialization ratio <sup>1</sup> .....	96	94	88	xxx	58	xxx
Coverage ratio <sup>2</sup> .....	93	90	96	xxx	80	xxx
Number of establishments, total.....	286	12	88	66	51	36
With 1-19 employees.....	48	1	19	16	26	23
With 20-99 employees.....	219	6	50	40	19	12
With 100 employees and over.....	19	5	19	10	6	1
All employees:						
Number (average for year).....	13,665	1,263	6,922	4,528	2,460	670
Payroll.....\$1,000.....	43,103	5,625	29,453	18,418	9,198	2,333
Production workers:						
Number (average for year).....	11,082	1,026	5,447	3,630	1,893	544
Man-hours.....1,000.....	27,080	2,479	11,624	7,536	4,041	1,151
Wages.....\$1,000.....	29,831	4,860	20,679	12,964	6,337	1,738
Value added by manufacture.....	101,164	16,679	106,938	58,239	21,240	5,185
Cost of materials, etc.....	445,265	122,940	719,422	510,917	144,740	41,859
Value of shipments.....	546,430	139,619	826,362	569,158	165,982	47,044
Value added by resales.....	3,407	17	2,754	1,308	708	26
Cost of products bought and resold.....	42,461	2,819	48,291	28,428	28,955	397
Sales of products bought and resold.....	45,868	2,836	51,046	29,737	29,663	423
Total inventories, beginning of year.....	135,071	28,096	166,480	110,931	19,251	7,400
Total inventories, end of year.....	141,887	26,324	120,075	86,964	18,357	5,576
Capital expenditures, new.....	11,680	1,311	8,479	4,919	2,470	1,034
Total employment, by month:						
January.....	15,089	1,271	7,002	(NA)	2,686	(NA)
February.....	14,579	1,247	7,003		2,550	
March.....	14,594	1,168	6,845		2,646	
April.....	12,662	1,209	6,578		2,609	
May.....	11,628	1,251	6,587		2,466	
June.....	10,044	1,227	6,720		2,393	
July.....	10,135	1,294	6,688		2,207	
August.....	11,758	1,332	6,776		2,346	
September.....	15,048	1,309	6,687		2,348	
October.....	16,668	1,288	7,492		2,372	
November.....	16,679	1,300	7,479		2,383	
December.....	15,096	1,260	7,207		2,514	
Cost of materials, fuel, electricity and contract work, total.....\$1,000.....	445,265	122,940	719,422	510,917	144,740	41,859
Materials, parts, containers, and supplies consumed.....	435,602	121,620	709,503	503,279	142,675	41,373
Fuels consumed, total.....	2,161	395	4,421	3,166	1,056	160
Bituminous coal and anthracite:						
Quantity.....1,000 short tons.....	37	21	351	(NA)	77	(NA)
Value.....\$1,000.....	327	181	2,397		672	
Coke:						
Quantity.....1,000 short tons.....	( <sup>3</sup> )	( <sup>3</sup> )	...		...	
Value.....\$1,000.....	7	2	...		...	
Fuel oil:						
Quantity.....1,000 barrels.....	66	8	375		64	
Value.....\$1,000.....	261	31	1,079		257	
Gas:						
Quantity.....Million cubic feet.....	7,027	502	2,769		510	
Value.....\$1,000.....	1,492	181	781		126	
Other fuels:						
Value.....do.....	74	...	164		1	
Electric energy:						
Purchased:						
Quantity.....Million kwh.....	677	79	351	267	71	25
Cost.....\$1,000.....	6,826	915	5,492	4,466	857	324
Generated.....Million kwh.....	6	...	40	8	9	5
Sold:						
Quantity.....Million kwh.....	...	...	...	...	1	1
Value.....\$1,000.....	...	...	...	...	11	11
Cost of contract work.....	676	10	6	6	152	2
Manufacturers' inventories:						
Beginning of year, total.....do.....	135,071	28,096	166,480	110,931	19,251	7,400
Finished products.....do.....	27,813	11,291	18,534	12,483	6,914	1,202
Work-in-process.....do.....	19,954	...	923	571	4,160	237
Materials, supplies, fuel, etc.....do.....	87,304	16,805	147,023	97,877	8,177	5,961
End of year, total.....do.....	141,887	26,324	120,075	86,964	18,357	5,576
Finished products.....do.....	34,056	9,383	16,115	12,039	6,599	949
Work-in-process.....do.....	20,874	...	868	648	4,393	222
Materials, supplies, fuel, etc.....do.....	86,957	16,941	103,092	74,277	7,365	4,405
Expenditures for plant and equipment, total.....	12,123	1,322	8,744	5,184	2,526	1,075
Capital expenditures, new.....do.....	11,680	1,311	8,479	4,919	2,470	1,034
New structures and additions to plant.....do.....	3,954	355	3,685	2,050	439	301
New machinery and equipment.....do.....	7,726	956	4,794	2,869	2,031	733
Expenditures for used plant and equipment.....do.....	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )	( <sup>4</sup> )
Horsepower rating of power equipment at end of 1954:						
Horsepower of prime movers and electric						
motors driven by purchased energy, total.....1,000 hp.....	441	24	136	95	52	28
Engines, etc., driving electric generators.....do.....	14	...	11	2	5	2
Engines, etc., not driving electric generators.....do.....	27	...	2	1	3	1
Electric motors driven by purchased energy.....do.....	400	24	123	92	44	25
Electric motors driven by energy generated at						
the establishment.....do.....	5	...	14	1	18	16

See footnotes at end of table.

## MANUFACTURES--INDUSTRY STATISTICS

Table 3.—DETAILED STATISTICS FOR THE UNITED STATES: 1954—Continued

Item	Grease and tallow (S.I.C. 2886)		Fatty acids (S.I.C. 2887)		Animal oils, n.e.c. (S.I.C. 2889)	
	All estab- lishments	Establishments with 90% or more primary product specialization	All estab- lishments	Establishments with 90% or more primary product specialization	All estab- lishments	Establishments with 90% or more primary product specialization
Primary product specialization ratio.....	88	xxx	68	xxx	89	xxx
Coverage ratio.....	55	xxx	73	xxx	66	xxx
Number of establishments, total.....	500	288	15	3	61	52
With 1-19 employees.....	356	197	3	...	24	21
With 20-99 employees.....	129	82	5	3	31	26
With 100 employees and over.....	15	9	7	...	6	5
All employees:						
Number (average for year).....	11,466	6,391	1,891	174	2,294	1,943
Payroll.....\$1,000...	46,633	25,945	10,263	823	8,430	6,542
Production workers:						
Number (average for year).....	8,480	4,764	1,185	133	1,889	1,671
Man-hours.....1,000...	19,567	10,871	2,712	299	4,384	3,853
Wages.....\$1,000...	31,291	17,270	6,009	544	6,282	5,268
Value added by manufacture.....do...	95,451	52,730	21,922	1,762	22,079	18,599
Cost of materials, etc.....do...	127,072	71,895	34,069	2,722	43,294	33,759
Value of shipments.....do...	222,516	124,617	55,991	4,485	65,374	52,319
Value added by resales.....do...	121	217	749	(D)	30	(D)
Cost of products bought and resold.....do...	14,154	3,565	4,043	(D)	1,975	(D)
Sales of products bought and resold.....do...	14,276	3,783	4,793	(D)	2,005	(D)
Total inventories, beginning of year.....do...	11,269	5,473	9,503	542	9,772	7,138
Total inventories, end of year.....do...	12,476	6,547	10,520	637	8,777	6,447
Capital expenditures, new.....do...	8,138	5,388	4,819	(D)	4,544	4,214
Total employment, by month:						
January.....	(NA)		1,960		1,426	
February.....	(NA)		1,926		1,508	
March.....	11,250		1,948		1,672	
April.....	(NA)		1,940		2,055	
May.....	11,327		1,903		2,342	
June.....	(NA)		1,821		2,776	
July.....	(NA)	(NA)	1,846	(NA)	2,997	(NA)
August.....	11,482		1,857		2,875	
September.....	(NA)		1,873		2,744	
October.....	(NA)		1,883		2,473	
November.....	11,804		1,856		2,285	
December.....	(NA)		1,879		2,375	
Cost of materials, fuel, electricity and contract work, total..\$1,000...	127,072	71,895	34,069	2,722	43,294	33,759
Materials, parts, containers, and supplies consumed.....do...	119,499	67,863	32,068	2,524	41,053	32,046
Fuels consumed, total.....do...	5,061	2,569	1,389	119	1,587	1,293
Bituminous coal and anthracite:						
Quantity.....1,000 short tons...	253		109		6	
Value.....\$1,000...	2,226		721		74	
Coke:						
Quantity.....1,000 short tons...	17		...		...	
Value.....\$1,000...	34		...		...	
Fuel oil:						
Quantity.....1,000 barrels...	444	(NA)	119	(NA)	414	(NA)
Value.....\$1,000...	1,376		283		1,300	
Gas:						
Quantity.....Million cubic feet...	2,585		1,556		108	
Value.....\$1,000...	767		344		63	
Other fuels:						
Value.....do...	658		41		150	
Electric energy:						
Purchased:						
Quantity.....Million kwh...	105	69	49	5	26	21
Cost.....\$1,000...	1,743	1,071	493	61	505	403
Generated.....Million kwh...	17	...	2	...	2	2
Cost of contract work.....\$1,000...	769	392	119	18	149	17
Manufacturers' inventories:						
Beginning of year, total.....do...	11,269	5,473	9,503	542	9,772	7,138
Finished products.....do...	8,384	4,080	4,107	226	6,321	5,178
Work-in-process.....do...	842	(4)	2,528	(4)	(4)	(4)
Materials, supplies, fuel, etc.....do...	2,043	1,046	2,868	103	3,210	1,760
End of year, total.....do...	12,476	6,547	10,520	637	8,777	6,447
Finished products.....do...	9,426	5,041	5,009	320	5,912	4,815
Work-in-process.....do...	853	(4)	2,922	(4)	(4)	(4)
Materials, supplies, fuel, etc.....do...	2,197	1,151	2,589	115	2,511	1,380
Expenditures for plant and equipment, total.....do...	8,711	5,806	4,829	(D)	4,664	4,293
Capital expenditures, new.....do...	8,138	5,388	4,819	(D)	4,544	4,214
New structures and additions to plant.....do...	1,671	979	1,353	(D)	973	856
New machinery and equipment.....do...	6,467	4,409	3,466	(D)	3,571	3,357
Expenditures for used plant and equipment.....do...	573	(4)	(4)	(D)	(4)	(4)
Horsepower rating of power equipment at end of 1954:						
Horsepower of prime movers and electric motors						
driven by purchased energy, total.....1,000 hp...	102	63	46	1	53	48
Engines, etc., driving electric generators.....do...	5	1	31	...	11	11
Engines, etc., not driving electric generators.....do...	5	4	1	(2)	10	9
Electric motors driven by energy generated at the establishment.....do...	92	58	14	1	32	28
Electric motors driven by energy generated at the establishment.....do...	9	...	1	...	3	3

NOTE: Detailed figures may not add to the totals because of independent rounding. NA Not available. <sup>1</sup>The specialization ratio compares the given industry's shipments of its primary products to its total shipments of all products. (The primary products are listed in Tables 5B and 6A; the first 4-digits of the product code represent the industry code to which the product is primary.) Columns containing totals for establishments with 90 percent or more primary product specialization are shown only for those industries having a primary product specialization ratio of less than 90 percent. <sup>2</sup>The coverage ratio measures the extent to which the total shipments of products primary to the given industry are shipped by establishments classified in that industry. <sup>3</sup>Less than 500 tons. <sup>4</sup>Less than \$500 thousand.

## VEGETABLE AND ANIMAL OILS

28G-11

Table 4.—SELECTED STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR THE UNITED STATES: 1954

(Value figures in thousands of dollars. For explanation of line captions see Introduction. Data which cannot be shown without disclosing information for individual companies have been combined with figures for other size classes. A (D) appears in the column where the figure has been omitted and the combined figure is underlined and shown in the size-class to the left)

Ind. code	Industry and item	Total, all establishments	Establishments with an average of—									
			1-4 employees	5-9 employees	10-19 employees	20-49 employees	50-99 employees	100-249 employees	250-499 employees	500-999 employees	1,000-2,499 employees	2,500 employees and over
2881	Cottonseed oil mills:											
	Number of establishments..	286	7	11	30	136	83	18	1	...	...	...
	Number of employees.....	13,665	23	91	461	4,665	5,675	2,747	(D)	...	...	...
	Value added by manufacture	101,164	435	328	3,712	27,721	38,847	<u>30,118</u>	(D)	...	...	...
2882	Linseed oil mills:											
	Number of establishments..	12	...	1	...	3	3	4	1	...	...	...
	Number of employees.....	1,263	...	99	...	(D)	245	918	(D)	...	...	...
	Value added by manufacture	16,679	...	<u>841</u>	...	(D)	4,972	<u>10,865</u>	(D)	...	...	...
2883	Soybean oil mills:											
	Number of establishments..	88	2	8	9	28	22	12	6	1	...	...
	Number of employees.....	6,922	69	(D)	125	1,024	1,616	1,636	<u>2,450</u>	(D)	...	...
	Value added by manufacture	106,938	<u>707</u>	(D)	689	11,291	36,696	13,188	<u>44,365</u>	(D)	...	...
2884	Vegetable oil mills, nec:											
	Number of establishments..	51	6	8	12	15	4	5	...	1	...	...
	Number of employees.....	2,460	13	55	179	501	300	<u>1,410</u>	...	(D)	...	...
	Value added by manufacture	21,240	99	448	1,487	3,383	2,519	<u>13,303</u>	...	(D)	...	...
2886	Grease and tallow:											
	Number of establishments..	500	99	122	135	99	30	11	3	1	...	...
	Number of employees.....	11,466	281	903	1,914	3,219	1,974	1,607	<u>1,564</u>	(D)	...	...
	Value added by manufacture	95,451	2,174	6,856	15,447	28,098	16,160	12,001	<u>14,712</u>	(D)	...	...
2887	Fatty acids:											
	Number of establishments..	15	...	2	1	1	4	5	2	...	...	...
	Number of employees.....	1,891	...	68	(D)	(D)	304	<u>1,518</u>	(D)	...	...	...
	Value added by manufacture	21,922	...	<u>930</u>	(D)	(D)	2,673	<u>18,317</u>	(D)	...	...	...
2889	Animal oils, nec:											
	Number of establishments..	61	11	7	6	21	10	6	...	...	...	...
	Number of employees.....	2,294	30	56	89	656	648	813	...	...	...	...
	Value added by manufacture	22,079	160	289	668	5,433	7,214	8,312	...	...	...	...

Note: Detailed figures may not add to the totals because of independent rounding.

Table 5A.—INDUSTRY-PRODUCT ANALYSIS—SUMMARY OF INDUSTRY AND PRIMARY PRODUCT SHIPMENTS, SPECIALIZATION RATIOS AND COVERAGE RATIOS FOR THE UNITED STATES: 1954 AND 1947

Industry code	Industry and census year	Value of shipments					Value of primary products shipped			
		Total	Primary products	Secondary products	Miscel- laneous receipts	Primary product speciali- zation ratio <sup>1</sup>  Col. B Col. B+C (Percent)	Total (made in all industries)	Made in this industry	Made in other industries	Coverage ratio <sup>2</sup>  Col. G Col. F (Percent)
(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(E)	(\$1,000)	(\$1,000)	(\$1,000)	(I)		
(A)	(B)	(C)	(D)		(F)	(G)	(H)			
2881	Cottonseed oil mills.....1954..	546,430	520,215	22,319	3,896	96	559,551	520,215	39,336	93
	1947..	518,091	460,546	52,444	5,101	90	513,285	460,546	52,739	90
2882	Linseed oil mills.....1954..	139,619	131,402	8,148	69	94	145,937	131,402	14,535	90
	1947..	192,173	147,605	43,086	1,482	77	169,173	147,605	21,568	87
2883	Soybean oil mills.....1954..	826,362	730,264	95,275	823	88	762,850	730,264	32,586	96
	1947..	585,709	561,271	20,577	3,861	96	700,773	561,271	139,502	80
2884	Vegetable oil mills.....1954..	165,982	90,064	64,220	11,698	58	113,149	90,064	23,085	80
	1947..	334,231	253,591	64,920	15,720	80	284,680	253,591	31,089	89
2886	Grease and tallow.....1954..	222,516	195,473	26,290	753	88	356,184	195,473	160,711	55
	1947..	303,291	270,039	30,916	2,336	90	523,088	270,039	253,049	52
2887	Fatty acids.....1954..	55,991	37,952	18,025	14	68	52,271	37,952	14,319	73
	1947..	68,094	37,779	9,490	825	86	76,329	37,779	18,550	76
2889	Animal oils.....1954..	65,374	57,686	6,811	877	89	87,869	57,686	30,183	66
	1947..	42,940	39,917	2,468	555	94	101,969	39,917	62,052	39

<sup>1</sup>The specialization ratio compares the given industry's shipments of its primary products to its total shipments of all products. (The primary products are listed in Tables 5A and 6A; the first 4-digits of the product code represent the industry code to which the product is primary.)

<sup>2</sup>The coverage ratio measures the extent to which the total shipments of products primary to the given industry are shipped by establishments classified in that industry.

<sup>3</sup>In 1954 data for edible and inedible stearin were reported separately and considered primary, respectively, to Industry 2011, Meat Packing and Industry 2889, Animal Oils, N.E.C. Since such distributions could not be made with the 1947 data, this ratio is not strictly comparable with that for 1954.



## MANUFACTURES--INDUSTRY STATISTICS

Table 5B.--INDUSTRY-PRODUCT ANALYSIS; SHIPMENTS BY PRODUCT CLASS AND INDUSTRY, FOR THE UNITED STATES: 1954

(In thousands of dollars. The first column shows the total value of shipments of the specified industry divided among: (a) products classified in the industry (primary products), (b) products classified in other industries (secondary products), and (c) miscellaneous receipts. The value of shipments of the primary products of the specified industry reported by establishments not classified in that industry is shown under the caption "Other Industries." Industries accounting for significant amounts of the primary products listed are shown in separate columns, provided that the figures for individual companies are not thereby disclosed. The last column shows the total value of shipments of the primary products of the industry by all manufacturing industries)

Prod. class code	Cottonseed oil mills industry	Cottonseed oil mills (S.I.C. 2881)	Shortening and cooking oils (S.I.C. 2092)	Vegetable oil mills, n.e.c. (S.I.C. 2884)	Other industries	All industries
	Total shipments and receipts of the industry.....	546,430	xxx	xxx	xxx	xxx
	Primary products.....	520,215	xxx	xxx	xxx	xxx
28810	Cottonseed oil mill products.....	520,215	21,501	12,451	5,384	559,551
	Secondary products.....	22,319	xxx	xxx	xxx	xxx
20422	Livestock feeds.....	3,569	xxx	xxx	xxx	xxx
28711	Mixed fertilizers, complete and incomplete.....	5,198	xxx	xxx	xxx	xxx
28830	Soybean oil mill products.....	7,977	xxx	xxx	xxx	xxx
	Other secondary products.....	15,575	xxx	xxx	xxx	xxx
	Miscellaneous receipts.....	3,896	xxx	xxx	xxx	xxx
	Contract work.....	3,719	xxx	xxx	xxx	xxx
	Other.....	177	xxx	xxx	xxx	xxx
Prod. class code	Linseed oil mills industry	Linseed oil mills (S.I.C. 2882)	Other industries		All industries	
	Total shipments and receipts of the industry.....	139,619	xxx		xxx	
	Primary products.....	131,402	xxx		xxx	
28820	Linseed oil mill products.....	131,402	214,535		145,937	
	Secondary products.....	38,148	xxx		xxx	
	Miscellaneous receipts.....	69	xxx		xxx	
Prod. class code	Soybean oil mills industry	Soybean oil mills (S.I.C. 2883)	Cottonseed oil mills (S.I.C. 2881)	Other industries	All industries	
	Value of shipments.....	826,362	xxx	xxx	xxx	
	Primary products.....	730,264	xxx	xxx	xxx	
28830	Soybean oil mill products.....	730,264	8,261	24,325	762,850	
	Secondary products.....	95,275	xxx	xxx	xxx	
20421	Poultry feeds.....	23,473	xxx	xxx	xxx	
20422	Live stock feeds.....	23,805	xxx	xxx	xxx	
20920	Shortening and salad oils, except margarine.....	8,419	xxx	xxx	xxx	
	Other secondary products.....	39,578	xxx	xxx	xxx	
	Miscellaneous receipts.....	823	xxx	xxx	xxx	
Prod. class code	Vegetable oil mills, n.e.c., industry	Vegetable oil mills, n.e.c. (S.I.C. 2884)	Shortening and cooking oils (S.I.C. 2092)	Other industries	All industries	
	Total shipments and receipts of the industry.....	165,982	xxx	xxx	xxx	
	Primary products.....	90,064	xxx	xxx	xxx	
28840	Vegetable oil mill products, n.e.c.....	90,064	11,289	11,796	113,149	
	Secondary products.....	64,220	xxx	xxx	xxx	
20920	Shortening and salad oils, except margarine.....	20,944	xxx	xxx	xxx	
28810	Cottonseed oil mill products.....	12,451	xxx	xxx	xxx	
28830	Soybean oil mill products.....	3,725	xxx	xxx	xxx	
28870	Fatty acids.....	4,259	xxx	xxx	xxx	
	Other secondary products.....	22,841	xxx	xxx	xxx	
	Miscellaneous receipts.....	11,698	xxx	xxx	xxx	

See footnotes at end of table.

VEGETABLE AND ANIMAL OILS

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Table 5B.—INDUSTRY-PRODUCT ANALYSIS; SHIPMENTS BY PRODUCT CLASS AND INDUSTRY, FOR THE UNITED STATES: 1954—Continued

Prod. class code	Grease and tallow industry	Grease and tallow (S.I.C. 2886)	Meat packing plants (S.I.C. 2011)	Other industries	All industries
	Total shipments and receipts of the industry.....	222,516	xxx	xxx	xxx
	Primary products.....	195,473	142,144	18,567	356,184
28861	Grease and tallow.....	100,809	70,716	11,045	182,570
28862	Feed and fertilizer byproducts.....	90,752	71,428	7,493	169,673
28860	Grease and tallow, not specified by kind.....	3,912	xxx	29	3,941
	Secondary products.....	26,290	xxx	xxx	xxx
20116	Hides, skins, and pelts.....	14,593	xxx	xxx	xxx
28712	Fertilizer materials of organic origin.....	2,996	xxx	xxx	xxx
	Other secondary products.....	78,701	xxx	xxx	xxx
	Miscellaneous receipts.....	753	xxx	xxx	xxx
	Contract work.....	232	xxx	xxx	xxx
	Repair work.....	369	xxx	xxx	xxx
	Other.....	152	xxx	xxx	xxx
Prod. class code	Fatty acids industry	Fatty acids (S.I.C. 2887)	Other industries	All industries	
	Total shipments and receipts of the industry.....	55,991	xxx	xxx	
	Primary products.....	37,952	xxx	xxx	
28870	Fatty acids.....	37,952	14,319	52,271	
	Secondary products.....	18,025	xxx	xxx	
28414	Glycerin.....	5,222	xxx	xxx	
	Other secondary products.....	812,803	xxx	xxx	
	Miscellaneous receipts.....	14	xxx	xxx	
Prod. class code	Animal oils, n.e.c., industry	Animal oils, n.e.c. (S.I.C. 2889)	Other industries	All industries	
	Total shipments and receipts of the industry.....	65,374	xxx	xxx	
	Primary products.....	57,686	30,183	87,869	
28890	Animal oils, not specified by kind.....	376	48,023	145	
28891	Raw and acidulated soap stocks and foots.....			8,254	
28892	Animal oil mill products, other than fatty acids.....	4,492	915,968	20,460	
28893	Marine animal oil mill products.....	52,818	6,192	59,010	
	Secondary products.....	106,811	xxx	xxx	
28870	Fatty acids.....	3,530	xxx	xxx	
	Other secondary products.....	3,281	xxx	xxx	
	Miscellaneous receipts.....	877	xxx	xxx	
	Contract work.....	516	xxx	xxx	
	Other.....	361	xxx	xxx	

<sup>1</sup> Principally shortening and salad oils (code 28920), poultry feeds (code 20421) and other vegetable oil mill products (code 28840).

<sup>2</sup> Shipped principally by establishments classified in Industry 2883, Soybean Oil Mills.

<sup>3</sup> Principally formulated paint vehicles (code 28512), cottonseed oil mill products (code 28810) and other vegetable oil mill products (code 28840).

<sup>4</sup> Shipped principally by establishments classified in Industry 2092, Shortening and Cooking Oils.

<sup>5</sup> Principally grain mill products (20414), dog and cat food (code 20423), linseed oil mill products (code 28820) and other vegetable oil mill products (code 28840).

<sup>6</sup> Principally, margarine (code 20930), miscellaneous acyclic chemicals (code 28293), chemical specialties (code 28993), inorganic and organic medicinals uncompounded (code 28332) and sulfonated oils and fats (code 28430).

<sup>7</sup> Principally glues and adhesives (code 28941), other meat packing products (code 20117), mixed fertilizers (code 28711) and other vegetable oil mill products (code 28840).

<sup>8</sup> Principally miscellaneous acyclic chemicals (code 28293), other synthetic organic chemicals (code 28294), and sulfonated oils and fats (code 28430).

<sup>9</sup> Principally shipped by establishments classified in Industry 2011, Meat Packing Wholesale.

<sup>10</sup> Principally fatty acids (code 28870) and inedible grease and tallow (code 28861).

## MANUFACTURES--INDUSTRY STATISTICS

Table 6A.—QUANTITY AND VALUE OF PRODUCTS SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, FOR THE UNITED STATES: 1954 AND 1947

Product code	Product	Unit of quantity	1954						1947		
			Production (quantity)		Total shipments including interplant transfers		Commercial shipments		Production for all purposes (quantity)	Total shipments including interplant transfers	
			Total for all purposes	Consumed in producing plant	Quantity	Value (\$1,000)	Quantity	Value (\$1,000)		Quantity	Value (\$1,000)
2881---	Cottonseed oil mills, total.....		xxx	xxx	xxx	559,551	xxx	515,249	xxx	xxx	513,285
2881011	Cottonseed oil, crude.....	1,000 lb.	1,945,921	144,996	1,814,189	240,593	1,548,381	206,131	1,080,084	1,024,411	240,479
2881021	Cottonseed oil, refined <sup>1</sup> .....	...do...	1,686,968	1,341,819	468,442	70,996	435,647	65,931	1,059,403	269,598	72,484
2881031	Cake and meal.....	Short ton	2,770,295	18,126	2,676,879	171,674	2,646,089	169,628	1,592,350	1,636,856	128,327
2881041	Linters.....	1,000 lb.	1,123,218	(D)	1,067,350	48,939	1,026,123	47,523	680,078	643,748	55,846
2881051	Hulls.....	Short ton	1,293,830	66,107	1,265,347	18,247	1,245,739	17,982	827,677	800,863	13,629
2881098	Other cottonseed oil mill products.....		xxx	xxx	xxx	7,278	xxx	6,230	...	...	2,520
2881000	Cottonseed oil mill products, not specified by kind.....		xxx	xxx	xxx	1,824	xxx	1,824	xxx	xxx	...
2882---	Linseed oil mills, total.....		xxx	xxx	xxx	145,937	xxx	134,768	xxx	xxx	169,173
2882011	Linseed oil, crude.....	1,000 lb.	652,668	189,639	451,414	71,137	627,299	95,619	412,435	426,234	137,900
2882031	Linseed oil, processed <sup>2</sup> .....	...do...	247,247	30,510	211,695	35,651			(NA)	(NA)	(NA)
2882051	Cake and meal.....	Short ton	567,897	...	545,793	39,149	545,793	39,149	392,087	403,231	31,273
2883---	Soybean oil mills, total.....		xxx	xxx	xxx	762,850	xxx	(D)	xxx	xxx	700,773
2883011	Soybean oil, crude.....	1,000 lb.	2,402,615	144,890	2,279,958	305,829	2,069,317	278,365	1,523,457	1,454,683	316,299
2883021	Soybean oil, refined <sup>1</sup> .....	...do...	2,090,451	1,903,328	226,433	31,998	222,021	31,647	1,335,234	231,073	57,667
2883031	Soybean oil processed <sup>2</sup> .....	...do...	89,975	(D)	84,368	11,718	84,368	11,718	(NA)	(NA)	(NA)
2883041	Cake and meal.....	Short ton	5,315,589	266,058	5,051,526	390,409	4,616,259	354,240	4,178,264	3,963,694	305,496
2883051	Soy flour and grits.....	1,000 lb.	235,744	(D)	200,200	18,399	200,200	18,399	xxx	xxx	21,311
2883071	Leicithin.....	...do...	31,066	(D)	36,992	4,497	(D)	(D)			
2883098	Other soybean oil mill products	...do...	xxx	xxx	xxx	...	xxx	...	xxx	xxx	...
2884---	Vegetable oil mills, n.e.c., total		xxx	xxx	xxx	113,149	xxx	93,879	xxx	xxx	284,680
	Vegetable oils, except medicinal grades:										
	Castor bean oil:										
2884011	Castor oil No. 1, crude..	1,000 lb.	47,379	(D)	40,912	7,870	(D)	(D)	89,688	60,453	17,782
2884013	Castor oil No. 3, crude..	...do...	18,430	(D)	17,596	3,727	(D)	(D)	26,056	20,015	5,676
2884015	Dehydrated castor oil...	...do...	17,941	(D)	15,906	3,214	(D)	(D)	30,408	29,835	10,316
	Coconut products:										
2884021	Coconut oil, crude.....	...do...	421,768	(NA)	367,657	47,989	(D)	(D)	774,983	776,861	124,870
2884023	Coconut oil, refined <sup>1</sup> ....	...do...	360,184	302,119	58,980	11,161	(D)	(D)	359,861	72,429	18,348
2884025	Cake and meal.....	Short ton	113,590	...	115,856	7,341	115,856	7,341	213,720	211,691	12,960
2884031	Hydrogenated vegetable oils, inedible.....	1,000 lb.	11,369	(D)	11,360	1,232	(D)	(D)	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
	Peanut products:										
2884041	Peanut oil, crude.....	...do...	468,986	(NA)	45,920	8,420	(D)	(D)	136,220	118,187	33,407
2884043	Peanut oil, refined <sup>1</sup> .....	...do...	59,258	47,592	13,279	2,844	(D)	(D)	136,070	51,574	16,914
2884045	Cake and meal.....	Short ton	454,302	(D)	55,016	3,355	(D)	(D)	116,081	112,413	8,043
2884051	Tung oil (china-wood oil)...	1,000 lb.	40,524	xxx	34,745	5,907	xxx	(D)	13,732	12,880	3,922
	Other vegetable oils:										
2884061	Crude.....	...do...	97,180	2,813	20,605	4,678	(D)	(D)	44,285	39,825	9,146
2884065	Refined <sup>2</sup> .....	...do...									
2884071	Cake and meal.....	Short ton	73,396	(D)	64,555	2,077	64,555	2,077	92,820	62,343	14,736
2884098	Other vegetable oil mill products.....		xxx	xxx	xxx	764	xxx	764	xxx	xxx	2,727
2884000	Vegetable oil mill products, not specified by kind.....		xxx	xxx	xxx	2,570	xxx	2,570	xxx	xxx	...
			1954						1947		
			Production for all purposes (quantity)	Total shipments including interplant transfers		Production for all purposes (quantity)	Total shipments including interplant transfers				
				Quantity	Value (\$1,000)		Quantity	Value (\$1,000)			
2886---	Grease and tallow, total.....		xxx	xxx	xxx	356,184	...	...	...	...	523,088
28861	Grease and tallow <sup>6</sup> .....		xxx	xxx	xxx	182,570	...	...	...	...	354,176
2886111	Grease.....	Short ton	1,436,551	1,431,221	182,570	...	310,647	318,021	318,021	118,239	118,239
2886131	Tallow, inedible.....	...do...					605,793	632,774	632,774	234,867	234,867
2886100	Grease and tallow, not specified by kind.....	...do...					xxx	xxx	xxx	1,070	1,070

See footnotes at end of table.



## VEGETABLE AND ANIMAL OILS

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Table 6A.—QUANTITY AND VALUE OF PRODUCTS SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, FOR THE UNITED STATES: 1954 AND 1947—Continued

Product code	Product	Unit of quantity	1954				1947					
			Production for all purposes (quantity)	Total shipments including interplant transfers		Production for all purposes (quantity)	Total shipments including interplant transfers					
				Quantity	Value (\$1,000)		Quantity	Value (\$1,000)				
2886--- 28862	Grease and tallow—Continued Feed and fertilizer byproducts.	.....	xxx	xxx	169,673	xxx	xxx	166,213				
2886211	Tankage, animal refuse and garbage: Wet.....	Short ton	396,896	419,974	18,680	(NA)	(NA)	(7)				
2886213 2886215	Dry: For fertilizer..... For feed.....	....do... ....do...	46,332 268,134	46,357 269,562	3,709 24,568	}	(NA)	(NA)	(7)			
2886221 2886225	Meat scraps: For fertilizer..... For feed.....	....do... ....do...	69,219 937,718	68,365 941,980	5,735 86,957		(NA) (NA)	(NA) 640,848	(7) 63,111			
2886231 2886235	Bone meal: For fertilizer..... For feed.....	....do... ....do...	33,918 75,667	34,458 81,578	2,097 5,941	(NA) (NA)	27,198 97,033	1,578 6,676				
2886241 2886245	Other (dried blood, etc.): For fertilizer..... For feed.....	....do... ....do...	29,479 96,363	28,683 96,631	1,832 9,951	}	(NA)	(NA)	(7)			
2886298 2886200	All other byproducts..... Feed and fertilizer byproducts, not specified by kind.....	..... .....	... xxx	... xxx	4,160 6,043		(NA) xxx	(NA) xxx	787,173 7,675			
2886000	Grease, tallow and feed and fertilizer byproducts, not specified by kind.....	.....	xxx	xxx	3,941	xxx	xxx	2,699				
			1954				1947					
			Production (quantity)		Total shipments including interplant transfers		Commercial shipments		Production for all purposes (quantity)	Total shipments including interplant transfers		
			Total for all purposes	Consumed in producing plant	Quantity	Value (\$1,000)	Quantity	Value (\$1,000)		Quantity	Value (\$1,000)	
2887---A 2887011	Fatty acids, total..... Stearic acid (40-50% stearic content) types commercially designated as single, double, or triple pressed.....	..... 1,000 lb.	xxx 58,670	xxx (D)	xxx 56,726	52,271 6,918	xxx (D)	49,120 (D)	}	xxx 60,227	xxx 58,424	76,329 18,013
2887021	Other stearic acids (over 50% stearic content), high palmitic (over 60% palmitic), hydrogenated animal and vegetable fatty acids.....	....do...	70,450	3,867	73,134	8,316	(D)	(D)				
2887061	Oleic acid, including white oleic and red oil.....	....do...	84,860	2,420	85,292	11,986	76,620	11,179	70,405	58,901	14,130	
2887031	Hydrogenated fish and marine mammal fatty acids.....	....do...	}	14,824	xxx	14,832	2,618	14,832	2,618	}		
2887041	Unhydrogenated fish and marine mammal fatty acids.....	....do...										
2887051	Coconut-type fatty acids including coconut, babassu and palm kernel and such fractionated fatty acids as lauric, caprylic, capric, and myristic	....do...	50,402	14,365	32,653	8,395	31,715	8,365	}	272,893	168,983	844,057
2887071	Unsaturated animal fatty acids (unhydrogenated), other than oleic.....	....do...	130,964	98,597	31,621	2,646	26,818	2,317				
2887081	Unsaturated vegetable fatty acids (unhydrogenated).....	....do...	116,633	26,306	89,623	10,554	(D)	(D)	}			
2887098 2887000	Other fatty acids..... Fatty acids, not specified by kind.....	..... .....	xxx xxx	xxx xxx	xxx xxx	443 395	xxx xxx	443 395		1,253	804	129
2889--- 2889111	Animal oils, n.e.c., total..... Foots, animal, vegetable, and fish, and acidulated soap stock.....	..... 1,000 lb.	xxx xxx	xxx xxx	xxx xxx	87,869 8,254	xxx xxx	27,271 6,666	xxx xxx	xxx xxx	101,969 21,201	
28892 2889211 2889298	Animal oil mill products other than fatty acids..... Animal stearin, inedible.... All other animal oils.....	..... 1,000 lb. ....do...	xxx 24,358 127,203	xxx (D) (D)	xxx 24,164 119,071	20,460 2,766 17,694	xxx 24,164 119,071	20,460 2,766 17,694	}	(NA)	(NA)	39,096

See footnotes at end of table.

## MANUFACTURES--INDUSTRY STATISTICS

Table 6A.—QUANTITY AND VALUE OF PRODUCTS SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, FOR THE UNITED STATES: 1954 AND 1947—Continued

Product code	Product		1954						1947		
			Production (quantity)		Total shipments including interplant transfers		Commercial shipments		Production for all purposes (quantity)	Total shipments including interplant transfers	
			Total for all purposes	Consumed in producing plant	Quantity	Value (\$1,000)	Quantity	Value (\$1,000)		Quantity	Value (\$1,000)
2889---	Animal oils, n.e.c.—Continued										
28893	Marine animal oil mill products	.....	xxx	xxx	xxx	59,010	xxx	xxx	xxx	xxx	41,672
2889311	Fish and marine oil.....	.....	xxx	xxx	xxx	23,563	xxx	xxx	xxx	xxx	25,732
2889331	Fish cake and meal.....	.....	xxx	xxx	xxx	28,023	xxx	xxx	xxx	xxx	15,805
2889351	Hydrogenated oils, inedible.	.....	xxx	xxx	xxx	6,473	xxx	xxx	xxx	xxx	135
2889398	Other marine animal oil mill products.....	.....									
2889300	Marine animal oil mill products, not specified by kind.....	.....	xxx	xxx	xxx	951	xxx	xxx	xxx	xxx	...
2889000	Animal oils, not specified by kind.....	.....	xxx	xxx	xxx	145	xxx	145	xxx	xxx	...

xxx Not applicable.

NA Not available.

D Not shown to avoid disclosing figures for individual companies.

<sup>1</sup>Oil treated by alkali or caustic wash. Shipment data exclude amounts of these refined oils which have been further processed by bleaching, deodorizing, and/or winterizing, and by hydrogenation. (See Industry 2092, Shortening and Cooking Oils.)<sup>2</sup>Includes data for refined, boiled, blown, heat treated, or chemically modified oil.<sup>3</sup>The 1947 figures showing production of 1,382,205,000 pounds and shipments of 413,401,000 pounds, valued at \$115,276,000 represent principally data for edible oils, which are now classified as primary to Industry 2092. (See product code 2092041.)<sup>4</sup>Based on data collected by the Agricultural Marketing Service, U. S. Department of Agriculture.<sup>5</sup>1954 statistics do not include tung oil produced for growers on a contract basis (total quantity produced as reported on Census Bureau Monthly Survey M17A was 32,647 thousand pounds).<sup>6</sup>See Industry 2011, Meat Packing, for information on edible tallow.<sup>7</sup>Codes 2886211, 2886213, 2886215, 2886221, 2886241, and 2886245 combined with code 2886298.<sup>8</sup>Includes \$2,525,000 reported as "Other products."

## VEGETABLE AND ANIMAL OILS

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Table 6B.--VALUE OF PRODUCT CLASSES SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, BY DIVISIONS AND STATES FOR 1954, AND UNITED STATES TOTALS FOR EARLIER YEARS

(In thousands of dollars. Statistics are shown for selected product classes which are economically significant and production of which is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (Table 2) and they are not miscellaneous or "not specified by type" classes. For each product class, States are listed only if the value of shipments is more than \$1 million and the figure does not disclose individual company information. Additional States which had shipments of more than \$1 million of the individual product classes are listed in footnote 1)

Product class, region, and State <sup>1</sup>	Value of shipments	Product class, region, and State <sup>1</sup>	Value of shipments	Product class, region, and State <sup>1</sup>	Value of shipments
<b>Soybean oil mill products (28830)</b>		<b>Grease and tallow (28861)—Continued</b>		<b>Feed and fertilizer byproducts (28862)—Continued</b>	
1954 United States, total.....	762,850	Middle Atlantic.....	37,078	West North Central.....	38,901
1953 United States, total.....	804,533	New York.....	18,343	Minnesota.....	8,837
1952 United States, total.....	810,205	New Jersey.....	7,961	Iowa.....	13,525
1951 United States, total.....	828,200	Pennsylvania.....	10,773	Missouri.....	3,493
1950 United States, total.....	621,183	East North Central.....	49,596	Nebraska.....	5,974
1947 United States, total.....	700,773	Ohio.....	13,025	Kansas.....	4,653
1954		Indiana.....	4,587	South Atlantic.....	13,043
North.....	710,542	Illinois.....	18,208	Maryland.....	2,912
East North Central.....	476,782	Michigan.....	8,844	Virginia.....	2,108
Ohio.....	80,767	Wisconsin.....	4,961	North Carolina.....	1,897
Illinois.....	317,985	West North Central.....	35,870	Georgia.....	4,509
West North Central.....	224,837	Minnesota.....	7,251	Florida.....	1,099
Minnesota.....	48,458	Iowa.....	11,622	East South Central.....	5,061
Iowa.....	128,781	Missouri.....	4,167	Kentucky.....	1,386
Missouri.....	34,144	Nebraska.....	5,771	Tennessee.....	2,138
South Atlantic.....	5,142	Kansas.....	4,651	Alabama.....	1,081
East South Central.....	36,182	South Atlantic.....	10,335	West South Central.....	12,055
Kentucky.....	18,538	Maryland.....	2,100	Oklahoma.....	1,855
West South Central.....	3,562	Virginia.....	2,128	Texas.....	8,929
Arkansas.....	2,997	North Carolina.....	1,526	Mountain.....	4,598
West.....	7,422	Georgia.....	1,856	Colorado.....	2,800
		Florida.....	1,676	Pacific.....	17,493
<b>Other vegetable oil mill products (28840)</b>		East South Central.....	3,290	Washington.....	1,795
1954 United States, total.....	113,149	Tennessee.....	1,612	Oregon.....	1,957
1953 United States, total.....	213,890	West South Central.....	7,452	California.....	13,741
1952 United States, total.....	220,052	Arkansas.....	290		
1951 United States, total.....	300,812	Louisiana.....	1,678	1954 United States, total.....	52,771
1950 United States, total.....	253,128	Oklahoma.....	1,124	1947 United States, total.....	76,329
1947 United States, total.....	284,680	Texas.....	4,360		
1954		Mountain.....	5,004	1954	
Middle Atlantic.....	24,100	Colorado.....	3,108	Northeast.....	13,503
New Jersey.....	23,056	Pacific.....	23,109	New Jersey.....	9,827
North Central.....	13,389	Washington.....	2,204	North Central.....	34,392
South Atlantic.....	19,595	Oregon.....	1,568		
Virginia.....	3,094	California.....	19,337	Marine animal oil mill products (28893)	
Georgia.....	7,226			1954 United States, total.....	59,010
East South Central.....	2,606	<b>Feed and fertilizer byproducts (28862)</b>		1947 United States, total.....	41,672
Alabama.....	2,215	1954 United States, total.....	169,673		
West South Central.....	7,428	1953 United States, total.....	169,490	1954	
Louisiana.....	1,700	1952 United States, total.....	205,194	Northeast.....	23,903
West.....	46,030	1951 United States, total.....	203,966	Maine.....	1,193
California.....	45,706	1950 United States, total.....	185,421	New Jersey.....	16,548
		1947 United States, total.....	166,213	South Atlantic.....	17,444
<b>Grease and tallow (28861)</b>		1954		Virginia.....	4,457
1954 United States, total.....	182,570	New England.....	5,957	West South Central.....	7,522
1953 United States, total.....	138,274	Massachusetts.....	4,188	West.....	6,243
1952 United States, total.....	142,111	Middle Atlantic.....	22,173	California.....	5,211
1951 United States, total.....	281,687	New York.....	9,245		
1950 United States, total.....	180,523	New Jersey.....	3,766		
1947 United States, total.....	354,176	Pennsylvania.....	9,161		
1954		East North Central.....	50,391		
New England.....	10,835	Ohio.....	12,592		
Massachusetts.....	5,870	Indiana.....	4,271		
Rhode Island.....	1,553	Illinois.....	20,601		
		Michigan.....	4,730		
		Wisconsin.....	8,196		

Note: The figures shown for 1950 to 1953 are sample estimates obtained from the Annual Survey of Manufactures for those years. Since the estimates are based on a sample they are subject to sampling variability, that is, they are not the same as figures which would have been obtained if complete censuses had been taken for those years. Measures of the sampling variability (standard errors) of the estimated total value of shipments of each product class are shown in the Annual Survey of Manufactures publications. Also shown are the standard errors of the relative change in shipments between some consecutive Annual Survey years which are the more significant measures when the series is studied for trend.

<sup>1</sup>For the specified product classes, shipments of over \$1 million were reported for the States listed but the exact figures are withheld to avoid disclosure of individual company figures: 28830, New Jersey, Indiana, Nebraska, Kansas, North Carolina, Georgia, Florida, Tennessee, Mississippi, and California; 28840, Ohio, Illinois, Minnesota, Missouri, Maryland, Florida, Oklahoma, and Texas; 28861, Connecticut and South Dakota; 28862, South Dakota; 28870, Pennsylvania, Ohio, Indiana, Illinois, Michigan, Tennessee, and California; 28893, New York, Michigan, Delaware, Maryland, North Carolina, Florida, and Louisiana.



Table 8.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY INDUSTRY SPECIALIZATION AND PRIMARY PRODUCT CLASS SPECIALIZATION, FOR THE UNITED STATES: 1954

(This table presents selected statistics for establishments classified according to their degree of specialization in products primary to the industry. The establishments are classified in two ways: (1) by industry specialization—the degree of specialization in all primary products of the industry; and (2) by product-class specialization—the degree of specialization in the largest product class of the establishment. The degree of "industry specialization" for an establishment represents the ratio of its primary product shipments to its total product shipments, primary and secondary. The degree of "product-class specialization" for an establishment represents the ratio of its largest product class shipments to its total product shipments, primary and secondary. Data are not shown for some industries, product classes, and specialization ranges for a variety of reasons, consequently, detailed figures frequently do not add to the totals. See Introduction for detailed explanation)

Ind. or product class No.	Industry or product class by percent of specialization	Establishments, number	All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
2883	SOYBEAN OIL MILLS (entire industry).....	88	6,922	29,453	5,447	11,624	20,679	106,938	719,422	826,362
	Establishments with:									
	90% or more specialization.....	66	4,528	18,418	3,630	7,536	12,964	58,239	510,917	569,158
2884	VEGETABLE OIL MILLS, N.E.C. (entire industry).....	51	2,460	9,198	1,893	4,041	6,337	21,240	144,740	165,982
	Establishments with:									
	90% or more specialization.....	36	670	2,333	544	1,151	1,738	5,185	41,859	47,044
	75-89% specialization.....	6	281	898	250	555	769	2,009	11,320	13,329
	50-74% specialization.....	5	481	2,318	333	762	1,480	4,592	38,591	43,183
	All other <sup>1</sup> .....	4	1,028	3,649	764	1,573	2,350	9,454	52,970	62,424
2886	GREASE AND TALLOW (entire industry).....	500	11,466	46,633	8,480	19,567	31,291	95,451	127,072	222,516
	Establishments with:									
	90% or more specialization.....	288	6,391	25,945	4,764	10,871	17,270	52,730	71,895	124,617
	75-89% specialization.....	132	2,863	11,921	2,108	4,913	7,982	23,064	27,780	50,845
	50-74% specialization.....	69	2,062	8,137	1,480	3,477	5,503	18,372	24,680	43,053
	All other <sup>1</sup> .....	11	149	629	126	305	533	1,284	2,715	4,000
28861	Grease and tallow:									
	All establishments specializing in product class.	206	6,383	27,743	4,705	10,523	18,497	57,262	70,657	127,920
	Establishments with:									
	90% or more specialization.....	25	224	795	176	375	548	1,229	3,325	4,554
	75-89% specialization.....	24	599	2,869	471	1,046	1,949	5,276	7,806	13,082
	50-74% specialization.....	120	4,396	19,139	3,276	7,236	12,891	38,404	47,745	86,150
	Less than 50% specialization.....	37	1,163	4,939	781	1,864	3,108	12,352	11,780	24,133
28862	Feed and fertilizer byproducts:									
	All establishments specializing in product class.	241	4,452	16,579	3,253	7,819	10,975	32,842	49,461	82,297
	Establishments with:									
	90% or more specialization.....	32	596	2,193	468	1,068	1,541	4,417	11,444	15,862
	75-89% specialization.....	15	257	1,035	203	546	603	2,056	3,043	5,100
	50-74% specialization.....	116	2,328	8,493	1,674	4,040	5,699	17,337	24,950	42,281
	Less than 50% specialization.....	78	1,270	4,857	907	2,163	3,131	9,030	10,024	19,054
2887	FATTY ACIDS (entire industry).....	15	1,891	10,263	1,185	2,712	6,009	21,922	34,069	55,991
	Establishments with:									
	90% or more specialization.....	3	174	823	133	299	544	1,762	2,722	4,485
	75-89% specialization.....	6	718	3,798	425	1,030	2,127	4,877	10,071	14,948
2889	ANIMAL OILS, N.E.C. (entire industry).....	61	2,294	8,430	1,889	4,384	6,282	22,079	43,294	65,374
	Establishments with:									
	90% or more specialization.....	52	1,943	6,542	1,671	3,853	5,268	18,559	33,759	52,319
28892	Animal oil mill products other than fatty acids:									
	All establishments specializing in product class.	9	222	1,246	110	274	479	1,690	4,277	5,968
	Establishments with:									
	90% or more specialization.....	5	81	372	64	153	254	702	2,241	2,944
	75-89% specialization.....	...	...	...	...	...	...	...	...	...
28893	Marine animal oil mill products:									
	All establishments specializing in product class.	48	2,041	7,097	1,753	4,061	5,736	20,278	38,404	58,683
	Establishments with:									
	90% or more specialization.....	44	1,855	6,160	1,601	3,690	5,006	17,803	31,405	49,209

<sup>1</sup>This class includes data for establishments with less than 50 percent specialization in the primary products for the industry and establishments engaged exclusively in contract work defined in the industry. Miscellaneous small statistical adjustments are also included.

## VEGETABLE AND ANIMAL OILS

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Table 9A.—CRUSHING EQUIPMENT AND 24 HOUR RATED CAPACITY AS OF DECEMBER 31, 1954, BY TYPE OF EQUIPMENT, FOR REGIONS AND STATES

Statistics are based on reports by establishments which crushed seeds and/or beans during 1954. These figures contain some duplications, the amount depending on the extent to which soybeans and cottonseed are crushed in the same establishments. (see text)

Region and State	Hydraulic press <sup>1</sup>		Continuous screw press <sup>1</sup>		Solvent extraction		Prepress solvent extraction	
	Number	Capacity (Short tons)	Number	Capacity (Short tons)	Number	Capacity (Short tons)	Number	Capacity (Short tons)
COTTONSEED								
United States, total.....	1,328	13,478	443	12,175	16	3,021	18	4,093
Southeast, total.....	544	5,825	70	2,100	(D)	(D)	...	...
Alabama-Georgia.....	321	3,367	29	1,095	(D)	(D)	...	...
North Carolina.....	116	1,209	13	280	...	...	...	...
South Carolina.....	107	1,249	28	725	...	...	...	...
Valley, total.....	525	4,442	96	2,732	(D)	(D)	(D)	(D)
Arkansas-Tennessee.....	171	1,498	57	1,693	3	829	(D)	(D)
Louisiana-Mississippi.....	354	2,944	39	1,039	(D)	(D)	(D)	(D)
Southwest, total.....	259	3,211	250	6,817	4	1,150	12	3,143
Arizona-California.....	(D)	(D)	93	2,118	...	...	(D)	(D)
Oklahoma-Texas.....	(D)	(D)	157	4,699	4	1,150	(D)	(D)
All other:								
Florida, Illinois, Missouri, and New Mexico.....	7	...	27	526	...	...	(D)	(D)
SOYBEANS								
United States, total.....	18	515	158	3,677	85	21,069	(D)	(D)
Central soybean producing States, total.....	(D)	(D)	95	1,599	67	18,637	(D)	(D)
Illinois.....	...	...	42	557	24	7,995	(D)	(D)
Iowa.....	...	...	29	617	14	3,563	...	...
Ohio.....	(D)	(D)	(D)	(D)	13	2,294	...	...
Indiana.....	...	...	...	...	6	2,420	...	...
Minnesota.....	(D)	...	14	240	4	1,205	...	...
Missouri.....	(D)	(D)	...	...	(D)	(D)	...	...
Kansas.....	...	...	(D)	(D)	(D)	(D)	...	...
Nebraska.....	(D)	60	(D)	(D)	...	...	...	...
Other soybean producing States.....	(D)	(D)	63	2,078	18	2,432	...	...

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>Excludes presses used in "prepress solvent extractions" process.

Table 9B.—SEEDS OF BEANS CRUSHED AND OIL PRODUCED, BY METHOD OF EXTRACTION, BY REGIONS AND STATES: 1954

Region and State	Hydraulic press		Continuous screw press		Solvent extraction		Prepress and solvent extraction		Total <sup>1</sup>	
	Quantity crushed (Short tons)	Crude oil produced (1,000 lbs.)	Quantity crushed (Short tons)	Crude oil produced (1,000 lbs.)	Quantity crushed (Short tons)	Crude oil produced (1,000 lbs.)	Quantity crushed (Short tons)	Crude oil produced (1,000 lbs.)	Quantity crushed (Short tons)	Crude oil produced (1,000 lbs.)
COTTONSEED										
United States, total.....	1,624,398	568,091	2,332,172	772,237	686,572	231,879	1,039,620	371,807	5,882,762	1,944,014
East, total.....	638,316	193,192	(D)	(D)	(D)	(D)	...	...	950,470	293,258
Alabama-Georgia.....	412,219	123,884	(D)	(D)	(D)	(D)	...	...	608,533	186,265
North Carolina.....	117,917	36,257	31,298	9,298	...	...	...	...	149,496	45,555
South Carolina.....	108,180	33,051	84,261	28,387	...	...	...	...	192,441	61,438
Valley, total.....	736,445	235,242	536,874	177,242	(D)	(D)	(D)	(D)	1,789,283	597,443
Arkansas-Tennessee.....	275,049	87,857	371,070	123,214	(D)	(D)	(D)	(D)	919,369	308,078
Louisiana-Mississippi.....	461,396	147,385	165,804	54,028	(D)	(D)	(D)	(D)	869,914	289,365
Southwest, total.....	449,637	139,657	1,412,951	468,043	303,454	97,986	842,498	298,909	3,008,540	1,004,595
Arizona-California.....	(D)	(D)	627,453	220,268	(D)	(D)	(D)	(D)	1,031,387	368,546
Oklahoma-Texas.....	(D)	(D)	785,498	247,775	303,454	97,986	(D)	(D)	1,977,153	636,049
All other:	...	...	(D)	(D)	...	...	(D)	(D)	134,469	48,718
Illinois, Missouri, Florida, and New Mexico.....	...	...	(D)	(D)	...	...	(D)	(D)	...	...
SOYBEANS										
United States, total.....	49,104	14,998	397,112	125,852	6,102,761	2,250,605	(2)	(2)	6,548,977	2,401,455
Central soybean producing States, total.....	42,689	13,213	342,905	109,480	5,728,159	2,125,390	(2)	(2)	6,113,753	2,248,083
Illinois.....	...	...	104,157	32,344	2,560,439	957,173	(2)	(2)	2,664,596	989,517
Iowa.....	...	...	127,863	40,658	1,069,824	403,544	...	...	1,197,687	444,202
Ohio.....	...	...	(D)	(D)	715,672	258,231	...	...	726,499	262,212
Indiana.....	...	...	...	...	752,541	278,279	...	...	752,541	278,279
Minnesota.....	...	...	57,820	17,253	365,853	129,344	...	...	423,673	146,597
Missouri.....	...	...	(D)	(D)	(D)	(D)	...	...	227,447	83,063
Kansas.....	...	...	(D)	(D)	(D)	(D)	...	...	(D)	(D)
Nebraska.....	...	...	(D)	(D)	(D)	(D)	...	...	(D)	(D)
Other soybean producing States.....	6,415	1,785	54,207	16,372	374,602	135,215	...	...	435,224	153,372
FLAXSEED										
United States, total.....	...	...	255,827	179,733	...	...	638,386	472,935	894,213	652,668
Pennsylvania.....	...	...	(D)	(D)	...	...	...	...	(D)	(D)
Ohio.....	...	...	(D)	(D)	...	...	...	...	(D)	(D)
Illinois.....	...	...	(D)	(D)	...	...	...	...	(D)	(D)
Minnesota.....	...	...	(D)	(D)	...	...	...	...	(D)	(D)
Montana.....	...	...	(D)	(D)	...	...	...	...	621,984	464,185
California.....	...	...	(D)	(D)	...	...	...	...	(D)	(D)
New York.....	...	...	(D)	(D)	...	...	...	...	(D)	(D)
Texas.....	...	...	(D)	(D)	...	...	...	...	(D)	(D)
New Jersey.....	...	...	(D)	(D)	...	...	...	...	(D)	(D)

D Withheld to avoid disclosing figures for individual companies.

<sup>1</sup> The totals for crude cottonseed and soybean oils shown in this report differ by less than 1 percent of the figures shown in Table 6A, because information on crushing facilities for small establishments was not received.<sup>2</sup> Quantities reported for Prepress Solvent Extraction are included in Solvent Extraction.



## Miscellaneous Chemical Products

This report shows 1954 Census of Manufactures statistics for establishments classified in each of the following industries:

Code	Title
2891--	Printing Ink
2892--	Essential Oils
2893--	Toilet Preparations
2894--	Glue and Gelatin
2895--	Carbon Black
2896--	Compressed and Liquefied Gases
2897--	Insecticides and Fungicides
2898--	Salt
2899--	Chemical Products, Not Elsewhere Classified

Many of the establishments classified in this heterogeneous group, particularly those in Industries 2893 and 2896, are also engaged in merchandising activities. Receipts for merchandising (products bought and resold without further manufacture) are excluded from value of shipments, cost of materials, and value added, but data for these activities are included in other detailed industry statistics, mainly employment and inventories. The amount of merchandising and the cost of such products sold were reported separately and are shown in Table 3.

### 2891--Printing Ink

This industry comprises establishments primarily engaged in manufacturing printing ink, gold and bronze inks, and lithographic ink.

Establishments primarily engaged in manufacturing writing and stamp pad inks are classified in Industry 2899, Chemical Products, N.E.C.; and varnishes for printers' inks in Industry 2851, Paints and Varnishes. For a detailed list of primary products of Industry 2891, refer to Table 6A, product codes 2891011 to 2891098.

The value of shipments of Industry 2891, Printing Ink, in 1954 totaled \$181 million. This included shipments of primary products (printing ink) valued at \$163 million, shipments of secondary products valued at \$18 million, and a negligible amount for miscellaneous receipts.

Industry 2891 shipments of printing ink in 1954 represented 90 percent of its total product shipments (primary and secondary). In 1947, this primary product specialization ratio was 92 percent. Secondary products shipped by Industry 2891 in 1954 consisted mainly of raw materials for printing inks, such as varnishes and allied products, such as paints, \$10 million; and other miscellaneous products, such as dyes and organic colors, totaling \$8 million.

Industry 2891 shipments of printing ink in 1954 represented 95 percent of the printing ink, valued at \$172 million, shipped by all industries. The comparable 1947 coverage ratio was 98 percent.

The manufacture of printing inks is more comparable to that of paints and is quite dissimilar to the manufacture of ordinary writing inks. In addition to mixing such materials as color pigments, oils, varnishes, and driers, many of these plants blend in order that the ink sold may meet the hue and color and other specifications of the customer who prints on paper, plastic, cloth, or other material. Blending is also done at facilities where the employees are primarily engaged in storing and selling. While no measure of such blending activities was secured in the 1954 Census, some plants with blending facilities were classified in Wholesale Trade in 1954. In the 1947 Census, these plants accounted for about 6 percent of the total employment and about 3 percent of the total shipments reported for Industry 2891.

The commodity data for this industry were collected on the basis of end use, for example, letter press, lithography and textile inks. Only to the extent that inks may vary according with their end use is information available concerning their composition. The Bureau of Mines, U. S. Department of the Interior, in its Mineral Industry Surveys, reports that 48,799,000 pounds of carbon black were sold to ink companies in 1954 compared with 32,260,000 pounds in 1947. Quantities of specified animal and vegetable fats and oils and fatty acids consumed in manufacturing printing ink appear in the Census Bureau's Facts for Industry Series M17-1-04, Animal and Vegetable Fats and Oils, 1954.

### 2892--Essential Oils

This industry comprises establishments primarily engaged in distilling, expressing, and refining natural essential oils. Included in this industry are such products as anise oil, citronella oils, eucalyptus oil, lemon oil, orange oil, peppermint oil and wintergreen oil.

Establishments primarily engaged in manufacturing synthetic perfume and flavoring materials are classified in Industry 2829, Industrial Organic Chemicals, N.E.C., and blending and compounding perfume bases and concentrates in Industry 2893, Toilet Preparations. For a detailed list of primary products of Industry 2892, refer to Table 6A, product codes 2892011 to 2892098.

The value of shipments of Industry 2892, Essential Oils, in 1954 totaled \$21 million. This included shipments of primary products (essential oils) valued at \$17 million, shipments of secondary products valued at about \$4 million, and a negligible amount for miscellaneous receipts.

Industry 2892 shipments of essential oils in 1954 represented 83 percent of its total product shipments (primary and secondary). In 1947, this primary product specialization ratio was 71 percent. Secondary products, mainly industrial organic chemicals and flavoring agents shipped by this industry in 1954 totaled about \$4 million.

Industry 2892 shipments of essential oils in 1954 represented 67 percent of the essential oils, valued at \$26 million, shipped by all industries. The comparable coverage ratio in 1947 was 92 percent. This decline is caused by the fact that essential oils, produced by a large firm, was not its primary product in 1954.

The technology and the relationship of cost of materials to value of products vary with the kind of oil produced. While the oils derived from the citrous fruits--lemon, lime, orange, and grapefruit--are derived by hand or machine pressing, other essential oils such as peppermint, spearmint, and wintergreen are usually produced by steam distillation. The yield based on 5 tons of crude material will also vary from as little as 5 ounces for violet oil to as much as 1,800 pounds for clove oil.

2893--Toilet Preparations (Full Standard Industrial Classification Title: Perfume, Cosmetics and other Toilet Preparations)

This industry comprises establishments primarily engaged in manufacturing perfumes, cosmetics, and other toilet preparations such as toilet water, face powder, rouge, lipstick, personal deodorants, washes and lotions; hair dyes, tonics, dressings, and shampoos; bath salts, manicure preparations, tooth paste, and tooth powder. This industry also includes establishments primarily engaged in blending and compounding perfume bases or primarily engaged in manufacturing shampoos and shaving preparations from purchased soap. Establishments primarily engaged in manufacturing synthetic perfume and flavoring ma-

terials are classified in Industry 2829, Industrial Organic Chemicals, N.E.C.; and soap, and soap products prepared in soap kettles located at the same plant, in Industry 2841, Soap and Glycerin.

In the 1947 Census establishments primarily engaged in manufacturing mouthwashes, including gargles and rinses, were classified in Industry 2834, Pharmaceutical Preparations. In 1954, this item is classified in Industry 2893. No retabulations of the 1947 data have been made since this change does not significantly affect industry (establishment) data. For other comments concerning classification, see report MC-28C, Drugs and Medicines. For a detailed list of primary products of Industry 2893, refer to Table 6A, product codes 2841331 to 2841341 and 2893111 to 2893498.

The value of shipments of Industry 2893, Toilet Preparations, in 1954 totaled \$629 million. This included shipments of primary products (toilet preparations) valued at \$570 million, shipments of secondary products valued at \$54 million, and miscellaneous receipts (mainly contract work on materials owned by others) of \$5 million.

Receipts for merchandising (products bought and resold without further manufacture or processing) valued at \$38 million are excluded from the \$629 million value of shipments of Industry 2893. Data relating to these merchandising receipts are also excluded from the cost of materials and value added by manufacture, but these activities are reflected in other detailed industry statistics, mainly employment and inventory.

Industry 2893 shipments of toilet preparations in 1954 represented 91 percent of its total product shipments (primary and secondary). In 1947, this primary product specialization ratio was 84 percent. Secondary products shipped by this industry in 1954 consisted mainly of soaps, \$14 million, pharmaceutical preparations, \$21 million, and miscellaneous products, \$12 million.

Industry 2893 shipments of toilet preparations in 1954 represented 77 percent of the toilet preparations, valued at \$744 million, shipped by all industries. The comparable coverage ratio in 1947 was 72 percent. Other industries shipping toilet preparations in 1954 consisted mainly of Industry 2841, Soap and Glycerin, \$121 million, and Industry 2834, Pharmaceutical Preparations, \$29 million.

Only dollar figures representing the cost of denatured ethyl alcohol purchased by establishments employing six or more employees and consuming \$5,000 or more are shown in Table 7. Data showing the quantities of specially denatured alcohol consumed in specified toilet preparations are published by the Internal Revenue Service. Quantities of specified animal and vegetable fats and oils and fatty acids consumed in manufacturing toilet preparations appear in the Census Bureau's Facts for Industry Series M17-1-04, Animal and Vegetable Fats and Oils, 1954.

#### 2894--Glue and Gelatin

This industry comprises establishments primarily engaged in manufacturing (1) industrial and household adhesives, glues, and cements from vegetable or animal materials including purchased casein and synthetic resins; and (2) edible, technical, photographic, or pharmaceutical gelatins from animal material. Establishments primarily engaged in manufacturing rubber cement are classified in Industry 3099, Rubber Industries, N.E.C.; dessert preparations with gelatin base in Industry 2099, Food Preparations, N.E.C.; vegetable gelatin or agar-agar in Industry 2832, Botanical Products; and dental glue and cements in Industry 3843, Dental Equipment and Supplies.

The S.I.C. definition for Industry 2894 has been amended by the Bureau of the Budget to include household adhesives, cements, and mucilage. In the 1947 Census of Manufactures (and subsequent Annual Surveys,) these products were classified in Industry 2899, Chemical Products, N.E.C. The 1947 Census data have been revised to reflect this change and are comparable with 1954; comparable data for the intervening years are not available. For a detailed list of primary products of Industry 2894, refer to Table 6A, product codes 2894111 to 2894298.

The value of shipments of Industry 2894, Glue and Gelatin, in 1954 totaled \$139 million. This included shipments of primary products (glue and gelatin) valued at \$121 million, shipments of secondary products valued at \$17 million, and miscellaneous receipts of \$1 million.

Industry 2894 shipments of glue and gelatin in 1954 represented 87 percent of its total product shipments (primary and secondary). In 1947, this primary product specialization ratio was 82 percent. Secondary products shipped by this industry in 1954 consisted mainly of grease and tallow, \$4 million; feed and fertilizer by products, \$2 million; and other chemical products, \$11 million.

Industry 2894 shipments of glue and gelatin in 1954 represented 67 percent of the glue and gelatin valued at \$180 million, shipped by all industries. The comparable coverage ratio in 1947 was 76 percent. Other industries mainly Industry 2011, Meat Packing; Industry 2886, Grease and Tallow; and Industry 2823, Plastics Materials, shipped in 1954 glue and gelatin totaling \$59 million.

As indicated in Table 8, few, if any, of the manufacturers of gelatin, produce glue or other adhesives. Yet animal glues and gelatin are very closely related, and glue has been defined as a "gelatin which has been heated longer in water." Both are derived by hydrolysis from collagen, the white fibers of the connective tissues of the animal body, particularly in the skin, bones, and tendons.

Data for gelatin and animal glue shown in Table 6A, are generally in close agreement with the monthly data on production and shipments contained in Facts for Industry Series M19M.1, Gelatin, and series M19M.2, Animal Glue. The data shown in series M19M.1 also include statistics showing that approximately 79 percent of all gelatin was produced from hides and the remainder from ossein. The differences in shipments of photographic and technical grades of gelatin are due to modified procedures used in reporting Census of Manufactures data. The Census of Manufactures data also include values for gelatin capsules and theatrical gelatin not reported in the Facts for Industry survey which is limited to reports by primary producers only. The information for hide glue appearing in Facts for Industry Series M19M.2 also shows quantities by grade, based upon gram strength.

2895--Carbon Black (Full Standard Industrial Classification Title: Bone Black, Carbon Black, and Lamp Black)

This industry comprises establishments primarily engaged in manufacturing bone black, carbon black (channel and furnace black), and lamp black. Establishments primarily engaged in manufacturing activated carbons are classified in Industry 2819, Industrial Inorganic Chemicals, N.E.C.; and charcoals in Industries 2861 and 2862, Softwood and Hardwood Distillation. For a detailed list of primary products of Industry 2895, refer to Table 6A, product codes 2895111 to 2895251.

The value of shipments of Industry 2895, Carbon Black, in 1954 totaled \$102 million. As in 1947 this consisted almost entirely of shipments of carbon, lamp and bone blacks.

Industry 2895 shipments of blacks in 1954 represented 100 percent of its total product shipments (primary and secondary). In 1947, this primary product specialization ratio was also 100 percent.

Industry 2895 shipments of primary products (carbon blacks and other blacks) in 1954 represented 98 percent of these products, valued at \$103 million, shipped by all industries. The comparable coverage ratio in 1947 was 97 percent.

The plants manufacturing each of the several "blacks" specialize since the raw materials consumed and the manufacturing processes vary. Data appearing in Table 7, Materials Consumed, relate primarily to the raw materials, fuel oil and natural gas, used in the manufacture of carbon black.

#### 2896--Compressed and Liquefied Gases

This industry comprises establishments primarily engaged in manufacturing gases for sale in compressed, liquid, and



solid form, such as acetylene, carbon dioxide (dry ice), helium, nitrous oxide, refrigerant gases (except ammonia), and oxygen. Establishments primarily engaged in manufacturing ammonia, chlorine, and sulfur dioxide are classified in Group 281, Industrial Inorganic Chemicals. Natural gasoline plants engaged in the production of gases in compressed and liquefied form are classified in Mining industries, and petroleum refineries producing these gases in Industry 2911, Petroleum Refining. Establishments primarily engaged in the shipment of purchased gases, whether received in gaseous or liquid form, are excluded from manufacturing and classified in the trade industries.

For a detailed list of primary products of Industry 2896, refer to Table 6A, product codes 2896111 to 2896498.

The value of shipments of Industry 2896, Compressed and Liquefied Gases, in 1954 totaled \$168 million. This included shipments of primary products (compressed and liquefied gases) valued at \$165 million, shipments of secondary products valued at \$2 million, and miscellaneous receipts of \$1 million.

Receipts for merchandising (products bought and resold without further manufacture or processing) valued at \$33 million are excluded from the \$168 million value of shipments of Industry 2896. Data relating to these merchandising receipts are also excluded from the cost of materials and value added by manufacture, but these activities are reflected in other detailed industry statistics, mainly employment and inventory.

Industry 2896 shipments of compressed and liquefied gases in 1954 represented 99 percent of its total product shipments (primary and secondary). In 1947, this primary product specialization ratio was 100 percent.

Industry 2896 shipments of compressed and liquefied gases in 1954 represented 84 percent of the compressed and liquefied gases, valued at \$195 million, shipped by all industries. The comparable coverage ratio in 1947 was also 84 percent. Other industries mainly Industry 3313, Electrometallurgical Products, and Industry 2812, Alkalies and Chlorine, shipped compressed and liquefied gases in 1954 totaling \$31 million.

Plants producing different gases report wide variations in their ratios of cost of materials to value of output. These variations are due to the different manufacturing processes employed. For example, plants producing elemental gases by liquefaction of air or electrolysis of water have relatively low materials costs but use large amounts of electricity.

On the other hand, plants producing acetylene from calcium carbide have relatively high materials costs. The need for abundant low cost power in producing calcium carbide has resulted in producing a larger proportion of the expanding production of acetylene, particularly for use in chemical synthesis, from natural gas. Although product statistics were compiled for acetylene made from materials other than calcium carbide, these data are not shown separately to prevent disclosing information for individual companies.

Many producers sell their byproduct gases to other companies which convert the gases to a different form, or which maintain costly sales organizations for marketing the gases. To avoid duplication in the products data, care was taken to include in Table 6A, the quantity and value of products reported by primary producers only. Thus the derived unit prices shown for several of the gases are not representative "market" values, since the shipment values of primary producers exclude certain refining and marketing costs.

Monthly data showing the production of argon, carbon dioxide, hydrogen, nitrogen, and oxygen appear in Facts for Industry Series M19A, Inorganic Chemicals. The totals appearing in this report are higher than the annual total shown in the Facts for Industry report since the Census of Manufactures figures include reports for several additional establishments. The helium statistics shown in the footnote to Table 6A relate to the quantities produced and shipped by Government-owned and operated plants; figures for such establishments being excluded from the scope of the Census of Manufactures. The figures for "Other hydrocarbon gases" exclude statistics for such gases as

propane, butane and propylene; data for which are included in the product statistics for Industry 2911, Petroleum Refining. Product statistics for organic gases, such as halogenated hydrocarbons and cyclopropane are included in the product statistics for Industry 2829, Miscellaneous Organic Chemicals.

#### 2897—Insecticides and Fungicides

This industry comprises establishments primarily engaged in manufacturing inorganic insecticides such as copper, calcium, and lead arsenates, lime-sulfur, sulfur-dust, Paris green, and calcium and sodium arsenite; organic insecticides such as rotenone, pyrethrum, and nicotine-bearing insecticides; and miscellaneous insecticides such as organic thiocyanates, DDT, xanthone, and similar products; and fungicides such as copper, sulfur, and mercury-containing fungicides. Other products included in this industry are intermediate natural products used in making agricultural preparations, such as ground rotenone or pyrethrum extract. Establishments primarily engaged in manufacturing household insecticides (including rodenticides, plant fumigants, weed killers, soil conditioners and fumigants, and animal dips) are classified in Industry 2899, Chemical Products, N.E.C., while plants primarily engaged in producing synthetic organic chemicals and inorganic compounds such as white arsenic or copper sulfate used for agricultural poisons are classified in Industry 2829, Industrial Organic Chemicals, N.E.C., and Industry 2819, Industrial Inorganic Chemicals, N.E.C., respectively.

As indicated above, Industry 2897 now includes plants primarily engaged in producing lead and calcium arsenate. In 1947, such plants were included in Industry 2819, Industrial Inorganic Chemicals, N.E.C. The 1947 Census data have not been retabulated for these changes since the industry data are not significantly affected. For a detailed list of primary products of Industry 2897, refer to Table 6A, product codes 2897011 to 2897085.

The value of shipments of Industry 2897, Insecticides and Fungicides, in 1954 totaled \$174 million. This included shipments of primary products (insecticides and fungicides), valued at \$145 million, shipments of secondary products valued at \$27 million, and miscellaneous receipts of \$2 million.

Receipts for merchandising (products bought and resold without further manufacture or processing) valued at \$46 million are excluded from the \$174 million value of shipments of Industry 2897. Data relating to these merchandising receipts are also excluded from the cost of materials and value added by manufacture, but these activities are reflected in other detailed industry statistics, mainly employment and inventory.

Industry 2897 shipments of insecticides and fungicides in 1954 represented 84 percent of its total product shipments (primary and secondary). In 1947, this primary product specialization ratio was 87 percent. Secondary products shipped by this industry in 1954 consisted mainly of household insecticides and repellents and weed killers, \$6 million, and industrial organic chemicals, \$11 million.

Industry 2897 shipments of insecticides and fungicides in 1954 represented 82 percent of the insecticides and fungicides, valued at \$178 million, shipped by all industries. This coverage ratio was 68 percent in 1947. Other industries shipping insecticides and fungicides in 1954 consisted mainly of Industry 2819, Industrial Inorganic Chemicals, N.E.C., \$6 million; Chemical Products, N.E.C., \$8 million; and a number of other chemical industries, \$18 million.

As indicated above, the primary products of this industry are preparations, more commonly known as formulations. While such products are produced generally by plants primarily engaged in "mixing" operations only, a number of plants not only formulate but also engage in the manufacture of the basic inorganic and organic agricultural poisons. This situation partially accounts for the "product mix" and relatively low coverage ratio for this industry. In addition, a number of establishments classified in the Trade industries also do some formulations. No measure of the manufacturing activities performed by such trade establishments was secured in the 1954 Censuses.

Table 7, Materials Consumed, by kind, shows only crude sulfur data. Data for organic materials included in insecticidal and fungicidal mixtures appear in the U. S. Tariff Commission publication, Synthetic Organic Chemicals. Monthly data for lead and calcium arsenate appear in the Census Bureau's Facts for Industry Series M19A, Inorganic Chemicals.

#### 2898--Salt

This industry comprises establishments primarily engaged in manufacturing edible salt from rock salt and from natural or artificial brines. Establishments engaged in salt mining are excluded from Manufacturing and classified in Mining industries.

The value of shipments of Industry 2898, Salt, in 1954 totaled \$72 million. This included shipments of primary products (salt) valued at \$69 million, shipments of secondary products valued at \$3 million, and a negligible amount for miscellaneous receipts.

Industry 2898 shipments of salt in 1954 and 1947 represented 96 percent of its total product shipments (primary and secondary). In 1947, this primary product specialization ratio was 100 percent.

Industry shipments of salt in 1954 represented 97 percent of the salt, valued at \$72 million, shipped by all industries. The comparable coverage ratio in 1947 was 98 percent.

The data shown in the publication exclude information relating to the salt content of brine produced and used in the same plant in the manufacture of chemicals. However, the figures include a small amount of salt transferred from one plant to a second for further purification.

Additional data relating to the production of rock salt appear in reports of the 1954 Census of Mineral Industries. The U. S. Department of Interior, Bureau of Mines, also publishes data showing quantities of salt shipped (by States of destination) and quantities consumed (by class and use).

**2899--Chemical Products, N.E.C.** (Full Standard Industrial Classification Title: Chemicals and Chemical Products, Not Elsewhere Classified)

This industry comprises establishments primarily engaged in manufacturing miscellaneous chemical products, not elsewhere classified, such as bluing, laundry soaps, mucilage, writing and stamp pad inks, and dextrine sizes; agricultural, industrial, and household disinfectants and deodorants; household insecticides and repellents such as fly sprays, rat, ant, and roach poisons and moth repellents; and industrial compounds, such as boiler and insulating compounds, metal, oil, and water-

treating compounds, water-proofing compounds, and chemical supplies for foundries. Such specialties containing animal, vegetable or mineral oil bases, hydraulic brake fluids; dielectric oils; rust preventatives; or cutting, grinding, or drawing compounds or paste are classified in Major Group 29, Products of Petroleum and Coal.

The S.I.C. definition for Industry 2899 has been amended by the Bureau of the Budget by the transfer of mucilage, household adhesives, and cements from Industry 2899, to 2894. In addition, blenders of chemical specialties containing animal and vegetable oils, formerly included in this industry, are now classified in Industry 2992, Lubricants, N.E.C. The 1947 Census data shown in the tables below have been retabulated on the basis of the revised industry content for comparability with the 1954 data. For a detailed list of primary products of Industry 2899, refer to Table 6A, product codes 2889111 to 2899387.

The value of shipments of Industry 2899, Chemical Products, N.E.C., in 1954 totaled about \$532 million. This included shipments of primary products (chemical products, n.e.c.) valued at \$419 million, shipments of secondary products valued at \$100 million, and miscellaneous receipts of \$13 million.

Receipts for merchandising (products bought and resold without further manufacture or processing) valued at \$45 million are excluded from the \$532 million value of shipments of Industry 2899. Data relating to these merchandising receipts are also excluded from the cost of materials and value added by manufacture, but these activities are reflected in other detailed industry statistics, mainly employment and inventory.

Industry 2899 shipments of primary products in 1954 represented 81 percent of its total product shipments (primary and secondary). In 1947, this primary product specialization ratio was 75 percent. Secondary products shipped by this industry in 1954 consisted mainly of cleaning and polishing preparations, \$20 million; insecticides and fungicides, \$8 million; industrial inorganic chemicals, n.e.c., \$3 million; and industrial organic chemicals, \$8 million.

Industry 2899 shipments of primary products (chemical products, n.e.c.) in 1954 represented 70 percent of these products, valued at \$597 million, shipped by all industries. The comparable coverage ratio in 1947 was 64 percent. Other industries shipping chemical products, n.e.c., in 1954 consisted mainly of Industry 2819, Inorganic Chemicals, N.E.C., \$20 million; Industry 2829, Industrial Inorganic Chemicals, N.E.C., \$6 million; and Industry 2842, Cleaning and Polishing Preparations, \$26 million.

The general statistics (employment, payrolls, value of shipments, cost of materials, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products, and, for that matter, their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (Tables 1-4) with product statistics (Table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in Table 5A which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry made as secondary products by establishments classified in other industries.



## MISCELLANEOUS CHEMICAL PRODUCTS

28H-5

Table 1.—GENERAL STATISTICS FOR THE UNITED STATES: 1954 AND EARLIER YEARS

(For explanation of column captions see Introduction)

Industry and census year	Establishments, number	All employees		Production workers		Value added by manufacture <sup>2</sup> (\$1,000)	Cost of materials, etc. <sup>3</sup> (\$1,000)	Value of shipments <sup>4</sup> (\$1,000)
		1	Payroll (\$1,000)	1	Wages (\$1,000)			
		Number		Number				
Printing ink (S.I.C. 2891):								
1954.....	271	7,609	35,713	5,268	20,746	87,289	93,349	180,638
1953 <sup>5</sup> .....	(NA)	8,238	39,468	5,601	22,374	89,933	88,721	178,654
1952 <sup>5</sup> .....	(NA)	8,078	39,108	5,326	21,491	86,893	90,024	176,917
1951 <sup>5</sup> .....	(NA)	7,776	35,521	5,141	19,011	76,459	84,337	160,796
1950 <sup>5</sup> .....	(NA)	6,868	28,475	4,673	16,466	70,215	73,349	143,564
1949 <sup>5</sup> .....	(NA)	6,113	23,364	4,228	13,319	63,033	66,929	129,962
1947.....	239	6,021	20,496	4,154	11,890	51,949	63,759	115,708
1939 <sup>6</sup> .....	197	(NA)	(NA)	2,480	3,564	23,288	23,955	47,243
1937.....	184	3,927	7,268	2,793	4,085	22,243	25,104	47,347
1935.....	191	3,346	6,124	2,370	3,234	15,933	18,602	34,535
1933.....	160	2,719	4,094	2,094	2,663	13,562	12,604	26,166
1929.....	147	3,561	8,269	2,448	3,957	23,545	19,205	42,750
1921.....	97	2,471	4,762	1,676	2,470	10,225	10,644	20,869
1919.....	90	3,011	5,392	1,988	2,575	11,583	14,661	26,244
1914.....	70	2,253	2,920	1,391	1,064	7,024	6,806	13,830
1909.....	71	1,816	1,865	1,121	772	4,691	4,175	8,866
1899.....	60	756	643	503	298	1,544	1,536	3,080
Essential oils (S.I.C. 2892):								
1954.....	37	547	2,846	330	1,215	5,484	15,348	20,832
1947.....	42	1,151	3,787	896	2,510	14,477	21,262	35,739
1939.....	15	(NA)	(NA)	440	592	4,921	7,401	12,322
1937.....	13	259	465	195	266	1,434	3,705	5,139
1935.....	12	234	451	166	219	939	2,603	3,542
1933.....	12	241	368	175	222	851	2,243	3,094
1929.....	22	359	632	265	326	2,849	3,804	6,653
1921.....	27	377	526	299	364	874	2,548	3,422
1919.....	78	419	620	321	391	1,795	3,903	5,698
1914.....	105	319	239	249	133	749	1,565	2,314
1909.....	68	335	184	290	123	482	1,255	1,737
1899.....	47	207	86	168	61	224	589	813
Toilet preparations (S.I.C. 2893):								
1954.....	710	24,809	94,726	16,185	47,728	419,666	208,986	628,651
1953 <sup>5</sup> .....	(NA)	23,128	84,237	15,276	43,586	381,536	193,506	575,042
1952 <sup>5</sup> .....	(NA)	25,373	88,108	17,253	46,188	391,470	200,650	592,120
1951 <sup>5</sup> .....	(NA)	26,050	85,021	17,595	43,366	317,018	186,665	503,683
1950 <sup>5</sup> .....	(NA)	25,689	75,455	17,883	40,799	300,712	173,494	474,206
1949 <sup>5</sup> .....	(NA)	25,543	73,354	17,353	38,790	278,793	154,160	432,953
1947.....	719	27,247	69,398	19,047	38,978	232,118	149,258	381,371
1939.....	539	15,614	21,717	10,363	9,644	88,956	58,510	147,466
1937.....	478	13,063	15,514	10,158	9,262	78,431	53,905	132,336
1935.....	558	13,128	16,121	9,662	8,586	74,770	44,759	119,529
1933.....	490	11,261	11,336	8,978	7,470	63,874	33,175	97,049
1931 <sup>7</sup> .....	658	(NA)	(NA)	10,026	9,674	109,634	44,184	153,818
1929.....	815	19,229	29,870	13,109	13,763	135,142	58,299	193,441
1927.....	705	15,875	23,559	10,463	10,965	108,481	52,765	161,246
1925.....	594	13,158	18,698	8,714	8,537	82,577	46,933	129,510
1923.....	465	11,906	15,959	7,761	7,102	62,605	37,636	100,241
1921.....	422	8,988	11,264	5,838	5,358	44,528	28,013	72,541
1919.....	569	9,073	10,413	5,405	3,983	33,466	26,147	59,613
1914.....	496	5,037	3,748	2,897	1,280	9,434	7,465	16,899
1909.....	429	3,859	2,642	2,375	994	8,578	5,634	14,212
1904.....	292	2,898	1,646	2,082	769	6,351	4,782	11,133
1899.....	262	2,572	1,326	1,764	569	3,953	3,135	7,088
Glue and gelatin (S.I.C. 2894):								
1954.....	230	6,753	29,192	4,814	17,683	64,771	74,580	139,352
1947 <sup>8</sup> .....	174	7,936	25,453	5,962	16,502	66,290	80,078	145,157
Carbon black (S.I.C. 2895):								
1954.....	47	3,410	16,466	2,801	13,029	62,424	39,191	101,616
1953 <sup>5</sup> .....	(NA)	3,643	15,987	2,905	12,862	61,045	44,707	105,752
1950 <sup>5</sup> .....	(NA)	3,542	14,155	3,054	12,239	59,492	40,702	99,702
1947.....	59	3,184	10,017	2,834	8,456	44,962	28,345	73,592
1939.....	53	1,909	2,718	1,574	2,001	8,523	6,104	14,627
1937.....	62	2,396	3,264	2,190	2,712	11,618	7,236	18,854
1935.....	55	2,038	2,428	1,828	1,937	9,477	5,334	14,811
1933.....	48	1,570	1,477	1,449	1,206	4,497	4,010	8,507
1931.....	62	(NA)	(NA)	1,039	1,344	4,513	5,022	9,535
1929.....	77	2,137	3,280	1,915	2,583	11,074	9,096	20,170

See footnotes at end of table.

## MANUFACTURES—INDUSTRY STATISTICS

Table 1.—GENERAL STATISTICS FOR THE UNITED STATES: 1954 AND EARLIER YEARS—Continued

(For explanation of column captions see Introduction)

Industry and census year	Establishments, number	All employees		Production workers		Value added by manufacture <sup>2</sup>	Cost of materials, etc. <sup>3</sup>	Value of shipments <sup>4</sup>
		Number <sup>1</sup>	Payroll (\$1,000)	Number <sup>1</sup>	Wages (\$1,000)			
Carbon black—con.								
1927.....	67	1,796	2,556	1,553	2,047	7,691	6,571	14,262
1925.....	66	1,728	2,240	1,505	1,722	8,910	5,655	14,565
1923.....	68	1,679	2,370	1,303	1,461	9,305	5,295	14,600
1921.....	45	1,017	1,516	826	980	4,436	3,745	8,181
1919.....	35	796	1,121	675	808	3,338	2,848	6,186
1914.....	27	420	336	339	231	778	686	1,464
1909.....	27	295	228	228	149	648	445	1,093
1904.....	25	247	154	200	105	445	203	648
1899.....	15	106	70	85	46	254	106	360
Compressed and liquefied gases (S.I.C. 2896):								
1954.....	428	10,363	44,092	6,315	25,288	111,254	56,422	167,674
1953 <sup>5</sup> .....	(NA)	11,263	48,379	7,278	30,355	120,249	59,524	179,773
1952 <sup>5</sup> .....	(NA)	11,797	47,225	7,601	30,015	114,697	47,014	161,711
1951 <sup>5</sup> .....	(NA)	11,289	41,790	7,439	26,786	102,626	44,593	147,219
1950 <sup>5</sup> .....	(NA)	8,547	30,417	5,727	19,484	85,508	31,661	117,169
1949 <sup>5</sup> .....	(NA)	8,646	28,444	5,614	18,071	76,240	30,142	106,382
1947.....	371	8,983	25,241	6,139	16,996	66,833	26,656	93,489
1939.....	379	6,450	11,465	3,960	5,854	39,833	13,532	53,365
1937.....	356	6,180	9,726	4,655	6,591	42,174	14,244	56,418
1935.....	330	5,691	8,157	3,788	4,408	30,780	11,239	42,019
1933.....	326	4,193	5,573	2,763	3,154	23,421	8,585	32,007
1931.....	349	(NA)	(NA)	2,844	3,896	31,671	10,135	41,806
1929.....	354	6,446	11,041	3,390	5,378	37,661	14,529	52,190
1927 <sup>9</sup> .....	313	5,753	9,727	3,212	4,948	38,798	11,749	50,547
Insecticides and fungicides (S.I.C. 2897):								
1954.....	265	6,510	25,218	4,276	13,211	62,099	112,514	174,613
1952 <sup>5</sup> .....	(NA)	6,814	26,009	4,207	13,211	60,564	110,475	171,039
1951 <sup>5</sup> .....	(NA)	6,352	23,575	4,082	12,734	77,562	120,020	197,582
1950 <sup>5</sup> .....	(NA)	5,098	15,067	3,278	8,204	52,442	75,780	128,222
1949 <sup>5</sup> .....	(NA)	4,371	13,530	3,004	7,847	38,740	60,092	98,832
1947.....	165	4,060	11,524	2,789	6,448	25,018	41,994	67,010
1939 <sup>6</sup> .....	83	(NA)	(NA)	656	595	3,825	5,348	9,173
Salt (S.I.C. 2898):								
1954.....	38	4,017	16,379	3,346	12,694	48,936	22,998	71,933
1947.....	38	4,809	12,762	4,056	9,826	25,197	20,859	46,056
1939.....	40	4,555	5,928	3,737	4,235	17,961	9,569	27,530
1937 <sup>10</sup> .....	39	(NA)	(NA)	3,846	4,480	17,660	10,249	27,909
Chemical products, n.e.c. (S.I.C. 2899):								
1954.....	1,204	21,415	95,026	13,346	45,473	266,627	264,586	531,213
1947 <sup>8</sup> .....	1,025	17,629	53,619	11,688	27,946	159,514	157,502	318,063

\* Revised

NA Not available.

<sup>1</sup>For the period 1949-1954, figures are based on employment for the payroll periods ended nearest the 15th of March, May, August and November. For 1947, they represent the average of 12 monthly figures. For earlier years, the production worker average was calculated as in 1947, but the figure for all employees represents the sum of the annual average number of production workers and the number of nonproduction workers reported for one payroll period (usually in October).

<sup>2</sup>Value of products less cost of materials, supplies, fuel, electric energy and contract work. See Introduction, "Value Added by Manufacture." For "Glue and gelatin" and "Carbon black" industries, 1947 value added by manufacture does not equal the published value of shipments less cost of materials, etc. because an estimated value of production was used in the calculation in place of value of shipments. Since the 1949-1952 estimates were derived from 1947 base totals, the same inequality may exist for these years.

<sup>3</sup>Figures for years prior to 1935 do not include cost of contract work.

<sup>4</sup>For 1929, and 1927-1954, the figures represent value of shipments, except in the case of "Glue and gelatin" and "Carbon black" for 1929 where they represent value of production; for all other years, the figures represent value of production. See Introduction, "Value of Shipments."

<sup>5</sup>The figures for 1949-1953 represent estimates derived from a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the Annual Survey of Manufactures volumes for this period. Estimates with a standard error in excess of 15 percent generally have been omitted from this table.

<sup>6</sup>The figures for 1939 are not entirely comparable with those for earlier years. For "Printing ink," value added by manufacture for 1939 on a basis comparable with earlier years was \$24.0 million. No comparable data prior to 1939 are available for "Insecticides and fungicides."

<sup>7</sup>An extensive revision was made in 1933 in the schedule used for "Toilet preparations." The figures for 1931, but not for earlier years, were revised to make them comparable with those for 1933. Value added by manufacture for 1931 on a basis comparable with earlier years was \$111.6 million.

<sup>8</sup>Revised 1947 Census industry data comparable with 1954 are shown in this table. No comparable data are available for earlier years.

<sup>9</sup>"Compressed and liquefied gases" was not shown as a separate industry prior to 1927, but was included with "Chemicals, n.e.c."

<sup>10</sup>The figures for "Salt" prior to 1937 are not sufficiently comparable with those for later years to be shown in this table because they include data for establishments mining rock salt without further refining.

MISCELLANEOUS CHEMICAL PRODUCTS

28H-7

Table 2.—GENERAL STATISTICS BY REGIONS AND STATES: 1954 AND 1947  
(For explanation of column captions see Introduction)

Industry, region, and State <sup>1</sup>	1954											1947	
	Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
	Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
Printing ink (S.I.C. 2891), total.....	271	87	7,609	35,713	5,268	10,699	20,746	87,289	93,349	180,638	6,336	6,021	51,949
New England.....	15	...	114	450	82	164	294	1,235	1,200	2,435	97	185	1,197
Middle Atlantic.....	101	37	3,385	16,043	2,265	4,619	8,997	36,461	40,507	76,969	4,504	2,732	23,271
New York.....	50	12	1,147	5,570	695	1,387	2,558	8,959	8,608	17,567	470	1,458	12,003
New Jersey.....	28	17	1,530	7,328	1,092	2,259	4,625	20,684	24,031	44,715	3,852	485	5,441
Pennsylvania.....	23	8	707	3,145	478	971	1,812	6,818	7,868	14,686	181	789	5,827
East North Central.....	76	30	2,612	12,390	1,839	3,748	7,368	32,649	36,266	68,916	1,069	2,085	18,122
Ohio.....	22	8	594	2,929	387	777	1,559	6,690	7,153	13,844	114	498	3,365
Illinois.....	39	18	1,674	7,989	1,189	2,422	4,742	22,615	24,572	47,187	819	1,340	12,675
Michigan.....	8	3	260	1,129	204	428	863	2,459	3,692	6,151	17	193	1,735
West North Central.....	13	6	244	1,186	164	342	611	2,299	2,088	4,388	59	234	1,655
Missouri.....	8	5	169	815	113	240	405	1,405	1,390	2,796	(D)	177	1,282
South Atlantic.....	18	2	222	1,095	147	298	488	2,161	2,527	4,689	39	271	2,054
East South Central.....	5	...	38	119	23	43	68	262	320	583	5		
West South Central.....	14	3	147	582	98	203	341	1,667	1,561	3,229	23		
West.....	29	9	844	3,845	646	1,279	2,576	10,551	8,877	19,429	536	514	5,650
California.....	22	9	774	3,556	597	1,182	2,377	9,898	8,222	18,120	525	482	5,428
Essential oils (S.I.C. 2892), total.....	37	10	547	2,846	330	636	1,215	5,484	15,348	20,832	238	1,151	14,477
All other States.....	31	6	362	1,944	220	420	771	3,988	10,330	14,317	163	880	(D)
New Jersey.....	6	4	185	902	110	216	444	1,496	5,018	6,515	75	271	(D)
Toilet preparations (S.I.C. 2893), total.....	710	167	24,809	94,726	16,185	31,051	47,728	419,666	208,986	628,651	7,537	27,247	232,118
New England.....	28	8	1,872	6,805	1,169	2,268	3,294	26,723	16,511	43,234	403	1,940	9,977
Connecticut.....	12	7	1,480	5,541	912	1,774	2,492	22,488	14,439	36,927	320	1,497	6,603
Middle Atlantic.....	290	77	13,179	50,717	8,743	17,069	26,255	197,993	101,561	299,555	3,824	13,938	135,651
New York.....	207	45	7,628	28,642	5,286	10,491	15,050	79,403	48,718	128,121	1,591	7,783	50,975
New Jersey.....	57	30	5,244	21,285	3,283	6,241	10,770	115,154	50,987	166,142	2,213	5,749	82,471
Pennsylvania.....	26	2	305	790	172	336	433	3,435	1,855	5,291	19	406	2,205
East North Central.....	141	35	5,021	20,548	3,269	6,245	10,178	110,413	56,851	167,265	2,101	6,181	44,005
Illinois.....	76	22	2,919	10,933	2,118	4,056	6,200	61,455	33,456	94,912	852	3,539	28,352
Michigan.....	17	3	186	659	120	217	298	1,634	973	2,607	34	225	1,085
West North Central.....	59	15	1,821	6,310	1,156	2,044	3,239	56,806	17,239	74,046	393	2,790	27,124
Minnesota.....	19	7	1,141	4,251	684	1,291	2,325	50,658	14,745	65,403	342	1,639	19,426
Missouri.....	30	7	617	1,911	425	666	822	5,869	2,286	8,156	42	917	6,998
South Atlantic.....	33	7	672	2,286	334	632	773	6,769	2,997	9,767	121	477	2,587
East South Central.....	23	4	346	1,057	205	390	386	2,794	1,590	4,384	46	373	1,957
Tennessee.....	13	4	304	980	176	343	341	2,670	1,484	4,155	41	284	(D)
West South Central.....	25	3	236	709	157	293	366	1,539	1,110	2,650	58	174	782
Texas.....	17	3	185	598	120	231	305	1,202	794	1,997	50	115	579
Mountain.....	7	1	55	193	45	92	125	352	346	698	13	52	158
Pacific.....	104	17	1,605	6,097	1,103	2,014	3,109	16,273	10,776	27,050	575	1,322	9,877
California.....	97	17	1,574	6,004	1,081	1,988	3,065	16,048	10,648	26,697	568	1,269	9,675
Glue and gelatin (S.I.C. 2894), total.....	230	69	6,753	29,192	4,814	9,425	17,683	64,771	74,580	139,352	2,945	7,936	66,290
New England.....	32	12	1,653	7,614	1,236	2,444	5,097	17,094	20,296	37,391	561	1,961	17,342
Massachusetts.....	27	12	1,622	7,532	1,215	2,400	5,042	16,927	20,103	37,030	(D)	(D)	(D)
Middle Atlantic.....	82	27	2,388	9,838	1,603	3,238	5,524	22,394	24,045	46,439	1,193	2,895	22,683
New York.....	42	13	1,062	4,452	734	1,445	2,573	9,040	12,085	21,125	435	1,345	11,460
New Jersey.....	19	5	626	2,527	447	991	1,676	7,980	6,179	14,160	428	883	(D)
Pennsylvania.....	21	9	699	2,858	421	802	1,274	5,374	5,780	11,154	330	667	(D)
East North Central.....	56	19	1,850	8,053	1,382	2,573	4,931	16,749	16,659	33,409	584	2,299	18,230
Ohio.....	13	5	225	915	151	159	255	1,726	1,902	3,629	18	(D)	(D)
Illinois.....	29	10	1,001	4,476	697	1,240	2,508	9,011	10,571	19,582	230	1,422	11,353
West North Central.....	14	5	229	957	148	282	461	1,809	2,615	4,424	121	222	1,125
Missouri.....	8	3	119	505	69	146	211	1,031	1,745	2,777	105	(D)	(D)

See footnotes at end of table.



## MANUFACTURES—INDUSTRY STATISTICS

Table 2.—GENERAL STATISTICS BY REGIONS AND STATES: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Industry, region, and State <sup>1</sup>	1954											1947	
	Establishments, number		All employees		Production workers			Value added by manufacture	Cost of materials, etc.	Value of shipments	Capital expenditures, new	All employees, number	Value added by manufacture
	Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)		(\$1,000)
Glue and gelatin, etc.—Continued													
South.....	23	2	215	809	141	275	426	1,970	3,574	5,545	52	(D)	(D)
Pacific.....	23	4	416	1,920	301	609	1,242	4,753	7,388	12,142	432	(D)	(D)
Carbon black (S.I.C. 2895), total.....	47	37	3,410	16,466	2,801	6,112	13,029	62,424	39,191	101,616	10,597	3,184	44,962
All other States.....	12	10	627	2,877	469	1,025	2,136	10,015	7,289	17,304	4,496	709	9,236
Louisiana.....	10	7	859	3,899	775	1,728	3,410	14,012	7,261	21,273	2,656	521	5,769
Texas.....	25	20	1,923	9,689	1,555	3,357	7,482	38,396	24,641	63,038	3,442	1,954	29,957
Compressed and liquefied gases (S.I.C. 2896), total.....	428	156	10,363	44,092	6,315	13,143	25,288	111,254	56,422	167,674	19,840	8,983	66,833
New England.....	12	5	308	1,145	163	336	592	2,773	1,055	3,829	303	286	(D)
Massachusetts.....	8	5	259	976	131	273	482	2,230	973	3,204	275	236	1,455
Middle Atlantic.....	74	38	2,539	10,710	1,589	3,196	6,307	31,391	10,323	41,715	9,798	2,123	(D)
New York.....	18	8	470	2,003	301	642	1,206	5,364	1,786	7,150	(D)	386	(D)
New Jersey.....	20	12	916	3,811	564	1,055	2,121	9,554	3,375	12,930	(D)	580	5,026
Pennsylvania.....	36	18	1,152	4,895	723	1,498	2,978	16,472	5,162	21,635	877	1,157	10,170
East North Central.....	88	30	2,139	10,207	1,234	2,690	5,627	29,056	10,127	39,184	2,784	2,120	16,028
Ohio.....	29	15	748	3,649	379	836	1,638	8,990	2,925	11,915	1,240	839	5,814
Indiana.....	14	4	445	2,022	312	684	1,426	4,974	2,792	7,766	543	424	(D)
Illinois.....	19	6	520	2,430	298	628	1,423	10,144	2,214	12,358	461	356	(D)
Michigan.....	19	4	337	1,713	182	419	888	3,719	1,652	5,372	504	430	2,728
West North Central.....	37	11	689	2,921	409	838	1,575	6,768	2,500	9,269	919	648	4,755
Missouri.....	12	4	270	1,160	156	296	586	2,708	684	3,392	529	301	2,128
Kansas.....	8	3	176	767	124	253	467	1,796	728	2,524	(D)	74	(D)
South Atlantic.....	46	16	912	3,268	524	1,143	1,839	8,042	3,113	11,155	1,129	810	5,649
Maryland.....	11	6	330	1,125	189	395	619	1,815	1,354	3,170	(D)	301	1,937
North Carolina.....	5	3	136	419	75	157	277	1,228	232	1,459	70	(D)	(D)
Georgia.....	11	2	170	655	80	172	292	1,259	422	1,681	284	127	963
Florida.....	8	2	116	431	78	177	267	1,334	412	1,746	306	89	(D)
East South Central.....	28	9	867	3,636	638	1,331	2,614	5,694	20,574	26,269	1,277	482	3,799
Tennessee.....	14	5	205	730	125	263	446	2,107	718	2,825	274	220	(D)
West South Central.....	60	18	1,147	4,441	668	1,329	2,240	10,137	3,314	13,452	1,006	915	6,237
Louisiana.....	14	5	267	945	157	311	554	2,285	896	3,182	276	228	1,506
Oklahoma.....	7	4	143	510	91	156	276	1,083	265	1,348	(D)	(D)	(D)
Texas.....	36	9	719	2,878	407	810	1,320	6,572	2,083	8,655	685	533	3,995
Mountain.....	31	6	427	1,753	237	514	900	3,208	1,072	4,280	761	277	1,797
Pacific.....	52	23	1,334	6,007	849	1,762	3,589	14,179	4,339	18,519	1,860	1,322	8,954
Washington.....	12	4	217	944	115	266	498	2,157	557	2,715	91	176	1,119
Oregon.....	7	2	155	737	94	183	365	1,097	374	1,472	120	150	894
California.....	33	17	961	4,325	640	1,313	2,725	10,924	3,407	14,332	1,649	996	6,941
Insecticides and fungicides (S.I.C. 2897), total.....	265	78	6,510	25,218	4,276	8,224	13,211	62,099	112,514	174,613	2,988	4,060	25,018
New England.....	13	...	89	265	60	86	114	467	1,057	1,525	37	63	300
Middle Atlantic.....	29	8	974	4,119	529	1,074	1,989	4,718	12,847	17,565	177	1,588	8,192
New Jersey.....	13	5	303	1,268	218	444	776	2,597	5,792	8,389	71	844	5,027
North Central.....	45	9	557	1,965	368	623	893	4,286	9,248	13,534	281	377	2,047
South Atlantic.....	59	20	1,533	5,007	1,169	2,327	3,070	14,672	30,555	45,227	618	798	4,147
Maryland.....	8	5	475	1,552	357	667	1,033	5,639	8,970	14,609	153	158	(D)
Virginia.....	5	2	195	599	160	296	394	884	1,869	2,754	35	182	(D)
North Carolina.....	14	2	160	532	112	199	227	546	3,095	3,641	65	106	511
Georgia.....	7	3	212	602	164	346	379	2,661	6,037	8,699	86	(D)	(D)
Florida.....	16	7	411	1,447	296	651	795	4,266	9,333	13,599	146	240	1,869
East South Central.....	23	7	478	1,502	370	697	856	4,002	11,179	15,181	122	190	1,801
Alabama.....	9	2	117	321	93	183	199	819	4,618	5,437	8	28	(D)
Mississippi.....	6	3	164	399	142	233	249	1,178	3,197	4,376	49	...	...
West South Central.....	40	17	1,142	4,662	780	1,486	2,560	11,933	20,146	32,079	941	164	856
Louisiana.....	6	4	166	568	131	256	343	1,464	3,751	5,215	79	(D)	(D)
Texas.....	29	11	854	3,701	560	1,060	1,965	9,824	14,909	24,734	726	76	(D)

See footnotes at end of table.



## MISCELLANEOUS CHEMICAL PRODUCTS

28H-9

Table 2.—GENERAL STATISTICS BY REGIONS AND STATES: 1954 AND 1947—Continued  
(For explanation of column captions see Introduction)

Industry, region, and State <sup>1</sup>	1954											1947	
	Establishments, number		All employees		Production workers			Value added by manufacture	Cost of materials, etc.	Value of shipments	Capital expenditures, new	All employees, number	Value added by manufacture
	Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)	(\$1,000)		(\$1,000)
Insecticides and fungicides, etc.—Continued													
Mountain.....	14	2	691	3,272	412	819	1,669	12,049	9,266	21,315	(D)	185	1,915
Pacific.....	42	15	1,043	4,424	585	1,108	2,057	9,970	18,214	28,185	(D)	695	5,760
California.....	34	14	939	4,042	536	1,039	1,942	9,222	17,496	26,718	523	573	4,905
Salt (S.I.C. 2898), total.....	38	23	4,017	16,379	3,346	7,299	12,694	48,936	22,993	71,933	4,328	4,809	25,197
Middle Atlantic.....	7	4	707	2,743	594	1,385	2,103	8,734	4,665	13,398	938	917	4,060
New York.....	7	4	707	2,743	594	1,385	2,103	8,734	4,665	13,398	938	917	4,060
East North Central.....	8	7	1,678	6,967	1,426	3,015	5,689	19,943	10,174	30,118	975	1,971	9,717
West North Central.....	3	3	415	1,508	369	777	1,281	5,863	2,234	8,098	491	627	3,592
Kansas.....	3	3	415	1,508	369	777	1,281	5,863	2,234	8,098	491	(D)	(D)
South.....	7	4	421	1,376	370	829	1,120	4,097	2,057	6,155	(D)	1,294	7,828
West.....	13	5	794	3,783	585	1,292	2,499	10,297	3,866	14,164	(D)		
California.....	8	3	628	3,076	448	1,010	1,991	8,932	2,818	11,750	(D)		
Chemical products, n.e.c. (S.I.C. 2899), total.....	1,204	192	21,415	95,026	13,346	25,443	45,473	266,627	264,586	531,213	12,586	17,629	159,514
New England.....	74	11	1,877	7,542	1,334	2,531	4,539	14,613	15,686	30,299	294	2,739	16,084
Massachusetts.....	38	8	685	2,585	369	677	957	5,729	4,418	10,147	91	1,991	11,984
Connecticut.....	25	3	1,112	4,673	910	1,736	3,439	8,381	10,874	19,256	179	476	2,828
Middle Atlantic.....	346	63	6,384	27,007	3,932	7,391	13,239	78,210	69,646	147,857	2,035	4,969	47,789
New York.....	166	21	2,381	9,369	1,371	2,498	4,327	29,635	23,301	52,936	385	2,571	28,748
New Jersey.....	89	24	1,485	6,414	978	1,955	3,478	22,961	22,933	45,895	(D)	1,116	11,142
Pennsylvania.....	91	18	2,517	11,223	1,583	2,937	5,433	25,614	23,411	49,025	(D)	1,282	7,899
East North Central.....	339	59	7,223	34,675	4,257	8,262	14,993	85,979	85,629	171,609	5,268	6,049	64,002
Ohio.....	113	23	2,765	14,124	1,419	2,826	5,394	30,483	28,648	59,131	2,930	1,602	19,153
Indiana.....	32	6	1,041	3,939	739	1,411	2,538	8,614	12,617	21,232	492	174	1,184
Illinois.....	118	19	2,512	12,303	1,523	2,895	5,097	32,470	32,254	64,624	1,236	2,713	25,921
Michigan.....	48	5	591	2,711	392	799	1,363	10,164	8,278	18,443	295	1,105	11,782
Wisconsin.....	28	6	313	1,596	183	330	590	4,246	3,931	8,178	314	455	5,962
West North Central.....	88	13	1,573	7,247	976	1,955	3,775	24,115	19,256	43,372	1,336	1,134	7,573
Minnesota.....	19	2	637	3,254	433	824	1,933	12,069	7,068	19,138	(D)	84	307
Missouri.....	47	10	808	3,640	445	966	1,612	11,271	11,506	22,778	(D)	692	5,821
South Atlantic.....	85	12	1,298	5,741	835	1,600	2,327	16,307	19,524	35,831	819	969	9,296
Maryland.....	15	3	347	1,842	204	443	717	3,731	5,723	9,454	312	359	3,494
North Carolina.....	13	1	283	1,047	168	341	327	1,745	1,322	3,068	78	204	1,402
South Carolina.....	5	2	108	570	55	86	143	1,664	1,677	3,341	41	38	(D)
Georgia.....	16	5	391	1,690	293	506	822	7,984	9,476	17,460	291	288	3,732
Florida.....	28	1	110	298	80	157	215	661	468	1,130	80	33	(D)
East South Central.....	37	7	498	1,872	322	654	914	6,626	7,509	14,135	972	243	1,182
Tennessee.....	16	4	249	919	184	389	576	3,369	4,528	7,898	243	166	684
West South Central.....	72	10	891	3,855	675	1,307	2,461	21,567	28,470	50,037	1,156	426	3,538
Texas.....	45	8	603	2,740	439	845	1,686	18,094	17,533	35,628	571	326	3,243

See footnotes at end of table.

## MANUFACTURES--INDUSTRY STATISTICS

Table 2.—GENERAL STATISTICS BY REGIONS AND STATES: 1954 AND 1947—Continued

(For explanation of column captions see Introduction)

Industry, region, and State <sup>1</sup>	1954										1947		
	Establishments, number		All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments (\$1,000)	Capital expenditures, new (\$1,000)	All employees, number	Value added by manufacture (\$1,000)
	Total	20 or more employees	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)						
Chemical products, etc.—Continued													
Mountain.....	15	...	53	186	35	61	96	438	463	901	13	82	400
Pacific.....	148	17	1,615	6,899	976	1,679	3,126	18,769	18,400	37,170	689	1,015	9,650
Oregon.....	8	2	117	485	75	138	253	1,633	3,201	4,834	109	19	(D)
California.....	134	15	1,482	6,358	889	1,519	2,836	17,022	15,090	32,113	579	974	8,839

Note: Detailed figures may not add to the totals because of independent rounding.

<sup>1</sup> Withheld to avoid disclosing figures for individual companies.

General statistics for some producing States are not shown separately in the table (see INTRODUCTION "Confidentiality of Data for Individual Companies"). Such States are shown below with the number of establishments in each State for 1954 and, in parentheses, the number of employees or the employment-size range for that State for 1954:

S.I.C. 2891, Printing Ink: New England—Massachusetts, 13 (20-99); Connecticut, 2 (1-19); East North Central—Indiana, 3 (20-99); Wisconsin, 4 (20-99); West North Central—Minnesota, 4 (20-99); Iowa, 1 (1-19); South Atlantic—Maryland, 3 (20-99); District of Columbia, 1 (20-99); Virginia, 3 (20-99); North Carolina, 2 (1-19); Georgia, 4 (20-99); Florida, 5 (20-99); East South Central—Kentucky, 1 (1-19); Tennessee, 3 (20-99); Alabama, 1 (1-19); West South Central—Louisiana, 6 (20-99); Texas, 8 (20-99); West—Colorado, 2 (20-99); Utah, 1 (1-19); Washington, 2 (20-99); Oregon, 2 (20-99).

S.I.C. 2892, Essential Oils: All Other States—New York, 17 (100-249); Michigan, 1 (20-99); North Carolina, 1 (1-19); Georgia, 1 (1-19); Florida, 7 (20-99); Kentucky, 2 (20-99); Washington, 1 (20-99); California, 1 (1-19).

S.I.C. 2893, Toilet Preparations: New England—Maine, 1 (1-19); New Hampshire, 2 (1-19); Massachusetts, 12 (250-499); Rhode Island, 1 (1-19); East North Central—Ohio, 20 (1-459); Indiana, 16 (100-249); Wisconsin, 12 (250-499); West North Central—Iowa, 6 (20-99); South Dakota, 1 (1-19); Nebraska, 2 (1-19); Kansas, 1 (1-19); South Atlantic—Maryland, 4 (250-499); District of Columbia, 1 (1-19); Virginia, 4 (100-249); North Carolina, 6 (20-99); South Carolina, 1 (1-19); Georgia, 8 (20-99); Florida, 9 (20-99); East South Central—Kentucky, 5 (1-19); Alabama, 4 (1-19); Mississippi, 1 (1-19); West South Central—Louisiana, 5 (20-99); Oklahoma, 3 (1-19); Mountain—Colorado, 2 (20-99); Arizona, 1 (1-19); Utah, 4 (1-19); Pacific—Washington, 4 (1-19); Oregon, 3 (1-19).

S.I.C. 2894, Glue and Gelatin: New England—Vermont, 1 (1-19); Connecticut, 4 (1-19); East North Central—Indiana, 3 (20-99); Michigan, 5 (100-249); Wisconsin, 6 (250-499); West North Central—Minnesota, 3 (20-99); Iowa, 2 (1-19); Nebraska, 1 (20-99); South—Delaware, 1 (1-19); Maryland, 3 (20-99); Virginia, 3 (1-19); North Carolina, 1 (1-19); Georgia, 3 (20-99); Alabama, 1 (1-19); Mississippi, 1 (1-19); Louisiana, 1 (1-19); Texas, 9 (20-99); Pacific—Washington, 2 (20-99); Oregon, 3 (20-99); California, 18 (250-499).

S.I.C. 2895, Carbon Black: All Other States—Pennsylvania, 2 (20-99); Kansas, 2 (100-249); Arkansas, 1 (20-99); Oklahoma, 2 (20-99); New Mexico, 4 (100-249); California, 1 (1-19).

S.I.C. 2896, Compressed and Liquefied Gases: New England—Maine 2 (1-19); Rhode Island, 1 (1-19); Connecticut, 1 (1-19); East North Central—Wisconsin, 7 (20-99); West North Central—Minnesota, 6 (20-99); Iowa, 5 (20-99); North Dakota, 1 (1-19); South Dakota, 2 (1-19); Nebraska, 3 (20-99); South Atlantic—Delaware, 1 (1-19); Virginia, 4 (20-99); West Virginia, 6 (20-99); East South Central—Kentucky, 3 (500-999); Alabama, 9 (100-249); Mississippi, 2 (1-19); West South Central—Arkansas, 3 (1-19); Mountain—Montana, 3 (20-99); Idaho, 1 (1-19); Wyoming, 2 (1-19); Colorado, 11 (100-249); New Mexico, 6 (20-99); Arizona, 2 (20-99); Utah, 5 (20-99); Nevada, 1 (1-19).

S.I.C. 2897, Insecticides and Fungicides: New England—Maine, 3 (20-99); Vermont, 1 (1-19); Massachusetts, 6 (20-99); Connecticut, 3 (1-19); Middle Atlantic—New York, 12 (250-499); Pennsylvania, 4 (100-249); North Central—Ohio, 4 (20-99); Indiana, 1 (1-19); Illinois, 7 (20-99); Michigan, 7 (20-99); Wisconsin, 5 (20-99); Iowa, 3 (20-99); North Dakota, 2 (1-19); Nebraska, 4 (20-99); Kansas, 3 (20-99); South Atlantic—West Virginia, 4 (20-99); South Carolina, 5 (20-99); East South Central—Kentucky, 5 (100-249); Tennessee, 3 (20-99); West South Central—Arkansas, 3 (20-99); Oklahoma, 2 (20-99); Mountain—Colorado, 7 (500-999); Arizona, 7 (100-249); Pacific—Washington, 5 (20-99); Oregon, 3 (20-99).

S.I.C. 2898, Salt: East North Central—Ohio, 4 (500-999); Michigan, 4 (1-114); South—West Virginia, 1 (20-99); Louisiana, 1 (20-99); Oklahoma, 2 (1-19); Texas, 3 (250-499); West—Utah, 4 (100-249); Washington, 1 (1-19).

S.I.C. 2899, Chemical Products, N.E.C.: New England—Maine, 3 (20-99); New Hampshire, 1 (1-19); Rhode Island, 7 (20-99); West North Central—Iowa, 14 (20-99); South Dakota, 1 (1-19); Nebraska, 3 (1-19); Kansas, 4 (20-99); South Atlantic—Delaware, 1 (1-19); District of Columbia, 2 (1-19); Virginia, 3 (20-99); West Virginia, 2 (1-19); East South Central—Kentucky, 7 (20-99); Alabama, 8 (20-99); Mississippi, 6 (20-99); West South Central—Arkansas, 2 (1-19); Louisiana, 12 (100-249); Oklahoma, 13 (20-99); Mountain—Colorado, 10 (20-99); New Mexico, 2 (1-19); Arizona, 2 (20-99); Utah, 1 (1-19); Pacific—Washington, 6 (1-19).

## MISCELLANEOUS CHEMICAL PRODUCTS

28H-11

Table 3.—DETAILED STATISTICS FOR THE UNITED STATES: 1954

(For explanation of line captions see Introduction)

Item	Printing ink (S.I.C. 2891) all estab- lishments	Essential oils (S.I.C. 2892)		Toilet preparations (S.I.C. 2893) all estab- lishments	Glue and gelatin (S.I.C. 2894)	
		All estab- lishments	Establish- ments with 90% or more primary prod- uct special- ization		All estab- lishments	Establish- ments with 90% or more primary prod- uct special- ization
Primary product specialization ratio <sup>1</sup> .....	90	83	xxx	91	87	xxx
Coverage ratio <sup>2</sup> .....	95	67	xxx	77	67	xxx
Number of establishments, total.....	271	37	27	710	230	174
With 1-19 employees.....	184	27	22	543	161	130
With 20-99 employees.....	71	10	5	110	52	38
With 100 employees and over.....	16	...	...	57	17	6
All employees:						
Number (average for year).....	7,609	547	264	24,809	6,753	3,575
Payroll.....\$1,000..	35,713	2,846	1,291	94,726	29,192	15,300
Production workers:						
Number (average for year).....	5,268	330	167	16,185	4,814	2,394
Man-hours.....1,000..	10,699	636	312	31,051	9,425	4,407
Wages.....\$1,000..	20,746	1,215	611	47,728	17,683	8,080
Value added by manufacture.....do....	87,289	5,484	2,804	419,666	64,771	35,385
Cost of materials, etc.....do....	93,349	15,348	9,516	208,986	74,580	47,299
Value of shipments.....do....	180,638	20,832	12,320	628,651	139,352	82,684
Value added by resales.....do....	714	195	180	15,567	2,065	915
Cost of products bought and resold.....do....	2,200	1,826	1,625	22,863	8,928	4,904
Sales of products bought and resold.....do....	2,914	2,021	1,806	38,431	10,993	5,820
Total inventories, beginning of year.....do....	21,419	4,780	2,353	90,076	28,524	12,871
Total inventories, end of year.....do....	21,717	5,272	2,764	86,330	29,190	13,030
Capital expenditures, new.....do....	6,336	( <sup>3</sup> )	( <sup>3</sup> )	7,537	2,945	1,317
Number of employees for selected months:						
March.....	7,570	539	256	24,230	6,827	3,562
May.....	7,634	550	265	24,678	6,767	3,565
August.....	7,622	552	272	24,975	6,696	3,575
November.....	7,609	545	264	25,354	6,723	3,598
Cost of materials, fuel, electricity and contract work, total.....\$1,000..	93,349	15,348	9,516	208,986	74,580	47,299
Materials, parts, containers, and supplies consumed.....do....	91,716	15,117	9,364	200,527	69,765	45,143
Fuels consumed, total.....do....	566	130	88	1,278	3,412	1,278
Bituminous coal and anthracite:						
Quantity.....1,000 short tons..	4	4	(NA)	33	136	(NA)
Value.....\$1,000..	43	50	(NA)	299	1,309	(NA)
Coke:						
Quantity.....1,000 short tons..	( <sup>4</sup> )	...	...	( <sup>4</sup> )	...	...
Value.....\$1,000..	( <sup>5</sup> )	...	...	9	...	...
Fuel oil:						
Quantity.....1,000 barrels..	128	23	(NA)	213	657	(NA)
Value.....\$1,000..	405	67	(NA)	646	1,707	(NA)
Gas:						
Quantity.....million cubic feet..	246	4	(NA)	558	1,166	(NA)
Value.....\$1,000..	107	( <sup>5</sup> )	(NA)	230	360	(NA)
Other fuels:						
Value.....do....	7	12	(NA)	94	36	(NA)
Electric energy:						
Purchased:						
Quantity.....million kwh..	60	5	3	53	49	35
Cost.....\$1,000..	1,021	90	53	966	763	536
Generated.....million kwh..	...	( <sup>6</sup> )	...	3	43	4
Cost of contract work.....\$1,000..	46	11	11	6,215	640	342
Manufacturers' inventories:						
Beginning of year, total.....do....	21,419	4,780	2,353	90,076	28,524	12,871
Finished products.....do....	8,721	2,118	890	38,239	14,080	5,343
Work-in-process.....do....	953	666	561	5,641	3,462	741
Materials, supplies, fuel, etc.....do....	11,745	1,996	902	46,196	10,982	6,787
End of year, total.....do....	21,717	5,272	2,764	86,330	29,190	13,030
Finished products.....do....	8,972	2,110	885	35,827	15,438	5,292
Work-in-process.....do....	1,042	695	586	5,295	3,067	731
Materials, supplies, fuel, etc.....do....	11,703	2,467	1,293	45,208	10,685	7,007
Expenditures for plant and equipment, total.....do....	6,393	( <sup>3</sup> )	( <sup>3</sup> )	7,827	3,028	1,567
Capital expenditures, new.....do....	6,336	( <sup>3</sup> )	( <sup>3</sup> )	7,537	2,945	1,317
New structures and additions to plant.....do....	1,385	( <sup>3</sup> )	( <sup>3</sup> )	2,141	583	( <sup>3</sup> )
New machinery and equipment.....do....	4,951	( <sup>3</sup> )	( <sup>3</sup> )	5,396	2,362	965
Expenditures for used plant and equipment.....do....	( <sup>3</sup> )	...	...	( <sup>3</sup> )	( <sup>3</sup> )	( <sup>3</sup> )
Horsepower rating of power equipment at end of 1954:						
Horsepower of prime movers and electric motors driven by purchased energy, total.....1,000 hp..	54	1	...	32	51	19
Engines, etc., driving electric generators.....do....	...	...	...	3	21	2
Engines, etc., not driving electric generators.....do....	( <sup>7</sup> )	...	...	1	3	2
Electric motors driven by purchased energy.....do....	54	1	( <sup>7</sup> )	28	27	15
Electric motors driven by energy generated at the establishment.....do....	...	...	...	1	20	2

See footnotes at end of table.



## MANUFACTURES--INDUSTRY STATISTICS

Table 3.—DETAILED STATISTICS FOR THE UNITED STATES: 1954—Continued

Item	Carbon black (S.I.C. 2895) all estab- lishments	Compressed and liquefied gases (S.I.C. 2896) all estab- lishments	Insecticides and fungicides (S.I.C. 2897)		Salt (S.I.C. 2898) all estab- lishments	Chemical products, n.e.c. (S.I.C. 2899)	
			All estab- lish- ments	Estab- lish- ments with 90% or more primary prod- uct special- ization		All estab- lish- ments	Estab- lish- ments with 90% or more primary prod- uct special- ization
Primary product specialization ratio <sup>1</sup> .....	100	99	84	xxx	96	81	xxx
Coverage ratio <sup>2</sup> .....	98	84	82	xxx	97	70	xxx
Number of establishments, total.....	47	428	265	202	38	1,204	933
With 1-19 employees.....	10	272	187	145	15	1,012	827
With 20-99 employees.....	26	144	67	53	6	153	89
With 100 employees and over.....	11	12	11	4	17	39	17
All employees:							
Number (average for year).....	3,410	10,363	6,510	3,933	4,017	21,415	11,238
Payroll.....\$1,000..	16,466	44,092	25,218	14,399	16,379	95,026	50,699
Production workers:							
Number (average for year).....	2,801	6,315	4,276	2,592	3,346	13,346	6,639
Man-hours.....1,000..	6,112	13,143	8,224	5,000	7,299	25,443	12,386
Wages.....\$1,000..	13,029	25,288	13,211	7,264	12,694	45,473	22,189
Value added by manufacture.....	62,424	111,254	62,099	30,293	48,936	266,627	140,308
Cost of materials, etc.....do....	39,191	56,422	112,514	75,310	22,998	264,586	138,634
Value of shipments.....do....	101,616	167,674	174,613	105,603	71,933	531,213	278,942
Value added by resales.....do....	17	10,863	9,742	5,413	108	10,853	4,027
Cost of products bought and resold.....do....	269	22,231	36,170	21,668	939	34,036	12,697
Sales of products bought and resold.....do....	286	33,095	45,912	27,081	1,047	44,889	16,724
Total inventories, beginning of year.....do....	18,998	10,304	51,117	28,027	6,908	73,432	35,526
Total inventories, end of year.....do....	16,873	10,021	50,645	29,727	6,447	75,917	36,704
Capital expenditures, new.....do....	10,597	19,840	2,988	1,936	4,328	12,586	8,196
Number of employees for selected months:							
March.....	3,387	10,494	6,377	3,660	3,902	21,604	11,423
May.....	3,348	10,462	7,399	4,651	3,903	21,515	11,112
August.....	3,421	10,300	6,872	4,174	4,039	21,265	11,265
November.....	3,482	10,198	5,390	3,245	4,225	21,274	11,152
Cost of materials, fuel, electricity and contract work, total.....\$1,000..	39,191	56,422	112,514	75,310	22,998	264,586	138,634
Materials, parts, containers, and supplies consumed.....do....	36,788	44,161	109,986	74,070	18,683	254,949	133,090
Fuels consumed, total.....do....	679	2,807	1,392	568	3,689	3,856	1,835
Bituminous coal and anthracite:							
Quantity.....1,000 short tons..	...	261	39	(NA)	432	132	(NA)
Value.....\$1,000..	...	1,634	362	(NA)	2,867	917	(NA)
Coke:							
Quantity.....1,000 short tons..	...	5	1	(NA)	...	(4)	(NA)
Value.....\$1,000..	...	101	20	(NA)	...	(5)	(NA)
Fuel oil:							
Quantity.....1,000 barrels..	10	158	89	(NA)	20	447	(NA)
Value.....\$1,000..	25	619	351	(NA)	85	1,485	(NA)
Gas:							
Quantity.....million cubic feet..	6,208	1,726	3,511	(NA)	3,789	3,655	(NA)
Value.....\$1,000..	654	371	631	(NA)	708	1,193	(NA)
Other fuels:							
Value.....do....	...	82	28	(NA)	29	259	(NA)
Electric energy:							
Purchased:							
Quantity.....million kwh..	197	1,436	73	41	86	195	92
Cost.....\$1,000..	1,717	9,442	1,012	622	352	2,990	1,286
Generated.....million kwh..	18	190	57	...	90	(6)	(6)
Sold:							
Quantity.....do....	...	(6)	33	...	3	...	...
Value.....\$1,000..	...	3	276	...	39	...	...
Cost of contract work.....do....	7	12	124	50	274	3,191	2,423
Manufacturers' inventories:							
Beginning of year, total.....do....	18,998	10,304	51,117	28,027	6,908	73,432	35,526
Finished products.....do....	16,956	6,518	31,510	18,360	937	34,912	16,480
Work-in-process.....do....	(3)	(3)	2,349	633	732	6,508	1,639
Materials, supplies, fuel, etc.....do....	2,010	3,739	17,258	9,034	5,239	32,011	17,407
End of year, total.....do....	16,873	10,021	50,645	29,727	6,447	75,917	36,704
Finished products.....do....	14,835	6,203	30,819	20,000	940	35,003	16,415
Work-in-process.....do....	(3)	(3)	2,482	616	934	7,307	1,934
Materials, supplies, fuel, etc.....do....	2,009	3,733	17,344	9,111	4,573	33,606	18,535
Expenditures for plant and equipment, total.....do....	11,292	20,242	3,060	1,991	4,328	12,901	8,468
Capital expenditures, new.....do....	10,597	19,840	2,988	1,936	4,328	12,586	8,196
New structures and additions to plant.....do....	2,760	2,431	563	(3)	1,248	4,081	3,206
New machinery and equipment.....do....	7,837	17,409	2,425	1,516	3,080	8,505	4,990
Expenditures for used plant and equipment.....do....	695	(3)	(3)	(3)	...	(3)	(3)
Horsepower rating of power equipment at end of 1954:							
Horsepower of prime movers and electric motors driven by purchased energy, total.....1,000 hp..	57	371	80	26	140	92	41
Engines, etc., driving electric generators.....do....	7	63	30	(7)	32	3	2
Engines, etc., not driving electric generators.....do....	4	89	4	1	91	5	2
Electric motors driven by purchased energy.....do....	46	219	46	25	17	84	37
Electric motors driven by energy generated at the establishment.....do....	6	48	15	(7)	33	(7)	(7)

Note: Detailed figures may not add to the totals because of independent rounding. xxx Not applicable. <sup>1</sup>The specialization ratio compares the given industry's shipments of its primary products to its primary products to its total shipments of all products. (The primary products are listed in Tables 5B and 6A.) Columns containing totals for establishments with 90% or more primary product specialization are shown only for those industries having a primary product specialization of less than 90%. <sup>2</sup>The coverage ratio measures the extent to which the total shipments of products primary to the given industry are shipped by establishments classified in that industry. <sup>3</sup>Less than \$500 thousand. <sup>4</sup>Less than 500 tons. <sup>5</sup>Less than \$5 thousand. <sup>6</sup>Less than 500 thousand kwh. <sup>7</sup>Less than 500 hp. NA Not available.

## MISCELLANEOUS CHEMICAL PRODUCTS

28H-13

Table 4.—SELECTED STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY EMPLOYMENT SIZE, FOR THE UNITED STATES: 1954

(Value figures in thousands of dollars. For explanation of line captions see Introduction. Data which cannot be shown without disclosing information for individual companies have been combined with figures for other size classes. A (D) appears in the column where the figure has been omitted and the combined figure is underlined and shown in the size-class to the left)

Ind. code	Industry and item	Total, all estab- lish- ments	Establishments with an average of—									
			1-4 em- ployees	5-9 em- ployees	10-19 em- ployees	20-49 em- ployees	50-99 em- ployees	100-249 employees	250-499 employees	500-999 employees	1,000- 2,499 employees	2,500 employees and over
2891	Printing ink:											
	Number of establishments...	271	63	71	50	46	25	11	5	...	...	...
	Number of employees.....	7,609	177	502	687	1,446	1,714	<u>3,080</u>	(D)	...	...	...
	Value added by manufacture.	87,289	2,006	4,568	7,098	15,772	18,058	<u>39,783</u>	(D)	...	...	...
2892	Essential oils:											
	Number of establishments...	37	21	4	2	6	4	...	...	...	...	...
	Number of employees.....	547	60	<u>49</u>	(D)	175	263	...	...	...	...	...
	Value added by manufacture.	5,484	632	<u>478</u>	(D)	1,960	2,412	...	...	...	...	...
2893	Toilet preparations:											
	Number of establishments...	710	366	104	73	70	40	33	16	7	1	...
	Number of employees.....	24,809	817	745	996	2,261	2,780	5,090	5,804	<u>6,313</u>	(D)	...
	Value added by manufacture.	419,666	5,743	6,899	7,398	24,181	42,776	68,429	163,785	<u>100,453</u>	(D)	...
2894	Glue and gelatin:											
	Number of establishments...	230	82	47	32	33	19	13	4	...	...	...
	Number of employees.....	6,753	212	328	442	1,048	1,217	2,117	1,387	...	...	...
	Value added by manufacture.	64,771	1,637	3,155	3,453	9,310	10,531	19,038	17,625	...	...	...
2895	Carbon black:											
	Number of establishments...	47	2	2	6	14	12	10	1	...	...	...
	Number of employees.....	3,410	119	(D)	(D)	513	895	<u>1,882</u>	(D)	...	...	...
	Value added by manufacture.	62,424	<u>2,043</u>	(D)	(D)	11,405	16,082	<u>32,892</u>	(D)	...	...	...
2896	Compressed & liquefied gases:											
	Number of establishments...	428	67	94	111	107	37	11	1	...	...	...
	Number of employees.....	10,363	212	696	1,649	3,347	2,430	<u>2,026</u>	(D)	...	...	...
	Value added by manufacture.	111,254	4,874	8,863	20,505	37,012	24,501	<u>15,497</u>	(D)	...	...	...
2897	Insecticides and fungicides:											
	Number of establishments...	265	90	46	51	47	20	9	1	1	...	...
	Number of employees.....	6,510	231	338	734	1,512	1,364	<u>2,328</u>	(D)	(D)	...	...
	Value added by manufacture.	62,099	1,745	3,307	5,551	13,675	9,725	<u>28,094</u>	(D)	(D)	...	...
2898	Salt:											
	Number of establishments...	38	8	4	3	5	1	12	5	...	...	...
	Number of employees.....	4,017	19	28	40	229	(D)	1,954	1,744	...	...	...
	Value added by manufacture.	48,936	232	252	136	<u>1,429</u>	(D)	25,784	21,101	...	...	...
2899	Chemical products, n.e.c.:											
	Number of establishments...	1,204	638	214	160	110	43	27	9	3	...	...
	Number of employees.....	21,415	1,547	1,485	2,297	3,529	2,991	4,207	3,240	2,116	...	...
	Value added by manufacture.	266,627	13,093	14,872	21,917	46,080	48,550	55,675	49,809	16,629	...	...

Note: Detailed figures may not add to the totals because of independent rounding.

## MANUFACTURES--INDUSTRY STATISTICS

Table 5A.--INDUSTRY-PRODUCT ANALYSIS--SUMMARY OF INDUSTRY AND PRIMARY PRODUCT SHIPMENTS, SPECIALIZATION RATIOS AND COVERAGE RATIOS FOR THE UNITED STATES: 1954 AND 1947

Industry code	Industry and census year	Value of shipments					Value of primary products shipped			
		Total	Primary products	Secondary products	Miscellaneous receipts	Primary product specialization ratio <sup>1</sup>	Total (made in all industries)	Made in this industry	Made in other industries	Coverage ratio <sup>2</sup>
		(\$1,000) (A)	(\$1,000) (B)	(\$1,000) (C)	(\$1,000) (D)	Col. B Col. B+C (Percent) (E)	(\$1,000) (F)	(\$1,000) (G)	(\$1,000) (H)	Col. G Col. F (Percent) (I)
2891	Printing ink.....1954..	180,638	163,001	17,599	38	90	172,434	163,001	9,433	95
	1947..	115,708	106,727	8,832	149	92	109,402	106,727	2,675	98
2892	Essential oils.....1954..	20,832	17,282	3,433	117	83	25,977	17,282	8,695	67
	1947..	35,739	25,172	10,396	171	71	27,314	25,172	2,142	92
2893	Toilet preparations.....1954..	628,651	569,698	53,555	5,398	91	744,481	569,698	174,783	77
	1947..	381,371	317,277	59,040	5,054	84	343,703	317,277	121,426	72
2894	Glue and gelatin.....1954..	139,352	121,009	17,318	1,025	87	180,224	121,009	59,215	67
	1947..	145,157	118,201	25,944	1,012	82	155,832	118,201	37,631	76
2895	Carbon black.....1954..	101,616	101,000	476	140	100	102,833	101,000	1,833	98
	1947..	73,592	73,349	243	...	100	75,646	73,349	2,297	97
2896	Compressed and liquefied gases.....1954..	167,674	164,773	2,106	795	99	195,390	164,773	30,617	84
	1947..	93,489	91,819	261	1,409	100	109,848	91,819	18,029	84
2897	Insecticides and fungicides..1954..	174,613	145,214	27,039	2,360	84	177,956	145,214	32,742	82
	1947..	67,010	56,452	8,390	2,168	87	83,356	56,452	26,904	68
2898	Salt.....1954..	71,933	69,400	2,522	11	96	71,636	69,400	2,236	97
	1947..	46,056	45,689	91	276	100	46,570	45,689	881	98
2899	Chemical products, n.e.c.....1954..	531,213	418,976	99,615	12,622	81	596,772	418,976	177,796	70
	1947..	318,063	231,387	78,024	8,652	75	361,732	231,387	130,345	64

<sup>1</sup>The specialization ratio compares the given industry's shipments of the primary products to its total shipments of all products. (The primary products are listed in Tables 5B and 6A; the first 4-digits of the product code represent the industry code to which the product is primary, except for Industry 2893 (See text).)

<sup>2</sup>The coverage ratio measures the extent to which the total shipments of products primary to the given industry are shipped by establishments classified in that industry.

<sup>3</sup>Excludes \$26,841 thousand for product class 28413, Specialty Soaps, which is primary to Industry 2893 as well as to Industry 2841.



## MISCELLANEOUS CHEMICAL PRODUCTS

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Table 5B.--INDUSTRY-PRODUCT ANALYSIS--SHIPMENTS BY PRODUCT CLASS AND INDUSTRY, FOR THE UNITED STATES: 1954

(In thousands of dollars. The first column shows the total value of shipments of the specified industry divided among: (a) products classified in the industry (primary products), (b) products classified in other industries (secondary products) and (c) miscellaneous receipts. The value of shipments of the primary products of the specified industry reported by establishments not classified in that industry is shown under the caption "Other Industries." Industries accounting for significant amounts of the primary products listed are shown in separate columns provided that the figures for individual companies are not thereby disclosed. The last column shows the total value of shipments of the primary products of the industry by all manufacturing industries)

Prod. class code	Printing ink industry	Printing ink (S.I.C. 2891)	Other industries	All industries		
	Total shipments and receipts of the industry.....	180,638	xxx	xxx		
28910	Printing ink.....	163,001	9,433	172,434		
	Secondary products.....	17,599	xxx	xxx		
28512	Industrial product finishes, and special coatings.....	9,990	xxx	xxx		
	Other secondary products.....	7,609	xxx	xxx		
	Miscellaneous receipts.....	38	xxx	xxx		
Prod. class code	Essential oils industry	Essential oils (S.I.C. 2892)	Frozen fruits and vegetables (S.I.C. 2037)	Other industries	All industries	
	Total shipments and receipts of the industry.....	20,832	xxx	xxx	xxx	
28920	Essential oils.....	17,282	6,602	2,093	25,977	
	Secondary products.....	3,433	xxx	xxx	xxx	
	Miscellaneous receipts.....	117	xxx	xxx	xxx	
Prod. class code	Toilet preparations industry	Toilet preparations (S.I.C. 2893)	Pharmaceutical preparations (S.I.C. 2834)	Soap and glycerin (S.I.C. 2841)	Other industries	All industries
	Total shipments and receipts of the industry.....	628,651	xxx	xxx	xxx	xxx
	Primary products.....	569,698	29,203	121,128	24,452	744,481
28931	Perfumes, toilet waters and colognes.....	64,068	(D)	...	17,542	77,041
28932	Hair preparations, including shampoos.....	179,622	(D)	(D)	1,840	220,422
28933	Dentifrices, including mouthwashes and gargles.....	69,492	(D)	(D)	833	130,789
28934	Other cosmetics and toilet preparations.....	237,263	(D)	(D)	5,274	266,451
28930	Toilet preparations not specified by kind.....	6,664	(D)	...	60	6,829
28413	Specialty soaps.....	12,589	254	21,203	28,903	42,949
	Secondary products.....	53,555	xxx	xxx	xxx	xxx
28344	Laxatives, stomach, and ulcer products, human use.....	10,587	xxx	xxx	xxx	xxx
28346	Other pharmaceutical preparations for human use.....	9,881	xxx	xxx	xxx	xxx
28411	Soaps, except specialty, packaged.....	13,981	xxx	xxx	xxx	xxx
28993	Chemical specialties.....	4,933	xxx	xxx	xxx	xxx
39910	Beauty and barber shop furniture and equipment.....	2,485	xxx	xxx	xxx	xxx
	Other secondary products.....	11,688	xxx	xxx	xxx	xxx
	Miscellaneous receipts.....	5,398	xxx	xxx	xxx	xxx
	Contract and commission work.....	5,213	xxx	xxx	xxx	xxx
	Other.....	185	xxx	xxx	xxx	xxx
Prod. class code	Glue and gelatin industry	Glue and gelatin (S.I.C. 2894)	Other industries	All industries		
	Total shipments and receipts of the industry.....	139,352	xxx	xxx		
	Primary products.....	121,009	459,215	180,224		
28941	Glues and adhesives.....	90,024	46,059	136,083		
28942	Gelatin except ready-to-mix desserts.....	30,880	13,046	43,926		
28940	Glue and gelatin, not specified by kind.....	105	110	215		
	Secondary products.....	17,318	xxx	xxx		
28861	Grease and tallow.....	4,010	xxx	xxx		
28862	Feed and fertilizer byproducts.....	2,437	xxx	xxx		
	Other secondary products.....	10,871	xxx	xxx		
	Miscellaneous receipts.....	1,025	xxx	xxx		
Prod. class code	Carbon black industry	Carbon black (S.I.C. 2895)	Other industries	All industries		
	Total shipments and receipts of the industry.....	101,616	xxx	xxx		
	Primary products.....	101,000	1,833	102,833		
28951	Carbon black (channel and furnace process).....	99,278	168	99,446		
28953	Other blacks, except activated carbon and charcoal.....	1,722	1,665	3,387		
	Secondary products.....	476	xxx	xxx		
	Miscellaneous receipts.....	140	xxx	xxx		

See footnotes at end of table.

## MANUFACTURES—INDUSTRY STATISTICS

Table 5B.—INDUSTRY-PRODUCT ANALYSIS—SHIPMENTS BY PRODUCT CLASS AND INDUSTRY, FOR THE UNITED STATES: 1954—Continued

Prod. class code	Compressed and liquefied gases industry	Compressed and liquefied gases (S.I.C. 2896)	Other industries	All industries			
	Total shipments and receipts of the industry.....	167,674	xxx	xxx			
	Primary products.....	164,773	30,617	195,390			
28961	Elemental gases.....	74,270	5,446	79,716			
28962	Acetylene.....	52,208	12,342	64,550			
28963	Carbon dioxide.....	35,632	7,813	43,445			
28964	Other compressed and liquefied gases.....	2,633	5,016	7,649			
28960	Gases, not specified by kind.....	30	...	30			
	Secondary products.....	2,106	xxx	xxx			
	Miscellaneous receipts.....	795	xxx	xxx			
Prod. class code	Insecticides and fungicides industry	Insecticides and fungicides (S.I.C. 2897)	Inorganic chemicals, n.e.c. (S.I.C. 2819)	Chemical products, n.e.c. (S.I.C. 2899)	Other industries	All industries	
	Total shipments and receipts of the industry.....	174,613	xxx	xxx	xxx	xxx	
28971	Insecticides and fungicides for agricultural use.....	145,214	6,263	8,123	18,356	177,956	
	Secondary products.....	27,039	xxx	xxx	xxx	xxx	
28293	Miscellaneous acyclic chemicals.....	10,644	xxx	xxx	xxx	xxx	
28711	Mixed fertilizers, complete and incomplete.....	2,416	xxx	xxx	xxx	xxx	
28991	Household insecticides and repellants.....	3,302	xxx	xxx	xxx	xxx	
28992	Weed killers (herbicidal preparations).....	3,010	xxx	xxx	xxx	xxx	
	Other secondary products.....	7,667	xxx	xxx	xxx	xxx	
	Miscellaneous receipts.....	2,360	xxx	xxx	xxx	xxx	
	Contract and commission work.....	1,547	xxx	xxx	xxx	xxx	
	Other receipts.....	813	xxx	xxx	xxx	xxx	
Prod. class code	Salt industry	Salt (S.I.C. 2898)	Other industries	All industries			
	Total shipments and receipts of the industry.....	71,933	xxx	xxx			
28980	Salt.....	69,400	2,236	71,636			
	Secondary products <sup>5</sup> .....	2,522	xxx	xxx			
	Miscellaneous receipts.....	11	xxx	xxx			
Prod. class code	Chemical products industry	Chemical products, n.e.c. (S.I.C. 2899)	Inorganic chemicals, n.e.c. (S.I.C. 2819)	Organic chemicals, n.e.c. (S.I.C. 2829)	Cleaning and polishing products (S.I.C. 2842)	Other industries	All industries
	Total shipments and receipts of the industry.....	531,213	xxx	xxx	xxx	xxx	xxx
	Primary products.....	418,976	20,453	5,855	25,536	125,952	596,772
28991	Household insecticides and repellants.....	42,403	(D)	(D)	6,308	10,626	60,635
28992	Weed killers (herbicidal preparations).....	15,467	(D)	(D)	260	15,162	36,344
28993	Chemical specialties.....	352,517	14,249	5,306	18,968	699,531	490,571
28990	Chemical products, not specified by kind.....	8,589	...	...	xxx	633	9,222
	Secondary products.....	99,615	xxx	xxx	xxx	xxx	xxx
2819-	Inorganic chemicals, n.e.c.....	3,441	xxx	xxx	xxx	xxx	xxx
2829-	Organic chemicals, n.e.c.....	5,037	xxx	xxx	xxx	xxx	xxx
28346	Other pharmaceutical preparations for human use.....	3,080	xxx	xxx	xxx	xxx	xxx
28412	Soaps, except specialty, bulk.....	2,891	xxx	xxx	xxx	xxx	xxx
28423	Specialty detergents.....	4,322	xxx	xxx	xxx	xxx	xxx
28424	Polishing preparations and related products.....	10,349	xxx	xxx	xxx	xxx	xxx
28425	Alkaline detergents.....	2,546	xxx	xxx	xxx	xxx	xxx
28543	Other inorganic pigments, including white extender.....	4,532	xxx	xxx	xxx	xxx	xxx
28941	Glues and adhesives.....	2,428	xxx	xxx	xxx	xxx	xxx
28970	Insecticides and fungicides for agricultural use.....	8,123	xxx	xxx	xxx	xxx	xxx
29921	Lubricating oils.....	6,547	xxx	xxx	xxx	xxx	xxx
	Other secondary products.....	46,319	xxx	xxx	xxx	xxx	xxx
	Miscellaneous receipts.....	12,622	xxx	xxx	xxx	xxx	xxx
	Contract and commission work.....	4,917	xxx	xxx	xxx	xxx	xxx
	Other receipts.....	7,705	xxx	xxx	xxx	xxx	xxx

xxx Not applicable.

D Withheld to avoid disclosing of figures for individual companies.

<sup>1</sup>Includes \$6,352 thousand shipped by establishments classified in Industry 2829, Organic Chemicals, N.E.C.<sup>2</sup>Includes \$6,403 thousand shipped by establishments classified in Industry 2842, Cleaning and Polishing Products.<sup>3</sup>Of this figure, 58 percent consisted of the following product classes: 28119, Other finished petroleum products (petrolatum, naphtha solvents, etc.) 39640, Needles, pins, fasteners, and similar notions.<sup>4</sup>Includes \$6,509 thousand shipped by establishments classified in Industry 2823, Plastics Materials.<sup>5</sup>Includes data for rock salt, produced by establishments which mine as well as produce salt from artificial brine. The amount for which may not be shown separately without disclosing figures for individual companies.<sup>6</sup>Includes \$6,041 thousand shipped by establishments classified in Industry 2822, Intermediates and Organic Colors; \$7,656 thousand shipped by establishments classified in Industry 2851, Paints and Varnishes; Softwood distillation; \$5,384 thousand shipped by establishments classified in Industry 2992, Lubricants, N.E.C. and \$9,681 thousand shipped by establishments classified in Industry 3951, Pens and Mechanical Pencils.

## MISCELLANEOUS CHEMICAL PRODUCTS

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Table 6A.—QUANTITY AND VALUE OF PRODUCTS SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, FOR THE UNITED STATES: 1954 AND 1947

Product code	Product	Unit of quantity	1954			1947	
			Production for all purposes (quantity)	Total shipments including interplant transfers		Total shipments including interplant transfers	
				Quantity	Value (\$1,000)	Quantity	Value (\$1,000)
2891----	Printing inks, total.....		xxx	xxx	172,434	xxx	109,402
	Letter press inks:						
2891011	News.....	Thousand pounds...	231,234	224,887	23,918	164,580	10,519
2891013	Book and magazine (publication).....	do.....	70,460	67,976	29,598	57,708	26,073
2891015	Container and label.....	do.....	41,458	41,580	31,673	25,709	15,429
2891019	Other letter press.....	do.....	19,803	19,576	13,837	xxx	18,109
2891031	Lithographic and offset inks.....	do.....	25,938	25,316	27,970	20,246	18,557
2891051	Gravure.....	do.....	90,839	89,629	18,512	60,300	10,294
2891071	Textile printing.....	do.....	17,371	17,215	10,402	xxx	8,043
2891098	Other printing (including silk screen and stencil inks).....	do.....	14,106	14,176	9,320		
2891000	Printing inks, not specified by kind.....		xxx	xxx	7,204	xxx	2,378
2892----	Essential oils, total.....		xxx	xxx	25,977	xxx	27,314
	Natural:						
2892011	Citrus oils.....	Thousand pounds...	2,744	2,658	8,758	2,024	4,154
2892031	Peppermint oils.....		xxx	xxx	5,860	xxx	22,381
2892098	Other natural essential oils.....		xxx	xxx	10,430		
2892000	Essential oils, not specified by kind.....		xxx	xxx	924	xxx	779
			1954			1947	
			Production for all purposes (quantity)	Total shipments including interplant transfers		Total value of shipments including interplant transfers	
				Quantity	Value (\$1,000)	(\$1,000)	
2893----	Toilet preparations, total.....		xxx	xxx	744,481	465,544	
28931	Perfumes, toilet water, and colognes.....		xxx	xxx	77,041	(NA)	
2893111	Perfume oil mixtures and blends.....		xxx	xxx	13,764	(NA)	
	Perfumes:						
2893121	Liquid.....		xxx	xxx	11,799	}	18,429
2893125	Solid.....		xxx	xxx	1,312		
	Toilet and floral waters and colognes:						
2893131	Liquid.....		xxx	xxx	39,725	}	31,893
2893135	Solid.....		xxx	xxx	7,574		
2893100	Perfumes, toilet water and colognes, not specified by kind.....		xxx	xxx	2,867	(2)	
28932	Hair preparations (including shampoos).....		xxx	xxx	220,422	92,298	
	Shampoos:						
2893211	Containing soap.....		xxx	xxx	20,628	14,423	
2893215	Soapless.....		xxx	xxx	57,903	29,294	
2893221	Hair tonics.....	Thousand gallon...	3,365	3,158	19,632	11,851	
	Permanent wave solutions, neutralizers and rinses:						
2893231	Heat setting, machine and machineless..		xxx	xxx	2,667	1,435	
	Cold waving:						
	Home wave kits:						
2893235	Complete.....	Thousand kits....	17,090	16,783	14,487	}	314,823
2893237	Refill.....	Thousand units....	42,069	42,970	35,043		
2893239	Commercial.....	Thousand gallon...	1,071	1,074	9,845		
2893241	Hair dressings (including brillianines and creams).....		xxx	xxx	20,342	12,764	
2893251	Hair dyes, rinses, and tints.....		xxx	xxx	14,112	3,795	
2893261	Wave set preparations.....		xxx	xxx	11,563	2,013	
2893298	Other hair preparations.....		xxx	xxx	8,181	1,768	
2893200	Hair preparations (including shampoos), not specified by kind.....		xxx	xxx	6,019	132	

See footnotes at end of table.



Table 6A.—QUANTITY AND VALUE OF PRODUCTS SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, FOR THE UNITED STATES: 1954 AND 1947—Continued

Product code	Product	Unit of quantity	1954		1947 total value of shipments including interplant transfers (\$1,000)
			Production for all purposes (quantity)	Total shipments including interplant transfers	
				Quantity Value (\$1,000)	
2893--- 28933	Toilet preparations—Continued Dentifrices, including mouthwashes, gargles and rinses.....		xxx	xxx	130,789
2893311	Tooth paste.....	Thousand pounds...	78,872	77,964	110,825
2893331	Tooth powder.....	do.....	3,942	4,098	4,854
2893351	Denture cleaner.....	do.....	4,701	4,266	5,384
2893371	Mouthwashes, including gargles and rinses.....	do.....	xxx	xxx	166,177
2893398	Other dentifrices, including liquid tooth cleaners.....	do.....	xxx	xxx	2,697
2893300	Dentifrices, including mouthwashes, gargles and rinses, not specified by kind.....	do.....	xxx	xxx	852
28934	Other cosmetics and toilet preparations.....	do.....	xxx	xxx	266,451
	Creams (excluding shaving, hair, and deodorants):				
2893411	Cleansing.....	do.....	xxx	xxx	16,305
2893412	Foundation.....	do.....	xxx	xxx	6,273
2893413	Lubricating.....	do.....	xxx	xxx	8,138
2893414	Other creams.....	do.....	xxx	xxx	11,434
	Cosmetic oils:				
2893415	Suntan.....	do.....	xxx	xxx	1,561
2893416	Baby.....	do.....	xxx	xxx	4,548
2893417	Other cosmetic oils.....	do.....	xxx	xxx	1,886
	Lotions (excluding hair and after-shave):				
2893418	Hand lotions.....	do.....	xxx	xxx	22,081
2893419	Other lotions (excluding hair and after-shave).....	do.....	xxx	xxx	12,135
2893421	Lip preparations (lipstick, lip rouge, etc.).....	do.....	xxx	xxx	23,711
2893422	Rouges (excluding lip rouge).....	do.....	xxx	xxx	2,056
2893423	Mascara and eye shadow.....	do.....	xxx	xxx	1,440
	Deodorant (personal):				
2893424	Liquid.....	do.....	xxx	xxx	13,457
2893425	Cream.....	do.....	xxx	xxx	18,510
2893426	Powder (including sticks).....	do.....	xxx	xxx	3,174
2893427	Depilatories (personal).....	do.....	xxx	xxx	2,964
	Manicuring preparations:				
2893431	Nail lacquers and enamels.....	do.....	xxx	xxx	9,146
2893433	Nail lacquers and enamel removers.....	do.....	xxx	xxx	3,241
2893439	Other manicuring preparations.....	do.....	xxx	xxx	638
	Powders:				
2893441	Talcum and toilet powders.....	do.....	xxx	xxx	27,957
2893443	Face powder.....	do.....	xxx	xxx	13,205
2893445	Liquid and compact for wet application.....	do.....	xxx	xxx	8,639
2893447	Foot powder.....	do.....	xxx	xxx	675
2893449	Other powders (cream, sachet and paste).....	do.....	xxx	xxx	5,191
	Shaving preparations:				
	Brushless (containing no soap): <sup>4</sup>				
2893451	Tube.....	do.....	xxx	xxx	6,783
2893453	Jar.....	do.....	xxx	xxx	1,466
2893457	After-shave lotions.....	Thousand gallon...	1,902	1,851	19,524
2893459	Other shaving preparations, including styptics.....	do.....	xxx	xxx	298
	Miscellaneous cosmetics and toilet preparations:				
2893461	Bath salts, bath oils, and bubble bath.....	do.....	xxx	xxx	5,609
2893498	Other cosmetics and toiletries.....	do.....	xxx	xxx	6,327
2893400	Other cosmetics and toilet preparations, not specified by kind.....	do.....	xxx	xxx	8,079
2893000	Toilet preparations, not specified by kind.....	do.....	xxx	xxx	6,829
28413	Specialty soaps.....	do.....	xxx	xxx	42,949
2841311	Mechanics hand soaps and pastes, made with soap.....	Thousand pounds...	62,308	60,945	12,745
	Shaving preparations, soap or soap base:				
	Lather creams:				
2841331	Tube and jar.....	do.....	5,395	5,532	6,799
2841335	Aerosols.....	do.....	18,836	18,167	17,434
2841341	Stick, powder or cake.....	do.....	4,199	4,239	2,916
2841398	Other specialty soaps.....	do.....	xxx	xxx	xxx
2841300	Specialty soaps, not specified by kind.....	do.....	xxx	xxx	3,055

See footnotes at end of table.

## MISCELLANEOUS CHEMICAL PRODUCTS

28H-19

Table 6A.—QUANTITY AND VALUE OF PRODUCTS SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, FOR THE UNITED STATES: 1954 AND 1947—Continued

Product code	Product	Unit of quantity	1954			1947		
			Production for all purposes (quantity)	Total shipments including interplant transfers		Production for all purposes (quantity)	Total shipments including interplant transfers	
				Quantity	Value (\$1,000)		Quantity	Value (\$1,000)
2894---	Glue and gelatin, total.....	.....	xxx	xxx	180,224	xxx	xxx	155,832
28941	Glues and adhesives.....	.....	xxx	xxx	136,083	xxx	xxx	115,982
	Animal glue:							
2894111	Hide.....	Thousand pounds...	52,384	46,035	13,261	68,854	67,386	18,467
2894113	Extracted bone.....	...do.....	14,031	15,116	2,707	18,084	18,114	4,638
2894115	Green bones.....	...do.....	42,825	45,151	7,631	66,118	69,128	15,244
2894121	Flexible and non-warp glue.....	...do.....	27,855	27,748	5,446	22,779	22,316	4,453
2894131	Liquid glue (not glue stock).....	...do.....	13,577	13,251	4,208	xxx	xxx	( <sup>5</sup> )
	Other protein adhesives:							
2894141	Casein adhesives made from purchased casein.....	...do.....	4,726	4,753	1,104	32,095	30,748	5,682
2894145	Other (including blood, albumen, soy-bean, etc.).....	...do.....	52,368	51,727	6,187	xxx	xxx	( <sup>5</sup> )
	Vegetable glues, adhesives and pastes:							
2894151	Dextrines.....	...do.....	180,279	177,159	20,003	196,190	195,503	19,343
2894155	Starches.....	...do.....	64,540	64,226	6,770			
	Lacquer base adhesives:							
2894161	Nitro cellulose types (collodion and pyroxylin).....	...do.....	9,534	9,582	4,075	3,335	3,302	1,986
2894165	Other.....	...do.....	3,840	3,835	802	xxx	xxx	( <sup>5</sup> )
2894171	Synthetic resin adhesives made from purchased resins <sup>6</sup> .....	...do.....	147,552	146,053	24,496	35,212	35,275	6,074
2894175	Adhesives made from natural gums and resins, except rubber.....	...do.....	25,779	25,415	3,332	xxx	xxx	( <sup>5</sup> )
2894177	Mucilage.....	...do.....	12,173	12,161	1,942	xxx	xxx	1,090
2894179	Other formulated and prepared adhesives...	...do.....	76,599	77,836	13,938	xxx	xxx	( <sup>5</sup> )
	Cements:							
2894185	Furnace.....	...do.....	4,782	4,766	377	xxx	12,457	730
2894189	Other cements.....	...do.....	122,515	116,194	11,381	xxx	xxx	( <sup>5</sup> )
2894198	Other glues and adhesives.....	.....	xxx	xxx	119	xxx	xxx	<sup>5</sup> 38,275
2894100	Glues and adhesives, not specified by kind.....	.....	xxx	xxx	8,304	xxx	xxx	( <sup>7</sup> )
28942	Gelatin except ready-to-mix desserts.....	.....	xxx	xxx	43,926	xxx	xxx	36,067
2894211	Edible (excluding pharmaceutical and photographic).....	Thousand pounds...	35,317	34,187	22,472	32,586	31,857	25,637
2894231	Pharmaceutical.....	...do.....	3,527	3,608	2,587	3,148	3,244	2,857
2894251	Photographic.....	...do.....	9,065	7,305	8,308	6,470	5,995	6,369
2894271	Technical (inedible).....	...do.....	2,295	2,074	813	2,180	2,048	1,024
2894298	Other gelatin <sup>8</sup> .....	.....	xxx	xxx	9,746	644	644	180
2894200	Gelatin, not specified by kind.....	.....				xxx	xxx	( <sup>7</sup> )
2894000	Other glue and gelatin products, and products not specified by kind.....	.....	xxx	xxx	215	xxx	xxx	73,783
2895---	Carbon black, total.....	.....	xxx	xxx	102,833	xxx	xxx	75,646
2895111	Carbon black <sup>9</sup> .....	Thousand pounds...	1,442,926	1,484,640	99,446	1,308,671	1,324,293	71,049
28952	Other blacks (excluding activated carbon and charcoal).....	.....	xxx	xxx	3,387	xxx	xxx	4,597
2895211	Bone black.....	Thousand pounds...	19,421	19,941	2,226	27,666	26,980	3,731
2895251	Lamp black.....	...do.....	xxx	xxx	( <sup>10</sup> )	7,719	7,640	866
2895200	Carbon blacks (excluding activated carbon and charcoal), not specified by kind.....	.....	xxx	xxx	<sup>10</sup> 1,161	xxx	xxx	xxx
2896---	Compressed and liquefied gases, total.....	.....	xxx	xxx	<sup>17</sup> 195,390	xxx	xxx	<sup>17</sup> 109,848
28961	Elemental gases.....	.....	xxx	xxx	79,716	xxx	xxx	48,095
2896115	Argon, refined.....	Thousand cu. ft...	186,216	171,726	6,499	(NA)	(NA)	1,427
2896121	Hydrogen.....	...do.....	27,758,825	9,254,580	5,972	21,185,138	1,768,162	2,601
2896141	Nitrogen.....	...do.....	2,372,560	2,008,746	7,237	507,425	515,303	1,836
	Oxygen, high purity (99.5-100% O <sub>2</sub> ):							
2896151	Electrolytic-process.....	...do.....	398,302	264,603	1,615	549,676	398,101	1,613
2896X52	Liquefaction process.....	...do.....	21,710,235	xxx	xxx	13,879,273	xxx	xxx
2896153	Shipped as liquid.....	...do.....	xxx	13,971,399	12,892	xxx	13,479,898	39,909
2896155	Shipped as gas.....	...do.....	xxx	7,100,267	41,295			
2896157	Oxygen, tonnage (95% O <sub>2</sub> ).....	Thousand short ton	463	xxx	4,206	(NA)	(NA)	(NA)
2896198	Other elemental gases.....	.....	xxx			xxx	xxx	709
2896100	Elemental gases, not specified by kind.....	.....	xxx			xxx	xxx	xxx
28962	Acetylene.....	Thousand cu. ft...	6,390,297	5,129,024	64,550	3,006,955	3,002,196	38,581

See footnotes at end of table.

Table 6A.--QUANTITY AND VALUE OF PRODUCTS SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, FOR THE UNITED STATES: 1954 AND 1947--Continued

Product code	Product	Unit of quantity	1954			1947		
			Production for all purposes (quantity)	Total shipments including interplant transfers		Production for all purposes (quantity)	Total shipments including interplant transfers	
				Quantity	Value (\$1,000)		Quantity	Value (\$1,000)
2896---	Compressed and liquefied gases--Continued							
28963	Carbon dioxide.....	.....	xxx	xxx	43,445	xxx	xxx	20,372
2896311	Liquid or gas (excluding amounts converted to dry ice).....	Thousand pounds...	380,790	316,451	11,545	235,200	237,984	7,617
2896331	Solid (dry ice).....	...do.....	1,118,440	1,061,932	31,900	720,401	703,816	12,755
28964	Other compressed and liquefied gases.....	.....	xxx	xxx	7,649	xxx	xxx	2,653
2896471	Nitrous oxide.....	Thousand gallons S.T.P.....	303,817	301,817	3,124	180,335	175,305	1,517
2896498	Other gases.....	.....	xxx	xxx	4,525	xxx	xxx	1,136
2896000	Compressed and liquefied gases, not specified by kind.....	.....	xxx	xxx	30	xxx	xxx	147
2897---	Insecticides and fungicides, total.....	.....	xxx	xxx	177,956	xxx	xxx	83,356
	Insecticidal and fungicidal preparations for agricultural use:							
	Arsenical preparations:							
2897011	Lead arsenate, acid and basic (commercial basis).....	Thousand pounds...	15,648	13,520	2,923	15,503	9,365	3,527
2897015	Calcium arsenate, commercial 70% Ca <sub>3</sub> (AsO <sub>4</sub> ) <sub>2</sub> .....	...do.....	2,758	2,413	183	23,452	11,044	1,925
2897019	Other arsenical insecticides and fungicides (including Paris green and bordeaux mixtures).....	...do.....	14,029	13,408	1,312	55,820	47,967	5,319
	Sulfur-containing preparations:							
2897021	Wettable sulfur and sulfur dust.....	...do.....	313,005	311,079	9,309	158,041	158,120	3,256
2897025	Lime sulfur (solution and dry).....	.....	xxx	xxx	895	xxx	xxx	1,641
2897029	Other sulfur-containing insecticides and fungicides.....	.....	xxx	xxx	3,170	xxx	xxx	3,113
2897031	Copper-containing dry preparations (excluding Paris green and copper sulfate).....	.....	xxx	xxx	1,910	xxx	xxx	3,609
	Fluorine-containing preparations:							
2897037	Sodium aluminum fluoride (cryolite) dusts and mixtures.....	.....	xxx	xxx	(11)	xxx	xxx	767
2897039	Other fluorine containing insecticides and fungicides.....	.....	xxx	xxx	(11)	xxx	xxx	99
2897041	Nicotine-containing preparations (including nicotine sulfate and dusts).....	Thousand pounds...	(NA)	(NA)	(11)	7,366	7,235	1,700
	Rotenone-containing insecticides:							
2897045	Dusts.....	...do.....	16,060	15,881	2,802	19,762	19,494	4,141
2897047	Sprays (excluding fly sprays).....	...do.....	(NA)	(NA)	421	522	535	450
2897051	Benzene hexachloride preparations, without DDT but including lindane (excluding fly sprays).....	Thousand pounds...	60,525	51,456	10,482	12,523	13,301	3,319
	DDT-containing preparations (excluding aerosols and fly sprays):							
2897061	Preparations containing DDT as an active ingredient.....	...do.....	186,792	178,702	28,143	89,652	86,875	16,141
2897063	Preparations of DDT and other toxicants	...do.....	159,388	149,517	15,099	19,881	18,767	3,096
2897071	Chlorinated hydrocarbon pesticidal preparations other than those containing benzene hexachloride or DDT.....	...do.....	122,502	120,301	31,309	(NA)	(NA)	(12)
2897073	Organic phosphate containing pesticidal preparations.....	...do.....	45,665	44,751	11,881	(NA)	(NA)	(12)
2897075	Synthetic organic fungicides and seed disinfectants (preparations).....	...do.....	24,852	24,314	12,443			
	Petroleum oil sprays (excluding fly sprays and aerosols):							
2897077	Oil sprays and emulsions without other toxicants.....	Thousand gallons..	14,598	14,661	4,386	11,357	10,849	5,488
2897079	Oil sprays containing other toxicants..	...do.....	3,955	4,180	6,578	1,279	1,175	515
2897081	Other insecticidal preparations for agricultural use (excluding aerosols)...	.....	xxx	xxx	11,802	xxx	xxx	12,192
2897085	Other fungicidal preparations for agricultural use.....	Thousand pounds...	24,791	21,253	2,774			
2897000	Insecticides and fungicides, not specified by kind.....	.....	xxx	xxx	13,134	xxx	xxx	6,058
2898011	Salt.....	Thousand short ton	183,905	183,906	1871,636	xxx	4,031	46,570

See footnotes at end of table.



## MISCELLANEOUS CHEMICAL PRODUCTS

28H-21

Table 6A.—QUANTITY AND VALUE OF PRODUCTS SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, FOR THE UNITED STATES: 1954 AND 1947—Continued

Product code	Product	Unit of quantity	1954			1947		
			Production for all purposes (quantity)	Total shipments including interplant transfers		Production for all purposes (quantity)	Total shipments including interplant transfers	
				Quantity	Value (\$1,000)		Quantity	Value (\$1,000)
2899---	Chemical products, n.e.c., total.....		xxx	xxx	596,772	xxx	xxx	361,732
28991	Household insecticides and repellants.....		xxx	xxx	60,635	xxx	xxx	27,653
	Household insecticides and repellants (excluding fly sprays):							
2899111	Roach, ant, and termite poisons.....	Thousand pounds...	xxx	xxx	3,012	2,364	2,379	1,003
	Moths control agents:							
2899131	Liquid.....	Thousand gallons..	360	357	1,172	(NA)	(NA)	1,783
	Solid:							
2899133	Naphthalene type.....	Thousand pounds...	17,653	17,582	3,011	5,575	5,567	1,117
2899135	Paradichlorobenzene type.....	do.....						
2899137	Other solid moth repellants including mixtures.....	do.....	26,648	26,912	8,691	11,772	11,526	3,528
2899139	Other household insecticides including insect repellants for personal use....		xxx	xxx	4,337	xxx	xxx	974
	Other pest control agents:							
2899141	Aerosols.....	Thousand pounds...	19,600	19,587	15,554	4,190	4,321	7,123
	Fly sprays:							
2899151	Livestock sprays.....	Thousand gallons..	1,288	1,235	2,001	(NA)	(NA)	1,194
	Household sprays:							
2899155	Liquid sprays.....	do.....	3,236	3,109	6,184	3,779	3,945	6,090
2899157	Liquid residual.....	do.....	2,138	2,120	3,544			
2899161	Animal dips.....	do.....	270	292	377	262	259	186
2899171	Rodent poisons.....	Thousand pounds...	6,974	6,851	3,344	(NA)	(NA)	1,652
2899181	Fumigants (household, industrial and soil)	do.....	9,454	9,430	1,769	1,340	1,338	352
2899100	Household insecticides and repellants, not specified by kind.....		xxx	xxx	7,639	xxx	xxx	2,651
28992	Weed killers (herbicidal preparations).....		xxx	xxx	36,344	xxx	xxx	7,924
2899211	Arsenical preparations.....		xxx	xxx	2,050	xxx	xxx	1,364
2899231	Sodium chlorate preparations.....	Thousand pounds...	74,254	74,599	4,559	(NA)	(NA)	1,087
2899241	2, 4-D (2, 4-dichlorophenoxyacetic acid) and derivatives.....	do.....	52,823	48,092	16,408	(NA)	(NA)	3,667
2899251	2, 4, 5-trichlorophenoxyacetic acid and derivatives.....	do.....	7,992	8,648	4,339	(NA)	(NA)	1,587
2899298	Other weed killers (hydrocarbon weed killers, etc.).....		xxx	xxx	7,839			
2899200	Weed killers (herbicidal preparations), not specified by kind.....		xxx	xxx	1,149	xxx	xxx	219
28993	Chemical specialties.....		xxx	xxx	490,571	xxx	xxx	306,112
	Automotive chemicals:							
2899313	Antifreeze preparations:							
2899315	Permanent type <sup>13</sup> .....		xxx	xxx	34,568	xxx	xxx	30,065
2899317	Other <sup>13</sup> .....							
	Other automotive chemicals.....							
2899321	Bluing.....	Thousand pounds...	(NA)	(NA)	3,068	6,217	5,945	649
2899323	Chemical catalytic preparations.....		xxx	xxx	34,732	xxx	xxx	7,916
2899325	Concrete curing materials.....	Thousand pounds...	32,745	33,800	3,572	20,035	19,940	1,703
2899327	Concrete floor hardening compounds.....	do.....	19,787	19,757	2,019	23,723	23,622	1,945
	Deodorants, nonpersonal:							
2899331	Aerosol type.....	do.....	3,110	2,842	2,386	(NA)	(NA)	(NA)
2899333	Other.....	Thousand gallons..	4,919	4,852	13,859	1,167	1,172	3,243
	Disinfectants:							
2899334	Coal tar.....	do.....	1,291	1,254	1,483	1,229	1,209	1,736
2899335	Cresylic.....	do.....	393	394	721	1,140	1,141	4,408
2899336	Pine oil (formulations).....	do.....	4,754	4,605	9,741	1,718	1,679	2,465
2899337	Chlorine, other than sodium hypochlorite.....	do.....	xxx	xxx	1,883	8,608	8,607	3,399
2899338	Quaternary ammonium.....		xxx	xxx	2,196	xxx	xxx	1,174
2899339	Other.....		xxx	xxx	9,204	xxx	xxx	2,803
2899341	Drilling mud materials, mud thinners, thickeners and purifiers.....	Thousand pounds...	121,234	121,281	10,160	xxx	xxx	(14)
	Fluxes:							
2899345	Soldering fluxes.....		xxx	xxx	2,512	xxx	xxx	831
2899343	Brazing fluxes.....		xxx	xxx	648	xxx	xxx	1,049
2899347	Welding fluxes.....		xxx	xxx	1,883			

See footnotes at end of table.

## MANUFACTURES—INDUSTRY STATISTICS

Table 6A.—QUANTITY AND VALUE OF PRODUCTS SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, FOR THE UNITED STATES: 1954 AND 1947—Continued

Product code	Product	Unit of quantity	1954			1947		
			Production for all purposes (quantity)	Total shipments including interplant transfers		Production for all purposes (quantity)	Total shipments including interplant transfers	
				Quantity	Value (\$1,000)		Quantity	Value (\$1,000)
28999---	Chemical products, n.e.c.—Continued							
28993	Chemical specialties—Continued							
2899349	Foundry supplies, chemical <sup>12</sup>	.....	xxx	xxx	9,808	xxx	xxx	19,362
2899351	Household ammonia.....	Thousand gallons..	6,385	6,356	3,631	2,303	2,243	1,222
2899353	Household tints and dyes.....	Thousand pounds...	5,710	5,955	8,048	5,878	5,846	5,791
2899355	Insulation products (heat, electrical, other).....	.....	xxx	xxx	3,610	xxx	xxx	3,377
2899357	Laundry soaps.....	Thousand pounds...	11,174	11,212	1,935	xxx	xxx	1,161
2899359	Metal-treating compounds (nitriding, pickling).....	....do.....	(NA)	(NA)	25,999	84,416	84,156	10,329
2899361	Oil-treating compounds, non-oil base.....	.....	xxx	xxx	49,077	(NA)	(NA)	(NA)
2899363	Plastic wood preparations.....	Thousand pounds...	3,450	3,329	2,698	2,552	2,672	1,290
	Sizes:							
2899367	Dextrine-sizes.....	....do.....	1,536	1,442	237	6,835	6,635	1,319
2899365	Rosin sizes.....	....do.....	393,294	394,503	31,170	295,839	295,952	24,673
2899369	Other sizes.....	....do.....	54,594	53,069	7,298			
	Inks:							
2899373	Stamp pad ink.....	.....	xxx	xxx	609	xxx	xxx	2,421
	Writing ink:							
2899375	Fluid.....	Thousand gallons..	2,086	2,120	6,971	1,430	1,458	5,679
2899376	Refill ink cartridges for ball point pens.....	.....	xxx	xxx	7,963	xxx	xxx	3,252
	Water treating compounds:							
2899377	Boiler compounds.....	Thousand pounds...	144,625	141,448	22,804	164,785	164,864	16,750
2899379	Other water softening compounds.....	....do.....	71,252	70,869	12,417	67,658	64,293	9,306
2899381	Water proofing compounds.....	....do.....	(NA)	(NA)	7,719	35,039	34,503	4,217
2899387	Vitreous enamel (frit).....	pounds.....	(NA)	(NA)	23,031	207,598	195,010	17,988
2899385	Other industrial chemical specialties.....	.....	xxx	xxx	103,290	xxx	xxx	14,114,589
2899300	Chemical specialties, not specified by kind.....	.....	xxx	xxx	27,621	xxx	xxx	xxx
2899000	Chemical products, not specified by kind.....	.....	xxx	xxx	9,222	xxx	xxx	20,043

xxx Not applicable.

NA Not available.

<sup>1</sup>Value of interplant transfers amounts to less than 5 percent of total and in no case exceeds 15 percent for any one product.<sup>2</sup>Codes 2893100, 2893300, and 2893400 combined with code 2893000.<sup>3</sup>Codes 2893235 and 2893237 combined with code 2893239, "Commercial".<sup>4</sup>For additional data for shaving preparations, soap or soap base, see product class code 28413, below.<sup>5</sup>Codes 2894131, 2894145, 2894165, 2894175, 2894179, and 2894189 combined with code 2894198, "Other glues and adhesives."<sup>6</sup>See Industry 2823, "Plastics Materials" for additional data on synthetic resins for adhesives.<sup>7</sup>Codes 2894100 and 2894200 combined with 2894000.<sup>8</sup>Includes information principally for unfilled capsules and gelatin sheets for theatrical use.<sup>9</sup>For 1954, the United States Bureau of Mines reported that 1,409,547,000 pounds of carbon black were produced; 378,741,000 by the contact process, and 1,030,806,000 by the furnace process. The corresponding 1947 figures are 653,966,000 pounds by contact process and 664,999,000 pounds by the furnace process.<sup>10</sup>Code 2895251 combined with code 2895200, "Carbon blacks, not specified by kind."<sup>11</sup>Codes 2897037, 2897039, and 2897041 combined with code 2897081, "Other insecticidal preparations for agricultural use."<sup>12</sup>Codes 2897071, 2897073, and 2897075 combined with code 2897081, "Other insecticidal preparations for agricultural use."<sup>13</sup>Excludes unspecified amounts classified as code 2829311, "Acyclic chemicals."<sup>14</sup>Code 2899341 combined with code 2899385, "Other industrial chemical specialties."<sup>15</sup>The 1954 data exclude core oils, classified as primary to Industry 2992, Lubricants, greases.<sup>16</sup>Because some respondents reported these products as proprietary liquid antiseptics (product code 2834629) in 1954 and as mouthwashes in 1947, comparable data may be obtained by adding \$18,756 thousand for antiseptics to the 1954 figure and \$6,058 thousand to the 1947 figure for mouthwashes.<sup>17</sup>Excludes value for helium produced in Government-owned plants. In 1954, these plants produced 190,740 thousand cubic feet and shipped 189,873 thousand cubic feet valued at over \$3 million. In 1947, the amount of helium produced by these plants totaled 70,298 thousand cubic feet and shipped 52,322 thousand cubic feet. The value of the 1947 shipments is not stated by the Bureau of Mines (see Mineral Year Book).<sup>18</sup>Excludes 157 thousand short tons of evaporated salt, valued at \$4,812 thousand, shipped by establishments classified in the Mineral Industries.

## MISCELLANEOUS CHEMICAL PRODUCTS

28H-23

Table 6B.—VALUE OF PRODUCT CLASSES SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, BY DIVISIONS AND STATES FOR 1954, AND UNITED STATES TOTALS FOR EARLIER YEARS

(In thousands of dollars. Statistics are shown for selected product classes which are economically significant and production of which is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (Table 2) and they are not miscellaneous or "not specified by type" classes. For each product class, States are listed only if the value of shipments is more than \$1 million and the figure does not disclose individual company information. Additional States which had shipments of more than \$1 million of the individual product classes are listed in footnote 1.)

Product class, region, and State <sup>1</sup>	Value of shipments	Product class, region, and State <sup>1</sup>	Value of shipments	Product class, region, and State <sup>1</sup>	Value of shipments
<u>Perfumes, toilet waters, and colognes (28931)</u>		<u>Other cosmetics and toilet preparations (28934)—Continued</u>		<u>Elemental gases (28961)—Continued</u>	
1954 United States, total.....	77,041	Middle Atlantic.....	151,475	Middle Atlantic.....	25,274
1951 United States, total.....	56,975	New York.....	71,334	New York.....	2,801
1950 United States, total.....	50,600	New Jersey.....	79,004	New Jersey.....	6,017
1954		Pennsylvania.....	1,137	Pennsylvania.....	16,455
Northeast.....	62,493	East North Central.....	46,592	East North Central.....	21,411
New York.....	38,272	Ohio.....	10,268	Ohio.....	7,527
New Jersey.....	23,515	Indiana.....	4,686	Illinois.....	3,545
East North Central.....	10,350	Illinois.....	28,456	West North Central.....	2,842
West North Central.....	1,456	Michigan.....	1,451	Missouri.....	1,111
Missouri.....	1,174	Wisconsin.....	1,731	South Atlantic.....	5,266
West.....	2,034	West North Central.....	13,027	Maryland.....	1,728
Pacific.....	2,034	Minnesota.....	5,990	West Virginia.....	1,062
		Missouri.....	4,990	East South Central.....	4,267
<u>Hair preparations, including shampoos (28932)</u>		South Atlantic.....	3,904	West South Central.....	3,667
1954 United States, total.....	220,422	East South Central.....	1,252	Louisiana.....	2,801
1953 United States, total.....	186,188	West South Central.....	2,459	Texas.....	5,012
1952 United States, total.....	175,982	Texas.....	1,997	Mountain.....	1,553
1951 United States, total.....	147,719	West.....	15,939	Pacific.....	3,723
1950 United States, total.....	128,707	California.....	15,669	California.....	6,894
1947 United States, total.....	92,298	<u>Glues and adhesives (28941)</u>			
1954		1954 United States, total.....	136,083	<u>Insecticides and fungicides for agriculture use (28970)</u>	
New England.....	22,147	1947 United States, total.....	115,982	1954 United States, total.....	177,956
Middle Atlantic.....	57,716	1954		1952 United States, total.....	208,578
New York.....	22,353	New England.....	16,047	1951 United States, total.....	250,960
New Jersey.....	32,614	Massachusetts.....	15,476	1950 United States, total.....	185,468
Pennsylvania.....	2,748	Middle Atlantic.....	49,748	1947 United States, total.....	83,356
North Central.....	123,590	New York.....	22,295	1954	
Missouri.....	4,672	New Jersey.....	10,711	New England.....	1,636
South.....	8,559	Pennsylvania.....	16,741	Middle Atlantic.....	24,438
Tennessee.....	2,923	East North Central.....	37,268	New York.....	7,637
West.....	8,410	Ohio.....	3,591	New Jersey.....	14,207
<u>Dentifrices, including mouth washes and gargles (28933)</u>		Illinois.....	21,683	Pennsylvania.....	2,593
1954 United States, total.....	130,789	Michigan.....	5,347	East North Central.....	10,096
1947 United States, total.....	93,083	West North Central.....	7,987	Ohio.....	2,345
1954		Minnesota.....	1,912	Illinois.....	2,885
New England.....	1,722	Missouri.....	4,083	Michigan.....	4,002
Middle Atlantic.....	48,795	Nebraska.....	1,209	West North Central.....	8,758
New York.....	4,242	South.....	7,387	Missouri.....	4,892
New Jersey.....	44,447	South Atlantic.....	5,235	South Atlantic.....	45,791
East North Central.....	59,684	Maryland.....	1,849	Maryland.....	11,245
South.....	353	Georgia.....	1,756	Virginia.....	2,340
<u>Other cosmetics and toilet preparations (28934)</u>		Pacific.....	17,646	North Carolina.....	4,481
1954 United States, total.....	266,451	Washington.....	5,824	South Carolina.....	1,926
1953 United States, total.....	323,803	Oregon.....	2,528	Georgia.....	3,520
1952 United States, total.....	313,156	California.....	9,293	Florida.....	15,837
1951 United States, total.....	269,972	<u>Elemental gases (28961)</u>		East South Central.....	15,661
1950 United States, total.....	263,285	1954 United States, total.....	79,716	Alabama.....	5,379
1947 United States, total.....	189,989	1953 United States, total.....	82,808	Mississippi.....	4,360
1954		1952 United States, total.....	81,275	West North Central.....	29,495
New England.....	31,802	1951 United States, total.....	74,747	Louisiana.....	4,983
Connecticut.....	26,196	1950 United States, total.....	64,531	Texas.....	20,629
See footnotes at end of table.		1947 United States, total.....	48,095		
		1954			
		New England.....	1,712		



## MANUFACTURES--INDUSTRY STATISTICS

Table 6B.--VALUE OF PRODUCT CLASSES SHIPPED BY ALL MANUFACTURING ESTABLISHMENTS, BY DIVISIONS AND STATES FOR 1954, AND UNITED STATES TOTALS FOR EARLIER YEARS--Continued

Product class, region, and State <sup>1</sup>	Value of shipments	Product class, region, and State <sup>1</sup>	Value of shipments	Product class, region, and State <sup>1</sup>	Value of shipments
Insecticides and fungicides for agriculture use (28970)--Continued		Household insecticides and repellants (28991)--Continued		Chemical specialties (28993)--Continued	
Mountain.....	12,497	West.....	4,605	West North Central.....	33,005
Pacific.....	2,583	California.....	4,497	Missouri.....	14,949
Oregon.....	1,926	Chemical specialties (28993)		South Atlantic.....	37,236
California.....	26,990	1954 United States, total.....	490,571	Maryland.....	10,054
Household insecticides and repellants (28991)		1947 United States, total.....	306,112	North Carolina.....	2,855
1954 United States, total.....	60,635	1954		South Carolina.....	1,887
1947 United States, total.....	27,653	New England.....	22,744	Georgia.....	20,297
1954		Massachusetts.....	14,191	Florida.....	1,174
Northeast.....	25,741	Rhode Island.....	1,097	East South Central.....	20,713
New York.....	3,939	Connecticut.....	6,242	Tennessee.....	7,455
New Jersey.....	7,086	Middle Atlantic.....	124,901	Mississippi.....	10,504
East North Central.....	10,888	New York.....	44,127	West South Central.....	52,253
Ohio.....	1,806	New Jersey.....	45,784	Louisiana.....	14,675
Illinois.....	7,321	Pennsylvania.....	34,989	Texas.....	35,918
West North Central.....	9,427	East North Central.....	164,742	West.....	34,977
Missouri.....	6,489	Ohio.....	59,766	Oregon.....	1,964
South.....	9,974	Indiana.....	18,390	California.....	32,246
South Atlantic.....	4,762	Illinois.....	49,156		
Maryland.....	1,082	Michigan.....	27,094		
Georgia.....	1,194	Wisconsin.....	10,335		
Tennessee.....	1,873				

Note: The figures shown for 1950 to 1953 are sample estimates obtained from the Annual Survey of Manufactures for those years. Since the estimates are based on a sample they are subject to sampling variability, that is, they are not the same as figures which would have been obtained if complete censuses had been taken for those years. Measures of the sampling variability (standard errors) of the estimated total value of shipments of each product class are shown in the Annual Survey of Manufactures publications. Also shown are the standard errors of the relative change in shipments between some consecutive Annual Survey years which are the more significant measures when the series is studied for trend.

<sup>1</sup>For the specified product classes, shipments of over \$1 million were reported for the States listed but the exact figures are withheld to avoid disclosure of individual company figures: 28931, Illinois, and California; 28932, Massachusetts, Connecticut, Kansas, Maryland, California, Ohio, Indiana, Illinois, and Minnesota; 28933, Ohio, Indiana, Illinois, Minnesota, Missouri, Kansas, and California; 28934, Massachusetts, Kansas, Virginia, and Tennessee; 28941, North Carolina, Texas, Indiana, and Wisconsin; 28961, Massachusetts, Michigan, Kentucky, Tennessee, Alabama, and Indiana; 28970, Iowa, Kansas, Arkansas, Colorado, Arizona, Kentucky, and Tennessee; 28991, Pennsylvania, Massachusetts, Connecticut, Louisiana, and Minnesota.

Table 7.--MATERIALS CONSUMED, BY KIND: 1954

Code	Description of materials	Unit of measure	Quantity	Delivered cost (\$1,000)
	INDUSTRY 2895--CARBON BLACK <sup>1</sup>			
	Materials, containers, and supplies, total.....		xxx	36,788
291131	Fuel oil, used as a raw material.....	42 gallon barrels.....	2 <sup>3</sup> ,782,924	10,549
131311	Natural gas, used as a raw material.....	Million cubic feet.....	2 <sup>2</sup> 251,617	17,516
970000	All other materials and components, containers, and supplies.....		xxx	8,723
	For industries listed below, only the following materials were reported:			
	INDUSTRY 2893--TOILET PREPARATIONS			
282933	Alcohol, ethyl, denatured.....		xxx	2,948
	INDUSTRY 2897--INSECTICIDES AND FUNGICIDES			
147711	Sulfur, crude.....	Long ton.....	145,018	4,697

xxx Not applicable.

<sup>1</sup>Includes materials consumed in the production of carbon black, lamp black, and bone black.

<sup>2</sup>The Bureau of Mines reports that 154,919 thousand gallons of liquid hydrocarbons valued at \$10,320 thousand and 251,176 million cubic feet of natural gas, valued at \$17,510 thousand were used in manufacturing carbon black by the channel and furnace processes. The 1947 figures also reported by that agency are 480,646 million cubic feet of natural gas valued at \$22,723 thousand. Data for liquid hydrocarbons used in the production of carbon black are not shown separately.

Table 8.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY INDUSTRY SPECIALIZATION AND PRIMARY PRODUCT CLASS SPECIALIZATION, FOR THE UNITED STATES: 1954

(This table presents selected statistics for establishments classified according to their degree of specialization in products primary to the industry. The establishments are classified in two ways: (1) by industry specialization—the degree of specialization in all primary products of the industry; and (2) by product-class specialization—the degree of specialization in the largest product class of the establishment. The degree of "industry specialization" for an establishment represents the ratio of its primary product shipments to its total product shipments, primary and secondary. The degree of "product-class specialization" for an establishment represents the ratio of its largest product class shipments to its total product shipments, primary and secondary. Data are not shown for some industries, product classes, and specialization ranges for a variety of reasons, consequently, detailed figures frequently do not add to the totals. See Introduction for detailed explanation)

Ind. or product class No.	Industry or product class by percent of specialization	Establishments, number	All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
2892	ESSENTIAL OILS (entire industry).....	37	547	2,846	330	636	1,215	5,484	15,348	20,832
	Establishments with:									
	90% or more specialization.....	27	264	1,291	167	312	611	2,804	9,516	12,320
2893	TOILET PREPARATIONS (entire industry).....	710	24,809	94,726	16,185	31,051	47,728	419,666	208,986	628,651
	Establishments with:									
	90% or more specialization.....	615	17,762	66,845	11,833	22,859	34,152	293,099	144,060	437,159
	75-89% specialization.....	30	3,361	12,815	2,126	3,942	6,489	54,012	28,282	82,294
	50-74% specialization.....	44	2,998	12,761	1,722	3,279	5,774	64,890	32,255	97,146
	All other <sup>1</sup> .....	21	687	2,303	503	969	1,313	7,664	4,387	12,052
28931	Perfumes, toilet water, and colognes:									
	All establishments specializing in product class	73	2,029	7,641	1,437	2,721	3,992	35,094	21,119	56,213
	Establishments with:									
	90% or more specialization.....	46	490	2,282	319	564	914	5,473	5,350	10,822
	75-89% specialization.....	12	264	1,255	178	364	539	6,264	3,180	9,444
	50-74% specialization.....	11	607	1,853	493	942	1,262	12,297	4,784	17,081
	Less than 50% specialization.....	4	668	2,251	446	850	1,276	11,059	7,804	18,864
28932	Hair preparations, including shampoos:									
	All establishments specializing in product class	204	6,485	27,082	3,509	6,779	10,750	116,557	50,553	167,111
	Establishments with:									
	90% or more specialization.....	148	2,369	9,345	1,417	2,778	4,236	32,604	19,746	52,350
28933	Dentifrices, including mouthwashes and gargles:									
	All establishments specializing in product class	35	1,806	7,868	1,271	2,482	4,915	82,031	31,493	113,525
	Establishments with:									
	90% or more specialization.....	27	806	3,280	556	1,037	1,895	24,515	9,175	33,691
28934	Other cosmetics and toilet preparations:									
	All establishments specializing in product class	289	13,434	48,808	9,195	17,605	26,003	174,819	99,415	274,235
	Establishments with:									
	90% or more specialization.....	183	4,291	13,902	3,233	5,922	8,611	55,443	28,467	83,910
	75-89% specialization.....	28	1,925	7,739	1,223	2,308	3,522	33,044	15,588	48,633
	50-74% specialization.....	56	5,166	18,241	3,542	7,182	10,173	56,604	39,667	96,272
	Less than 50% specialization.....	22	2,052	8,925	1,195	2,191	3,695	29,727	15,692	45,420
2894	GLUE AND GELATIN (entire industry).....	230	6,753	29,192	4,814	9,425	17,683	64,771	74,580	139,352
	Establishments with:									
	90% or more specialization.....	174	3,575	15,300	2,394	4,407	8,080	35,385	47,299	82,684
	75-89% specialization.....	15	1,554	6,785	1,275	2,562	5,053	14,048	12,735	26,783
	50-74% specialization.....	30	1,358	5,836	1,007	2,183	4,069	13,277	11,875	25,153
	All other <sup>1</sup> .....	11	265	1,270	137	272	479	2,061	2,670	4,731
28941	Glues and adhesives:									
	All establishments specializing in product class	213	5,147	21,623	3,542	6,783	12,157	47,957	58,213	106,170
	Establishments with:									
	90% or more specialization.....	161	2,777	11,551	1,780	3,109	5,429	25,157	36,519	61,677
	75-89% specialization.....	12	867	3,470	665	1,299	2,355	6,790	7,438	14,229
	50-74% specialization.....	29	1,247	5,386	967	2,114	3,920	14,048	11,574	25,622
	Less than 50% specialization.....	11	255	1,215	130	260	453	1,961	2,680	4,641
28942	Gelatin, except ready-to-mix desserts:									
	All establishments specializing in product class	12	1,589	7,502	1,259	2,624	5,491	16,694	16,342	33,036
	Establishments with:									
	90% or more specialization.....	7	736	3,520	562	1,188	2,473	9,604	10,163	19,767
2896	COMPRESSED AND LIQUEFIED GASES (entire industry).....	428	10,363	44,092	6,315	13,143	25,288	111,254	56,422	167,674
	Establishments with:									
	90% or more specialization.....	424	10,195	43,449	6,205	12,911	24,881	109,651	55,838	165,488
28961	Elemental gases:									
	All establishments specializing in product class	210	6,395	26,972	3,649	7,330	14,430	63,307	17,380	80,687
	Establishments with:									
	90% or more specialization.....	147	4,359	18,037	2,566	5,107	10,018	46,668	11,222	57,891
28962	Acetylene:									
	All establishments specializing in product class	142	1,882	7,793	1,416	3,215	5,552	16,880	31,316	48,195
	Establishments with:									
	90% or more specialization.....	122	1,469	6,095	1,152	2,668	4,549	14,018	29,577	43,595

See footnote at end of table.

## MANUFACTURES—INDUSTRY STATISTICS

Table 2.—GENERAL STATISTICS FOR MANUFACTURING ESTABLISHMENTS, CLASSIFIED BY INDUSTRY SPECIALIZATION AND PRIMARY PRODUCT CLASS SPECIALIZATION, FOR THE UNITED STATES: 1954—Continued

Ind. or product class No.	Industry or product class by percent of specialization	Establishments, number	All employees		Production workers			Value added by manufacture (\$1,000)	Cost of materials, etc. (\$1,000)	Value of shipments (\$1,000)
			Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)			
2896	COMPRESSED AND LIQUEFIED GASES—Continued									
28963	Carbon dioxide:									
	All establishments specializing in product class	56	1,739	7,954	1,070	2,226	4,656	28,897	6,721	35,619
	Establishments with:									
	90% or more specialization.....	56	1,739	7,954	1,070	2,226	4,656	28,897	6,721	35,619
2897	INSECTICIDES AND FUNGICIDES (entire industry).....	265	6,510	25,218	4,276	8,224	13,211	62,099	112,514	174,613
	Establishments with:									
	90% or more specialization.....	202	3,933	14,399	2,592	5,000	7,264	30,293	75,310	105,603
	75-89% specialization.....	25	520	1,895	349	659	998	4,100	6,518	10,618
	50-74% specialization.....	32	1,553	6,993	996	1,904	3,720	23,019	24,284	47,304
	All other <sup>1</sup> .....	6	504	1,931	337	660	1,228	4,686	6,401	11,088
2899	CHEMICAL PRODUCTS, N.E.C. (entire industry).....	1,204	21,415	95,026	13,346	25,443	45,473	266,627	264,586	531,213
	Establishments with:									
	90% or more specialization.....	933	11,238	50,699	6,639	12,386	22,189	140,308	138,634	278,942
	75-89% specialization.....	65	1,777	8,526	1,143	2,187	4,278	27,671	24,668	52,339
	50-74% specialization.....	140	5,004	21,970	3,106	6,131	10,525	69,855	65,447	135,303
	All other <sup>1</sup> .....	66	3,394	13,830	2,457	4,737	8,480	28,792	35,836	64,628
28991	Household insecticides and repellants:									
	All establishments specializing in product class	174	2,697	9,729	1,997	3,742	6,386	21,230	31,205	52,436
	Establishments with:									
	90% or more specialization.....	122	1,115	3,424	753	1,334	1,928	8,321	11,246	19,568
28992	Weed killers (herbicidal preparations):									
	All establishments specializing in product class	29	459	2,043	300	596	1,105	6,496	10,217	16,714
	Establishments with:									
	90% or more specialization.....	16	166	722	103	207	351	2,176	2,725	4,901
28993	Chemical specialties:									
	All establishments specializing in product class	843	17,133	78,542	10,272	19,554	35,327	221,864	205,521	427,386
	Establishments with:									
	90% or more specialization.....	632	8,469	38,816	4,991	9,292	17,297	112,660	109,343	222,003
	75-89% specialization.....	56	2,086	11,446	1,200	2,302	4,658	33,309	26,392	59,702
	50-74% specialization.....	110	4,371	19,581	2,587	5,087	8,600	56,409	46,900	103,309
	Less than 50% specialization.....	45	2,206	8,697	1,493	2,872	4,771	19,486	22,885	42,372

<sup>1</sup>This class includes data for establishments with less than 50 percent specialization in the primary products of the industry and establishments engaged exclusively in contract work defined in the industry. Miscellaneous small statistical adjustments are also included.







# **SPECIAL REPORT**

## **MANUFACTURING ACTIVITY IN GOVERNMENT ESTABLISHMENTS**

SR - 1



## Manufacturing Activity in Government Establishments

This special report presents data for manufacturing activities of selected government establishments in continental United States. These data are not included in other 1954 Census of Manufactures reports, which cover privately operated establishments only. Manufacturing establishments owned by the Federal government and operated by private companies either for the government or for their own account are included with privately operated establishments. Three types of establishments are covered in this report: (1) manufacturing facilities owned and operated by the Department of Defense; (2) manufacturing facilities owned and operated by other United States Government agencies, and (3) prison industries (Federal, District of Columbia and State). The data were prepared with the cooperation of the Department of Defense, the Department of Justice, the Department of Interior and the District of Columbia and State prison systems.

### Manufacturing Facilities Owned by the United States Government and Operated by the Department of Defense

Data are shown in Tables 1 to 3 for manufacturing facilities owned by the United States Government and operated by the Department of Defense. Although these establishments may also be engaged in nonmanufacturing activities at the same location, the statistics represent only their activities relating to manufacturing.

This report covers all manufacturing installations operated by the Department of Defense which produce goods or perform manufacturing services for the general supply system of the Department of Defense. It does not include activities of Defense Department installations which serve primarily or exclusively their own installations (e.g., bakeries, some machine shops and box plants).

Statistics are shown in these tables for employment, man-hours, payrolls, value added by manufacture, and value of shipments. Value of shipments reflects all of the direct costs incurred by the establishments in manufacturing operations such as labor, raw materials, components, parts, supplies, overhead, etc. For shipyards, value of shipments represents the value of new construction and repair work performed during the year whether or not the vessels were completed by the end of 1954. Generally, individual product statistics are shown only for those items with a civilian counterpart. Furthermore, product detail on ordnance and related items is withheld for security reasons on advice of the Bureau of the Budget.

Value added by manufacture represents the total value of shipments (including the value of manufacturing services) less the cost of materials, parts, supplies, etc., actually consumed or

put into production during the year, whether purchased during 1954, withdrawn from inventories, or received from other Government agencies. For a few establishments, value added by manufacture was partly estimated by the Bureau of the Census after consultation with the Department of Defense, on the basis of related data reported by the establishment.

Military personnel are not included in any of the employment, payroll or man-hours data. These data represent only nonmilitary (wage board and graded) employees engaged in the manufacturing activities at the plant.

### Manufacturing Facilities Owned and Operated by Other United States Government Agencies

Manufacturing operations of the Bureau of Mines, U. S. Department of Interior, are not included in Tables 1 to 3. That Agency is the sole producer of helium in the United States. During 1954, it operated 4 plants from which 190 million cubic feet of helium valued at \$3,202 thousand were shipped. The value added by manufacture for these plants was \$2,838 thousand. The average number of employees totaled 358, of which 275 were production and related workers, and the total wages and salaries paid amounted to \$1,583 thousand. The Bureau of Mines also operated a titanium pilot plant during part of 1954 which produced 290 thousand pounds of titanium sponge and employed 64 persons. Additional detail for production, shipments, consumption, prices, reserves and activities relating to conservation and technology appear in the Minerals Yearbook, a publication of the Bureau of Mines.

Excluded from this report are the manufacturing activities of the Government Printing Office and the Tennessee Valley Authority. The operations of these agencies are covered in their Annual Reports. Also excluded are the minor manufacturing activities of such other Government agencies as the Post Office Department and the General Services Administration. The manufacturing activities of these latter agencies have no counterparts in private industry.

### Prison Industries (Federal, District of Columbia, and State)

During 1954 manufactured products valued at \$69,184 thousand were produced in Federal, District of Columbia, and State prisons in the United States. It is estimated that about 10 percent of this total was sold on the open market, the remainder representing products used by Federal or local government agencies, including the prison systems. These data, shown in detail in Table 4, cover the activities of the Federal Prison Industries, Inc., as well as those of the prison industries of each State and the District of Columbia.

## MANUFACTURING ACTIVITY IN GOVERNMENT ESTABLISHMENTS

SR-3

Table 1.--EMPLOYMENT, PAYROLLS, MAN-HOURS, AND VALUE ADDED BY MANUFACTURE FOR MANUFACTURING FACILITIES OPERATED BY THE DEPARTMENT OF DEFENSE, BY STATES: 1954<sup>1</sup>

Geographic division and State	All employees (wage board and graded)		Production workers (wage board)			Value added by manufacture (\$1,000)
	Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	
UNITED STATES, TOTAL.....	172,884	752,798	138,532	249,545	603,394	919,772
New England.....	26,283	112,480	21,386	38,209	91,182	126,766
New Hampshire.....	7,907	33,542	6,264	11,584	26,503	35,415
Massachusetts.....	18,376	78,938	15,122	26,625	64,679	91,351
Middle Atlantic.....	42,154	188,539	33,318	60,146	150,547	225,618
New York.....	19,396	92,515	15,454	28,564	75,542	112,641
New Jersey.....	3,839	14,526	2,902	4,980	10,551	16,036
Pennsylvania.....	18,919	81,498	14,962	26,602	64,454	96,941
East North Central.....	12,642	52,572	9,618	20,097	39,491	71,462
Ohio.....	33	164	33	68	164	400
Indiana.....	3,863	16,778	2,772	4,960	11,189	23,967
Illinois.....	8,746	35,630	6,813	15,069	28,138	47,095
West North Central.....	2,653	9,387	2,296	4,171	8,017	11,700
Nebraska.....	2,653	9,387	2,296	4,171	8,017	11,700
South Atlantic.....	33,972	144,414	27,146	47,177	113,168	171,487
Maryland.....	3,366	13,165	2,858	5,195	10,999	14,929
District of Columbia.....	8,732	39,239	5,797	9,968	25,657	52,500
Virginia.....	13,474	58,582	11,168	19,784	48,858	63,310
South Carolina.....	6,344	26,391	5,425	9,564	21,245	31,500
Georgia.....	2,056	7,037	1,898	2,666	6,409	9,248
East South Central.....	2,537	11,403	1,834	3,592	8,368	15,250
Kentucky.....	1,474	6,616	1,220	2,117	5,626	8,850
Alabama.....	1,063	4,787	614	1,475	2,742	6,400
West South Central.....	5,874	21,546	4,777	9,510	16,815	30,523
Arkansas.....	2,963	11,162	2,120	4,248	7,384	14,750
Oklahoma.....	2,911	10,384	2,657	5,262	9,431	15,773
Mountain.....	2,747	11,931	1,938	4,103	8,161	15,910
Idaho.....	401	1,583	361	812	1,424	2,100
Colorado.....	2,051	9,149	1,337	2,809	5,789	12,210
Nevada.....	295	1,199	240	482	948	1,600
Pacific.....	44,022	200,526	36,219	62,540	167,645	251,056
Washington.....	14,616	66,227	12,188	21,358	55,926	79,571
California.....	29,406	134,299	24,031	41,182	111,719	171,485

Table 2.--EMPLOYMENT, PAYROLLS, MAN-HOURS, AND VALUE ADDED BY MANUFACTURE FOR MANUFACTURING FACILITIES OPERATED BY THE DEPARTMENT OF DEFENSE, BY PRINCIPAL TYPE OF MANUFACTURING ACTIVITY: 1954

Ind. code	Major activity	All employees (wage board and graded)		Production workers (wage board)			Value added by manufacture (\$1,000)
		Number	Payroll (\$1,000)	Number	Man-hours (1,000)	Wages (\$1,000)	
	All manufacturing facilities, total <sup>1</sup> .....	172,884	752,798	138,532	249,545	603,394	919,772
2099	Coffee roasting.....	91	383	88	154	364	458
2298	Cordage and twine.....	75	263	73	107	256	452
2310	Men's suits, coats, and other clothing.....	2,429	7,671	2,179	3,716	6,350	9,385
2320							
2393							
2394	Canvas and other fabricated textile products..	330	1,516	285	668	918	1,940
2399							
2826	Explosives.....	3,044	11,787	2,580	4,458	9,818	13,319
2851	Paints, varnishes, lacquers, japans, and enamels.....	104	470	103	178	465	842
3391	Iron and steel forgings.....	10	48	10	20	48	114
3471	Lighting fixtures.....	163	663	163	303	663	900
3731	Ship and boat building and repairing.....	109,754	496,031	89,577	156,489	408,631	579,947
3732							
1900	Ordnance.....	56,884	233,966	43,474	83,452	175,881	312,415

<sup>1</sup>Excludes data for foundries which are part of nonmanufacturing establishments.

## MANUFACTURING ACTIVITY IN GOVERNMENT ESTABLISHMENTS

Table 3.--QUANTITY AND VALUE OF PRODUCT SHIPMENTS BY MANUFACTURING FACILITIES OPERATED BY THE DEPARTMENT OF DEFENSE: 1954

Product code	Product	Unit of quantity	Total shipments including interplant transfers	
			Quantity	Value f.o.b. plant (\$1,000)
2799515	Roasted coffee, ground.....	Thousand pounds	55,566	53,086
2298111	Abaca rope and cable:			
2298115	3/4 inch in diameter and larger.....	do.....	3,954	1,118
	Less than 3/4 inch in diameter.....	do.....	1,039	298
2298221	Agave rope and cable 3/4 inch in diameter and larger.....	do.....	12	8
	Men's military uniform apparel:			
231117-	Uniform suits.....	Number.....	170,570	2,961
2311271	Overcoats.....	do.....	21,617	283
2311371	Jackets.....	do.....	318,218	4,735
2321151	Shirts.....	Dozen.....	93,400	3,492
2327061	Trousers.....	do.....	80,600	4,084
	Men's work clothing:			
2329111	Pants.....	Pair.....	268,283	735
2329251	Jackets.....	Number.....	532,774	1,598
2329398	Men's armored clothing, caps, liners, and miscellaneous items.....		xxx	3,214
2394031	Canvas tents.....		xxx	1,342
2390000	Other fabricated textile products, such as canvas products, bags, etc.....		xxx	3,188
2826000	Explosives.....		xxx	25,693
	Paints, marine:			
2851217	Ship bottom.....	Thousand gallons	628	1,406
2851219	Other.....	do.....	3,244	5,860
3321000	Gray iron castings <sup>1</sup> .....		xxx	572
3391000	Iron and steel forgings.....		xxx	209
3471000	Lighting fixtures.....		xxx	1,282
3731000	Shipbuilding and repair.....		xxx	780,042
3732000	Boatbuilding and repair.....		xxx	11,386
3799000	Other transportation equipment.....		xxx	5,323
3831000	Optical instruments and lenses.....		xxx	4,572

xxx Not applicable.

<sup>1</sup>Excludes castings produced and consumed at the same facility.

Table 4.--QUANTITY AND VALUE OF SHIPMENTS OF PRODUCTS MANUFACTURED AT FEDERAL, DISTRICT OF COLUMBIA, AND STATE PRISONS: 1954

Product code	Product	Unit of quantity	Quantity	Value f.o.b. plant (\$1,000)
	Total.....		xxx	69,184
2010000	Meat and meat products.....		xxx	1,389
2030000	Canned foods.....		xxx	3,689
2041000	Flour.....		xxx	304
2042000	Prepared animal feeds.....		xxx	380
2099000	Coffee and tea.....		xxx	1,261
2131000	Tobacco, chewing and smoking.....		xxx	800
2224200	Yarns.....	Thousand pounds	1,704	836
2213200	Blankets.....		xxx	1,419
2233600			xxx	1,419
2233000	Woven fabrics.....	Thousand pounds	10,849	7,864
2250000	Knit goods.....		xxx	861
2298000	Cordage and twine.....	Thousand pounds	16,328	3,038
2299100	Linen goods (flax).....		xxx	121
2311000	Apparel.....		xxx	9,547
2329000			xxx	773
2392000	Sheets and pillow cases.....		xxx	922
2394000	Canvas specialties.....		xxx	121
2399000	Miscellaneous textile products.....		xxx	152
2421100	Lumber.....		xxx	1,736
2515100	Mattresses.....		xxx	4,544
2531000	Wooden furniture.....		xxx	225
2532000	Hospital beds.....		xxx	293
2699000	Paper products.....		xxx	1,263
2751000	Printing and binding.....		xxx	1,174
2761000			xxx	1,527
2781000	Soaps.....		xxx	5,746
2841000	Paints.....		xxx	954
3141000	Shoes.....	Thousand pairs.	1,173	248
3251000	Brick.....		xxx	456
3271000	Concrete products.....		xxx	7,932
3321000	Iron castings.....		xxx	643
3322000			xxx	3,265
3463198	License plates.....	Thousands.....	81,378	2,741
3522000	Farm equipment.....		xxx	2,532
3599000	Miscellaneous metal products.....		xxx	428
3981000	Brooms and brushes.....		xxx	
3993000	Highway and road signs.....	Thousands.....	1,204	
9000000	Miscellaneous products.....		xxx	

Note: Excludes agricultural products, road building, and other nonmanufacturing activities.

xxx Not applicable.



# Appendix A

## Industry Descriptions

Appendix A, which is included in Volume I, Summary Statistics, and Volume III, Area Statistics, has been omitted from this volume. The information contained in the appendix includes the industry description and the coverage and specialization ratio for each industry. Similar but more extensive information of this type is contained elsewhere in this volume: the industry description in the text preceding the tables for each industry, and the ratios in Table 5A for each industry.



## Appendix B

# COMPARISON OF 1954 AND 1947 CENSUS OF MANUFACTURES INDUSTRY CLASSIFICATIONS

This appendix describes the principal changes in scope and content of 1947 and 1954 manufacturing industries as well as revisions of the 1945 edition of the Standard Industrial Classification approved by Bureau of the Budget prior to the 1954 Census. The 1954 Census is based on the November 1945 edition of the Standard Industrial Classification as amended by the Bureau of the Budget prior to that Census. For the 1954 Census, the manufacturing division comprises 20 major industry groups (two-digit groups ranging from codes 20 to 39 inclusive; group 19 is combined with group 39); 142 industry groups (three-digit codes); and 446 individual industries (four-digit codes). This represents an increase from the 1947 Census of one 3-digit group (Group 241, Logging Camps and Logging Contractors) and a decrease of seven 4-digit industries. The decrease in the number of industries reflects primarily consolidations of smaller and less significant industries.

As a whole the scope and content of 1954 and 1947 Census industries are in substantial agreement. It should be noted that both in 1954 and 1947 separate central administrative or auxiliary units of multi-establishment companies are not included in the operating manufacturing establishment totals. However, in 1954 unlike 1947, they are included in the "all manufacturing" totals shown in the Summary and State volumes. The principal changes between the industry classifications followed in the 1954 Census and those in the 1947 Census publication or the 1945 edition of the SIC Manual are discussed below:

A. The amended Standard Industrial Classification added the following establishments to the scope of manufacturing:

1. Establishments processing milk (pasteurizing, homogenizing, vitaminizing and bottling) as well as producing other dairy products are included in Group 202, Dairy Products, whether or not the processing establishments are also engaged in the route distribution of milk. In 1947 such plants were included in Trade Industries; however, supplemental data were collected from plants processing milk provided they were also engaged in producing other dairy products. These data were tabulated separately on the basis of the plant's principal manufacturing activity, except for fluid milk and cream, and excluded from manufacturing totals.

2. Establishments primarily engaged in the production of fresh (not frozen) packaged oysters and other seafood, formerly classified in Wholesale Trade, are now included in Industry 2036, Packaged Seafood.

3. Apparel and knitting jobbers and leather converters who assign materials to contract factories for fabrication for their account are included in manufacturing industries. Jobbers assigning materials fabricated on a cut-make-trim basis are classified in Major Group 23, Apparel and Related Products; jobbers supplying yarns to commission knitters in Group 225, Knitting Mills; converters assigning hides and skins for tanning and finishing in Industry 3111, Leather Tanning and Finishing. Since these apparel jobbers and leather converters were included in the scope of the 1947 Census, the revision in the Standard Industrial Classification does not affect the comparability of 1954-1947 Census data.

B. In addition to the expanded scope of manufactures arising from the amendments to the Standard Industrial Classification, the 1954 Census included the following types of establishments

which had been excluded from the 1947 Census due primarily to the difficulties involved in obtaining adequate mailing lists:

1. Logging camps and contractors (in 1954 classified in Industry 2411).

2. Sawmills producing less than 200,000 board feet of lumber (in 1954 classified in Industry 2421).

3. Gum naval stores produced in fire stills, output of which in 1947 was estimated at fifteen percent and by 1954 had declined to less than two percent of the total output of Industry 2863.

C. As a result of clarifications of the scope of manufactures in the 1945 edition of the Standard Industrial Classification, the following activities included in the 1947 Census have been excluded from the 1954 Census. The exclusion of these activities has had little effect on the overall comparability of data.

1. Retail multi-outlet bakeries producing bakery products at each location for direct sale to consumers on the premises were included in 1947 Census Industry 2051 and in Retail Trade in 1954.

2. Wool combing jobbers (establishments having wool combed for them on contract) were included in 1947 Industry 2211 and classified in Trade Industries in 1954.

3. Coke ovens owned and operated by Public Utilities were included in 1947 Industry 2932 and excluded from the scope of the 1954 Census of Manufactures, Business, and Mineral Industries.

D. The amended Standard Industrial Classification established a number of separate industries by dividing existing industries; conversely, it eliminated a number of four-digit industries by combination. Other amendments include the transfer of products from one industry to another. Since many of these amendments were consistent with Census procedures followed in 1947, the 1954-1947 data are generally comparable. Shifts of product classification are described in the text material preceding the applicable industry in the Industry Volume.

Table A below shows industries which have been significantly amended from the 1945 edition of the Industrial Classification and their 1954 Census of Manufactures equivalents—including approved Census rearrangements of the amended Standard Industrial Classification.

Table B below compares industry classifications used in the publication of the 1954 Census of Manufactures with those followed in the 1947 Census. It includes all industries which have been changed significantly in content from 1947; other industry codes and content remain substantially unchanged from 1947. The first column lists the 1954 Census industry code; the second column the equivalent 1947 industry code (an asterisked code means that only part of the 1947 industry is included). The industry titles shown are the 1954 and 1947 Census short industry titles. 1947 Census equivalent whole or parts of 1954 industries are indented below the corresponding 1954 Census titles and the following details are shown where applicable: (1) reference to the specific part of the 1947 Census industry covered and (2) reference to other 1954 industries into which the 1947 industry was distributed. The last four columns contain the 1954 and 1947 Census totals which comprise the retabulated industry data consisting of number of employees and value added by manufacture. Since the 1947 retabulated data includes adjustments to previously published data they may differ from figures shown in the 1947 Census of Manufactures.

Table A.--AMENDMENTS TO THE 1945 STANDARD INDUSTRIAL CLASSIFICATION

<u>1954 Industry Classifications</u>		<u>1945 Standard Industrial Classifications</u>	
2011	Meat packing plants.....	{	2011 Meat packing plants
2013 <sup>1</sup>	Prepared meats.....	{	2012 Custom slaughtering, wholesale
202	Dairy products.....	{	2013 Prepared meats
2036	Packaged seafood.....	{	2014 Sausage casings
2037	Packaged fruits and vegetables.....	{	202 Dairy Products
2099	Food preparations, n.e.c.....	{	5052 pt Dairy products, (wholesale milk processors)
2212 <sup>1</sup>	Yarn mills, wool, except carpet.....	{	5452 pt Retail milk dealers (processors of fluid milk)
2213 <sup>1</sup>	Woolen and worsted fabrics.....	{	2037 pt Frozen fruits, vegetables and seafoods (frozen seafood). See also 2037
2216 <sup>1</sup>	Finishing wool textiles.....	{	5046 pt Fish and seafoods (fresh, not frozen, packaged fish)
2224 <sup>1</sup>	Yarn mills, cotton system.....	{	2037 pt Frozen fruits, vegetables and seafoods (except frozen seafoods) See also 2036
2233 <sup>1</sup>	Cotton broad-woven fabrics.....	{	2096 Vinegar and cider
2234 <sup>1</sup>	Synthetic broad-woven fabrics.....	{	2099 Food preparations, n.e.c.
2299 <sup>2</sup>	Textile goods, n.e.c.....	{	2221 pt Yarn mills (except cotton and synthetic). See also 2224
2421	Sawmills and planing mills.....	{	2232 Woolen and worsted fabrics
2519	Household furniture, n.e.c.....	{	2262 Finishing wool textiles
2833 <sup>1</sup>	Medicinal chemicals, including botanicals.....	{	2221 pt Yarn mills (except wool). See also 2212
2865	Tanning and dyeing materials.....	{	2231 pt Broad-woven fabric mills (except synthetic). See also 2234
2889	Animal oils, n.e.c.....	{	2231 pt Broad-woven fabric mills (except cotton) See also 2233
2999	Products of petroleum and coal, n.e.c.....	{	2296 Linen goods
3295	Minerals, ground and treated.....	{	2297 Jute goods, except felt
3299	Nonmetallic mineral products.....	{	2299 Textile goods
3312	Blast furnaces and steel mills.....	{	2421 Sawmills and planing mills
3339	Primary nonferrous metals, n.e.c.....	{	2429 Special-product sawmills, n.e.c.
3439 <sup>1</sup>	Heating and cooking equipment, except electric..	{	2513 Reed and rattan furniture
3463 <sup>1</sup>	Metal stampings.....	{	2519 Household furniture, n.e.c.
	Classified according to product <sup>1</sup> .....	{	2832 Botanical products
3544	Special dies and tools.....	{	2833 Medicinal chemicals
3545	Metalworking machine attachments.....	{	2864 Natural dyeing materials
3579 <sup>1</sup>	Office and store machines, n.e.c.....	{	2865 Natural tanning materials
3594	Industrial patterns and molds.....	{	2885 Marine animal oils
3717 <sup>1</sup>	Motor vehicles and parts.....	{	2889 Animal oils, n.e.c.
3999	Miscellaneous products, n.e.c.....	{	2991 Fuel briquets and packaged fuel
		{	2999 Products of petroleum and coal
		{	3294 Natural graphite: ground, refined or blended
		{	3295 Minerals, ground and treated
		{	3296 Sand-lime brick, block, and tile
		{	M.G. 32 pt Stone, clay and glass products
		{	3311 Blast furnaces
		{	3312 Steel works and rolling mills
		{	3335 Primary magnesium
		{	3339 Primary nonferrous metals, n.e.c.
		{	3432 Oil burners
		{	3439 Heating and cooking equipment, except electric, n.e.c.
		{	3462 Automobile stampings
		{	3463 Stamped and pressed metal products, except automobile stampings
		{	3464 Powder metallurgy
		{	3543 Cutting tools, jigs, fixtures, etc.
		{	3575 Coin operated machines
		{	3579 Office and store machines, n.e.c.
		{	3998 pt Models and patterns, except paper patterns (Industrial Patterns)
		{	See also 3999
		{	3711 Motor vehicles
		{	3712 Passenger car bodies
		{	3714 Motor vehicle parts and accessories
		{	3998 pt Models and patterns (except industrial) See also 3594
		{	3999 Miscellaneous products, n.e.c.

<sup>1</sup>Represents 1954 Census combinations and rearrangements rather than amended Standard Industrial Classifications.<sup>2</sup>Industry 2296 has been combined with 2299 in the revised Standard Industrial Classification. For comparability with 1947, the Census also included Industry 2297 in the combination.



## APPENDIX B

App. B-3

Table B.--DERIVATION OF 1947 CENSUS OF MANUFACTURES INDUSTRY DATA COMPARABLE WITH DATA FOR 1954 INDUSTRY CLASSIFICATIONS

Industry code		Industry title	1954		1947	
1954	1947		All employees, number <sup>1</sup> (1,000)	Value added by manufacture (\$1,000)	All employees, number <sup>1</sup> (1,000)	Value added by manufacture (\$1,000)
MAJOR GROUP 20--FOOD AND KINDRED PRODUCTS						
2013	.....	Prepared meats (including manufacturers' wholesale branches)..	n.a.	377,981	44.5	234,758
2013		Prepared meats (including manufacturers' wholesale branches).....	...	...	39.0	221,855
2825*		Synthetic fibers (synthetic sausage casings). See also 2825.....	...	...	5.5	12,903
2021	.....	Creamery butter.....	21.0	136,953	27.1	138,217
2021		Creamery butter.....	...	...	20.6	107,248
n.m.		Creamery butter and fluid milk processors.....	...	...	6.5	30,969
2022	.....	Natural cheese.....	13.9	88,716	12.8	65,062
2022		Natural cheese.....	...	...	12.3	63,257
n.m.		Natural cheese and fluid milk processors.....	...	...	.5	1,805
2023	.....	Concentrated milk.....	13.3	170,566	18.3	156,739
2023		Concentrated milk.....	...	...	1.0	148,771
n.m.		Concentrated and fluid milk processors.....	...	...	17.3	7,968
2024	.....	Ice cream and ices.....	36.5	327,898	46.7	279,724
2024		Ice cream and ices.....	...	...	1.2	228,049
n.m.		Ice cream, ices, and fluid milk processors.....	...	...	45.5	51,675
2025	.....	Special dairy products.....	7.3	56,965	7.5	48,429
2025		Special dairy products.....	...	...	7.4	47,843
n.m.		Special dairy products and fluid milk processors.....	...	...	.1	586
2026	n.m.	Fluid milk processors.....	14.1	98,940	n.a.	n.a.
2027	n.m.	Fluid milk processors and other dairy products.....	177.3	1,376,698	n.a.	n.a.
2036	.....	Packaged seafood.....	12.2	45,657	( <sup>2</sup> )	( <sup>2</sup> )
2037*		Frozen foods (frozen seafoods). See also 2037.....	...	...	n.a.	n.a.
n.m.		Fresh packaged seafood.....	...	...	n.a.	n.a.
2037	.....	Frozen fruits and vegetables.....	21.4	148,517	( <sup>2</sup> )	( <sup>2</sup> )
2037*		Frozen foods (excluding frozen seafoods). See also 2036..	...	...	n.a.	n.a.
2099	.....	Food preparations, n.e.c.....	72.0	806,298	59.6	392,623
2090 <sup>3</sup>		Liquid, frozen, and dried eggs.....	...	...	9.8	32,209
2096		Vinegar and cider.....	...	...	1.0	3,503
2099		Food preparations, n.e.c.....	...	...	48.8	356,911
MAJOR GROUP 22--TEXTILE MILL PRODUCTS						
2211	.....	Scouring and combing plants.....	7.0	35,084	8.4	36,920
2211*		Scouring and combing plants (excluding wool scouring converters). See also n.m.....	...	...	8.4	36,920
2224	.....	Yarn mills, cotton and silk system.....	85.3	298,833	121.4	446,761
2224		Yarn mills, cotton system.....	...	...	92.3	326,839
2225		Yarn mills, silk system.....	...	...	1.7	5,853
2233*		Cotton broad-woven fabrics (cotton and man-made tire cord and tire fabrics). See also 2233.....	...	...	27.4	114,069
2233	.....	Cotton broad-woven fabrics.....	296.2	1,127,507	330.2	1,448,972
2233*		Cotton broad-woven fabrics (excluding cotton and man-made tire cord and tire fabrics) See also 2224.....	...	...	330.2	1,448,972
2295	.....	Coated fabrics, except rubberized.....	8.5	80,294	8.6	52,491
2295*		Coated fabrics, except rubberized (excluding unsupported film). See also 3971.....	...	...	8.6	52,491
2299	.....	Textile goods, n.e.c.....	9.0	54,115	7.6	32,730
2297		Jute (except felt), and linen goods.....	...	...	5.5	21,644
2299		Textile goods, n.e.c.....	...	...	2.1	11,086
MAJOR GROUP 23--APPAREL AND OTHER FABRICATED TEXTILE PRODUCTS						
2337	.....	Women's suits, coats, and skirts.....	96.0	529,623	82.7	477,360
2335		Women's suits and coats.....	...	...	74.4	438,876
2336		Women's skirts.....	...	...	8.3	38,484
2363	.....	Children's coats.....	14.4	72,601	11.0	50,841
2363*		Children's coats (excluding children's skirts) See also 2369.....	...	...	11.0	50,841

See footnotes at end of table.

Table B.--DERIVATION OF 1947 CENSUS OF MANUFACTURES INDUSTRY DATA COMPARABLE WITH DATA FOR 1954 INDUSTRY CLASSIFICATIONS--Con.

Industry code		Industry title	1954		1947	
1954	1947		All employees, number <sup>1</sup> (1,000)	Value added by manufacture (\$1,000)	All employees, number <sup>1</sup> (1,000)	Value added by manufacture (\$1,000)
MAJOR GROUP 22--TEXTILE MILL PRODUCTS--Continued						
2369	.....	Children's outerwear, n.e.c.....	30.6	121,863	14.8	50,645
2369		Children's outerwear, n.e.c.....	...	...	13.6	44,248
2363*		Children's coats (children's skirts). See also 2363.....	...	...	1.2	6,397
MAJOR GROUP 24--LUMBER AND PRODUCTS, EXCEPT FURNITURE						
2431	.....	Millwork plants.....	68.7	374,518	59.8	266,452
2431*		Millwork plants (excluding retail lumber yards). See also n.m.....	...	...	56.9	253,322
2561*		Window and door screens (wood storm doors and sash). See also 2561.....	...	...	2.9	13,130
MAJOR GROUP 25--FURNITURE AND FIXTURES						
2519	.....	Household furniture, n.e.c.....	1.3	7,815	1.7	7,733
2513		Reed and rattan furniture.....	...	...	.8	3,697
2519		Household furniture, n.e.c.....	...	...	.9	4,041
2532	.....	Professional furniture.....	5.5	38,228	5.2	25,674
2532*		Professional furniture (excluding beauty and barber-shop- equipment). See also 3991.....	...	...	5.2	25,674
2561	.....	Window and door screens.....	4.4	32,630	4.2	19,166
2561*		Window and door screens (excluding wood and metal storm doors and sash). See 2431 and 3442.....	...	...	4.2	19,166
MAJOR GROUP 26--PAPER AND ALLIED PRODUCTS						
2612	.....	Paper and paperboard mills.....	142.2	1,429,659	134.2	947,868
2612*		Paper and board mills (excluding building paper and board mills). See also 2613.....	...	...	134.2	947,868
2613	.....	Building paper and board mills.....	16.4	155,415	13.4	99,007
2612*		Paper and board mills (building paper and board mills). See also 2612.....	...	...	13.4	99,007
MAJOR GROUP 28--CHEMICALS AND ALLIED PRODUCTS						
2811	.....	Sulfuric acid.....	3.8	66,175	3.1	31,097
2819*		Inorganic chemicals, n.e.c. (sulfuric acid). See 2819 and n.m.....	...	...	3.1	31,097
2819	.....	Inorganic chemicals, n.e.c.....	97.0	1,069,335	39.5	280,219
2819*		Inorganic chemicals, n.e.c. (excluding sulfuric acid). See 2811 and n.m.....	...	...	39.5	280,219
2822	.....	Intermediates and organic colors.....	32.7	362,305	33.6	259,771
2829*		Organic chemicals, n.e.c. (intermediates, dyes, color lakes and toners). See also 2829.....	...	...	33.6	259,771
2823	.....	Plastics materials.....	41.1	583,224	28.6	197,558
2823		Plastics materials.....	...	...	28.2	195,869
2825*		Synthetic fibers (cellulose caps, bands and sponges). See also 2825.....	...	...	.4	1,689
2825	.....	Synthetic fibers.....	61.1	717,226	69.7	433,285
2825*		Synthetic fibers (excluding synthetic sausage casings and cellulose caps, bands and sponges). See 2013 and 2823...	...	...	69.7	433,285
2829	.....	Organic chemicals, n.e.c.....	67.5	1,171,165	51.9	456,319
2829*		Organic chemicals, n.e.c. (excluding intermediates, dyes, color lakes and toners). See also 2822.....	...	...	51.9	456,319
2832	.....	Medicinal chemicals, including botanicals.....	11.5	138,877	13.1	119,525
2832		Botanical products.....	...	...	.7	9,009
2833		Medicinal chemicals.....	...	...	12.4	110,516
2863	.....	Gum naval stores.....	.5	2,473	4.6	42,634
2863		Gum naval stores, steam distilled.....	...	...	.6	2,634
(4)		Gum naval stores, fire distilled.....	...	...	(4)	(4)
2889	.....	Animal oils, n.e.c.....	2.3	22,079	2.2	16,849
2885		Marine animal oils.....	...	...	2.0	15,033
2889		Animal oils, n.e.c.....	...	...	.2	1,816

See footnotes at end of table.

Table B.--DERIVATION OF 1947 CENSUS OF MANUFACTURES INDUSTRY DATA COMPARABLE WITH DATA FOR 1954 INDUSTRY CLASSIFICATIONS--Con.

Industry code		Industry title	1954		1947	
1954	1947		All employees, number <sup>1</sup> (1,000)	Value added by manufacture (\$1,000)	All employees, number <sup>1</sup> (1,000)	Value added by manufacture (\$1,000)
		MAJOR GROUP 28--CHEMICALS AND ALLIED PRODUCTS--Continued				
2894	.....	Glue and gelatin.....	6.8	64,771	7.9	66,290
2894	.....	Glue and gelatin.....	...	...	5.3	45,346
2899*	.....	Chemical products, n.e.c. (household adhesives and cements). See also 2899.....	...	...	2.6	20,944
2899	.....	Chemical products, n.e.c.....	21.4	266,627	17.6	159,514
2899*	.....	Chemical products, n.e.c. (excluding adhesives, cements, brake fluids, etc.). See 2894 and 2992.....	...	...	17.6	159,514
		MAJOR GROUP 29--PETROLEUM AND COAL PRODUCTS				
2932	.....	Byproduct coke ovens.....	31.9	371,380	29.7	221,352
2932*	.....	Byproduct coke ovens (excluding byproduct coke ovens owned by Public Utilities). See also n.m.....	...	...	29.7	221,352
2992	.....	Lubricants, n.e.c.....	8.2	85,063	8.0	30,289
2992*	.....	Lubricants, n.e.c. (excluding lubricant wholesalers). See also n.m.....	...	...	6.1	66,725
2899*	.....	Chemical products, n.e.c. (brake fluids, etc.). See also 2899.....	...	...	1.9	13,564
2999	.....	Petroleum and coal products, n.e.c.....	2.0	22,754	1.7	17,354
2991	.....	Fuel briquets and packaged fuel.....	...	...	1.2	9,093
2999	.....	Petroleum and coal products, n.e.c.....	...	...	.5	8,261
		MAJOR GROUP 32--STONE, CLAY, AND GLASS PRODUCTS				
3231	.....	Products of purchased glass.....	21.6	192,644	23.9	129,857
3231*	.....	Products of purchased glass (excluding glass cutters). See also n.m.....	...	...	23.9	129,857
3295	.....	Minerals: ground or treated.....	7.7	89,725	8.9	55,556
3294	.....	Graphite: ground or blended.....	...	...	.9	4,945
3295	.....	Minerals: ground or treated.....	...	...	8.0	50,611
3299	.....	Nonmetallic mineral products, n.e.c.....	4.5	30,340	2.6	13,855
3296	.....	Sand-lime products.....	...	...	.3	1,186
3299	.....	Nonmetallic mineral products, n.e.c.....	...	...	2.3	12,669
		MAJOR GROUP 34--FABRICATED METAL PRODUCTS				
3439	.....	Heating and cooking equipment, n.e.c.....	75.3	587,523	116.8	633,675
3432	.....	Oil burners.....	...	...	5.3	43,894
3439	.....	Heating and cooking apparatus, n.e.c.....	...	...	111.5	589,781
3442	.....	Metal doors, sash, and trim.....	43.3	334,956	23.3	129,366
3442	.....	Metal doors, sash, and trim.....	...	...	21.0	117,246
2561*	.....	Window and door screens (metal storm doors and sash). See also 2561.....	...	...	2.3	12,120
		MAJOR GROUP 35--MACHINERY (EXCEPT ELECTRICAL)				
3544	.....	Special dies and tools.....	77.4	697,004	( <sup>5</sup> )	( <sup>5</sup> )
3543*	.....	Cutting tools, jigs, fixtures, etc. (special dies and tools). See also 3545.....	...	...	n.a.	n.a.
3545	.....	Metalworking machinery attachments.....	44.9	351,607	( <sup>5</sup> )	( <sup>5</sup> )
3543*	.....	Cutting tools, jigs, fixtures, etc. (excluding special dies and tools). See also 3544.....	...	...	n.a.	n.a.
3559	.....	Special-industry machinery, n.e.c.....	47.0	352,943	58.6	294,236
3559*	.....	Special-industry machinery, n.e.c. (excluding industrial patterns and molds). See also 3594.....	...	...	58.6	294,236
3594	.....	Industrial patterns and molds.....	19.9	152,049	9.7	55,954
3559*	.....	Special-industry machinery, n.e.c. (industrial patterns and molds). See also 3559.....	...	...	9.7	55,954
		MAJOR GROUP 36--ELECTRICAL MACHINERY				
3616	.....	Electrical control apparatus.....	79.3	700,477	67.5	358,431
3616*	.....	Electrical control apparatus (excluding domestic automatic controls). See also 3821.....	...	...	67.5	358,431
3631	.....	Insulated wire and cable.....	14.4	110,317	20.3	99,661
3631*	.....	Insulated wire and cable (excluding appliance cords from purchased insulated wire). See also 3699.....	...	...	20.3	99,661

See footnotes at end of table.

Table B.--DERIVATION OF 1947 CENSUS OF MANUFACTURES INDUSTRY DATA COMPARABLE WITH DATA FOR 1954 INDUSTRY CLASSIFICATIONS--Con.

Industry code		Industry title	1954		1947	
1954	1947		All employees, number <sup>1</sup> (1,000)	Value added by manufacture (\$1,000)	All employees, number <sup>1</sup> (1,000)	Value added by manufacture (\$1,000)
3699	.....	Electrical products, n.e.c.....	8.5	60,472	10.3	54,994
	3699	Electrical products, n.e.c.....	...	...	8.7	48,786
	3631*	Insulated wire and cable (appliance cords from purchased insulated wire). See also 3631.....	...	...	1.6	6,208
		MAJOR GROUP 38--INSTRUMENTS AND RELATED PRODUCTS				
3821	.....	Mechanical measuring instruments.....	69.4	542,602	60.5	281,482
	3821	Mechanical measuring instruments.....	...	...	52.4	240,069
	3616*	Electrical control apparatus (domestic automatic controls). See also 3616.....	...	...	8.1	41,413
		MAJOR GROUP 39--MISCELLANEOUS MANUFACTURES				
3971	.....	Plastics products, n.e.c.....	92.0	589,254	58.4	258,917
	3971	Plastics products, n.e.c.....	...	...	57.5	252,069
	2295*	Coated fabrics, except rubberized (unsupported film). See also 2295.....	...	...	.9	6,848
3991	.....	Beauty and barber-shop equipment.....	1.7	11,963	3.2	14,386
	3991	Beauty and barber-shop equipment.....	...	...	2.8	12,594
	2532*	Professional furniture (beauty and barber-shop equipment). See also 2532.....	...	...	.4	1,792
3999	.....	Miscellaneous products, n.e.c.....	20.8	123,805	22.7	102,427
	3998	Models and patterns excluding industrial and paper patterns and molds.....	...	...	1.9	8,573
	3999	Miscellaneous products, n.e.c.....	...	...	20.8	93,854
		ESTABLISHMENTS EXCLUDED FROM SCOPE OF 1954 CENSUS OF MANUFACTURES				
n.m.	.....	Total.....	...	...	9.7	84,568
	2211*	Scouring and combing plants (wool scouring converters)....	...	...	.3	17,246
	2431*	Millwork plants (retail lumber yards).....	...	...	.7	3,077
	2819*	Inorganic chemicals, n.e.c. (mining).....	...	...	.9	11,432
	2932*	Byproduct coke ovens (byproduct coke ovens owned by Public Utilities).....	...	...	5.9	41,635
	2992*	Lubricants, n.e.c. (lubricant wholesalers).....	...	...	.1	2,211
	3231*	Products of purchased glass (glass cutters).....	...	...	.4	3,258
	.....	Other nonmanufacturing establishments.....	...	...	1.4	5,709

\*Denotes part. \n.a. Not available. n.m. Nonmanufacturing. n.e.c. Not elsewhere classified.

<sup>1</sup>The number of employees for 1954 for industries other than 2036, 2037, 2099, 2295, and 2889 of this table are based on employment averages for payroll periods ending nearest the 15th of March, May, August, and November. For industries 2036, 2037, 2099, 2295, and 2889 the number of employees are based on the average on the payroll during pay periods ended nearest the 15th of each of the 12 months. For 1947, the employment figure for all industries represents the average on the payroll during pay periods ended nearest the 15th of each of the 12 months.

<sup>2</sup>Packaged seafood and frozen fruits and vegetables formerly constituted one industry; however, fresh packaged seafood was not included in manufacturing in 1947. 1947 employment and value added for 1954 industries 2036 and 2037 combined (excluding fresh packaged seafood) are 17.4 thousand and \$59,377 thousand, respectively. Total fresh packaged seafood shipped in 1954 amounted to \$53,552 thousand.

<sup>3</sup>Industry 2090 in 1947 was a Census subindustry of 2099.

<sup>4</sup>Fire stills were excluded from the scope of the 1947 Census. In 1947 fire stills accounted for 15 percent of the total value of products; by 1954 practically all of the production was accounted for by steam (central) stills.

<sup>5</sup>Special dies and tools (industry 3544) and metalworking machinery attachments (industry 3545) constituted industry 3543 in 1947. Comparable 1947 employment and value added for industries 3544 and 3545 combined are 95.9 thousand and \$501,995 thousand, respectively.



## Appendix C

### CENSUS REPORT FORMS AND PUNCH CARDS

Approximately 200 different report forms ("standard" forms) were used in collecting information in the 1954 Census of Manufactures. Nearly all of these were variations of Form MC-35U shown on pages App. C-2 thru 10 of this appendix. Such forms were sent to larger manufacturing plants (generally those with six or more employees). Items 1 through 16 are the same on nearly all such forms except for item 9, "Number of Employees by Months," which appears on report forms for a few industries characterized by marked seasonal variations in employment. Items 17 and 18, while similar in general purpose, are different for each industry or group of related industries depending upon the materials used or the products manufactured. Items 19 and 20 are similarly adapted to the special characteristics of individual industries.

Five simplified report forms ("short" forms) were used for smaller establishments, i.e., those with less than six employees. The General Manufactures Form MC-D2, shown on pages App. C-16 thru 19, was sent to small establishments in all but four industry areas: (a) Dairy Products, (b) Logs, Lumber and Other Wood Basic Materials, (c) Printing and Publishing, and (d) Concrete Products; for these groups special short forms were prepared. The general inquiries (items 1-10) included for forms used for the smaller establishments are the same and are considerably abridged in comparison with these items included in the stand-

ard forms sent to larger establishments. The product inquiry on Form MC-D2 requested the manufacturer to report value of shipments for classes of products as described in a Product Class Reference List which was enclosed with the form. Plants in the four selected industry areas, however, received forms with a preprinted list of individual products suitable to the industry. The need for such special forms arose after it was determined that product data for these areas were significantly affected by the output of smaller plants. A preprinted list of materials consumed was also included on the forms for certain of these special industries.

Instructions for preparing the 1954 Census report forms are also shown below except for Form MC-D2 and its four variations. Short form respondents were sent the Product Class Reference List described above with the other instructions appearing on the form itself.

Additional forms used to cover separate central administrative offices and auxiliary units, plants under construction but not in operation during 1954, plants using 20 million or more gallons of water during 1954, etc., are described in Section 9 of the introductory text which appears at the beginning of this Volume.

The basic punch cards used in tabulating the 1954 Census data are shown on pages App. C-20 and 21.

Form Approved: Budget Bureau No. 41-54167

U. S. DEPARTMENT OF COMMERCE—BUREAU OF THE CENSUS									
1954 CENSUS OF MANUFACTURES									
MEASURING AND DISPENSING PUMPS									
FORM MC-35U									
CENSUS USE ONLY									
State	SM/SEA	County	City	City Size	T. E.	V. A.	Industry	C/O	Plant Spec 1
ITEM 1 NAME OF ESTABLISHMENT		Factory, plant, or mill covered by this report:							
ITEM 2 LOCATION OF ESTABLISHMENT		Give actual physical location of this establishment (which may differ from business mailing address). a. Street _____ and number _____ b. City, town, or village _____ c. County _____ d. State _____ e. Is this establishment within the actual legal boundaries of any city or town? _____ Yes <input type="checkbox"/> No <input type="checkbox"/> f. If "Yes," give official name of city or town. (If same as Item 2b, write "same.") _____							
ITEM 3 NATURE OF ACTIVITY		If "No," see enclosed instructions for Item 2. Describe briefly the kind of activity of this establishment:							
ITEM 4 FED. SOCIAL SECURITY EMPLOYER IDENTIFICATION NUMBER		a. Federal Social Security Employer Identification Number. (Enter number as reported on Form 941, Item 10, on latest employer's quarterly tax return under Federal Insurance Contributions Act) _____ b. Number of separate places of business operated under this Employer Identification Number. _____ One <input type="checkbox"/> Two or more <input type="checkbox"/>							

**CONFIDENTIAL**—This report should be returned **within 30 days of its receipt**. This report is required by Act of Congress (13 U. S. C. 131). Your report is confidential and only sworn Census employees will have access to it. It cannot be used for purposes of taxation, investigation or regulation.

(Please correct any errors in name and address)

PLEASE READ ENCLOSED INSTRUCTIONS BEFORE COMPLETING REPORT	
ITEM 5 COMPANY AFFILIATION	a. Is this company (identified by the number given in Item 4a) owned or controlled by another company? _____ Yes <input type="checkbox"/> No <input type="checkbox"/> b. If "Yes," give name and address of owning or controlling company: _____ c. Does this company (identified by the number given in Item 4a) own or control another company? _____ Yes <input type="checkbox"/> No <input type="checkbox"/> Check one: (1) <input type="checkbox"/> Individual proprietor (x) <input type="checkbox"/> Partnership (Specify number of working partners _____) (v) <input type="checkbox"/> Corporation (Do not include any form of cooperative association) (o) <input type="checkbox"/> Cooperative association (corporate or noncorporate producer-cooperatives and cooperative marketing associations) (o) <input type="checkbox"/> Other (Specify) _____
ITEM 6 FORM OF OWNERSHIP	Change in status since December 31, 1953 (Check one): a. <input type="checkbox"/> Owned and operated by you during all of 1954 b. * <input type="checkbox"/> Purchased by you on _____ (date) c. * <input type="checkbox"/> Sold by you on _____ (date) d. <input type="checkbox"/> Did not operate in 1954 (but still owned by you) e. * <input type="checkbox"/> Went out of business (no new owner) on _____ (date) Give name and address of former owner (if box "b" is checked) or purchaser (if box "c" is checked): _____
ITEM 7 CHANGE IN STATUS OR OWNERSHIP OF THIS ESTABLISHMENT SINCE DECEMBER 31, 1953	*Complete report for part of 1954 you operated this plant.

ITEM 8 EMPLOYMENT AND PAYROLLS IN 1954		Class of employee	Number of employees in 1954					Total 1954 payroll (wages, salaries, bonuses, commis- sions, and other remunerations paid in entire year, before deductions) (omit cents)
Pay period ended nearest 15th of—					Average employment (D) (omit cents) (sums by 4)			
March (A)	May (B)		August (C)	November (D)		Sum of Cols. (A) through (D) (E)		
a. Production and related workers	Workers (up through the working foreman level) engaged in fabricating, processing, assembling, inspection, receiving, storage, handling, packing, warehousing, shipping (but not delivering), maintenance, repair, janitorial, watchman services, product development, auxiliary production for plant's own use (e. g., power plant), record keeping, and other services closely associated with these production operations. Exclude supervisory employees above working foreman level.						A1, B1 (F)	A2 (G)
b. Force- account construction workers	Employees on your payroll who are engaged in construction of major additions or alterations to the plant and are utilized as a separate work force. (Workers engaged in regular maintenance and repair operations should be reported in Item 8a, not here).						B2	\$
c. All other employees	Nonproduction personnel of this establishment, including those engaged in the following activities: factory supervision above working foreman level, sales (including driver salesmen), sales delivery (highway truck drivers and their helpers), advertising, credit, collection, installation and servicing of own products, clerical and routine office functions, executive, purchasing, finance, legal, personnel (including cafeteria, medical, etc.), professional, and technical.						B3	\$
d. TOTAL FOR THIS ESTABLISHMENT (Sum of a, b, and c)-----							A3, B4 ↑	A4 ↑
ITEM 9 (Not applicable to this industry)								\$
ITEM 10 MAN-HOURS OF PRODUCTION AND RELATED WORKERS, BY QUARTER		Enter the total number of plant man-hours of production and related workers (as defined in Item 8a) for each calendar quarter (or comparable 13 week period) of 1954. Do not include hours paid for vacations, holidays or sick leave.	1954 Quarterly period—				Man-hours (omit fractions)	Census Use Only
B5 ↑			B6 ↑	B7 ↑	B8 ↑			
January through March.....			A6, C1, G1					
April through June.....			A7, G2					
July through September.....			A8, G3					
October through December.....		A9			TOTAL, 1954.....		A5	
ITEM 11 SUMMARY OF MATERIALS, FUELS, AND ELECTRIC ENERGY; CONTRACT WORK; AND COST OF RESALES DURING 1954		On lines a and c, report the cost of all items actually consumed or put into production in 1954, whether purchased, withdrawn from inventories, or received from other establishments of this company. If your records do not show actual amounts consumed, this may be computed by adding purchases (or receipts) during the year to opening inventory and subtracting closing inventory. Purchase records instead of consumption records may be used for any major material, if purchases closely approximate consumption, and for all minor materials and supply items.  "Cost" refers to amounts actually paid or payable after discounts, and includes freight and other direct charges incurred in acquiring the items. For materials, parts, etc. transferred from other establishments of this company, report the nearest approximation to their commercial cost value.	Item		Cost (omit cents)			
a. Materials, parts, containers, and supplies consumed during 1954. Include consumption of all raw materials, parts and components, containers, and supplies. (Should be the same as total of Item 17)....			C2		\$			
b. Cost of products bought and resold without further manufacture, processing, or assembly in this establishment during 1954.....					\$			
c. Fuels consumed during 1954 (Should be the same as Item 12a, 6).....					\$			
d. Electric energy purchased during 1954 (Should be the same as Item 12b, 1).....					\$			
e. Cost of work done for you by others on your own materials during 1954 (contract work).....					\$			
f. TOTAL (Sum of a, b, c, d, and e).....				\$				



ITEM 12 FUELS AND ELECTRIC ENERGY	Item (A)	Code	Unit of measure (B)	Quantity (C)	Cost (omit cents) (D)
Report quantities in units specified; report total delivered cost, not cost per unit. Check the kinds of fuel used:					
1. Coal: (11) <input type="checkbox"/> Bituminous or lignite (12) <input type="checkbox"/> Pennsylvania anthracite.					
2. Coke.....					
3. Fuel oil: (31) <input type="checkbox"/> Distillate (light) (32) <input type="checkbox"/> Residual (heavy).....					
4. Gas: (41) <input type="checkbox"/> Natural (42) <input type="checkbox"/> Manufactured or mixed.....					
5. Other fuels: <input type="checkbox"/> Gasoline <input type="checkbox"/> Liquefied petroleum gas <input type="checkbox"/> Wood <input type="checkbox"/> Other.....					
6. TOTAL (Sum of lines 1 through 5; should be the same as Item 11c).....					
b. Electric energy during 1954	1. Purchased (Should be the same as Item 11d. *Exclude energy purchased for resale). 2. Generated (gross, less generating-station use) 3. Sold (in "Cost" column, report value of electric energy sold)				
G4	a. Total quantity of water intake in this estab- lishment during entire year 1954 (Check one):				
(1) <input type="checkbox"/> 20 million gallons (2) <input type="checkbox"/> 10 to 20 million (3) <input type="checkbox"/> 1 to 10 million (4) <input type="checkbox"/> Less than 1 million or more per year gallons per year gallons per year gallons per year					
ITEM 13 INDUSTRIAL WATER USE DURING 1954	b. Kind of water used (Check one): (1) <input type="checkbox"/> Fresh water (2) <input type="checkbox"/> Brackish (salt) water from the ocean, ponds, or wells (3) <input type="checkbox"/> Both				
c. Check principal source (1) <input type="checkbox"/> Public water systems (municipally or privately owned) (2) <input type="checkbox"/> Company surface water systems, such as streams or lakes (3) <input type="checkbox"/> Company ground water systems, such as wells or deep springs					
ITEM 14 HORSEPOWER RATING OF POWER EQUIPMENT, AT END OF 1954	The figures should represent total horsepower rating of equipment in use or available for use at end of 1954. Report the horsepower rating indicated on name plates.		Value of inventories		
Kind of power equipment		Total horsepower rating (At end of year)	Kind of inventory	Beginning of 1954 (omit cents) (A)	End of 1954 (omit cents) (B)
a. Internal combustion engines, steam engines and turbines, and other prime movers, except for highway-type equipment:		E6	a. Inventories of finished products.....	F1	F5
1. Driving generators.....		hp.	b. Inventories of work-in-process.....		\$
2. Not driving generators.....		hp.	c. Inventories of materials, supplies, fuel, etc.		\$
b. Electric motors (one horsepower and over).....		hp.	d. TOTAL INVENTORIES (Sum of a, b, and c).....		\$
ITEM 16 CAPITAL EXPENDITURES FOR THIS ESTABLISHMENT DURING 1954 (Exclude expenditures for land)	Expenditures refer to all costs actually incurred during 1954 which are chargeable to the fixed assets accounts of this establishment and which are of the type for which depreciation accounts are ordinarily maintained. Do not include cost of maintenance and repairs charged as current operating expense. During 1954, did you make any expenditures for this establishment of the kind described above? (Check one) <input type="checkbox"/> Yes <input type="checkbox"/> No If "Yes," supply figures:				
Type of capital expenditures (excluding land)			Expenditures (omit cents)		
a. New structures and additions to plant (including major alterations, capitalised repairs and improvements).....			G5		
b. New machinery and new equipment (including capitalised repairs and improvements).....			\$		
c. Expenditures for used plant and used equipment acquired from others.....			\$		
d. TOTAL CAPITAL EXPENDITURES (Sum of a, b, and c).....			\$		



## ITEM 17

SELECTED  
MATERIALS  
CONSUMED  
DURING  
1954

**General.**—This inquiry calls for a breakdown of the cost of all materials and components, parts, containers, and supplies consumed during 1954, as reported in Item 11a, on reverse. Separate figures are required for each material listed below if your consumption of the material during 1954 amounted to \$5,000 or more. The cost of materials, supplies, etc., which are not listed or, if listed, are not reported separately because their value is estimated at less than \$5,000, should be reported on the line for "All other materials and components, parts, containers, and supplies consumed." The total cost in Item 17 should, therefore, agree with Item 11a.

**Consumption of Materials Received From Other Establishments (Col. (D) and Col. (E)).**—Report in these columns the quantities and delivered cost of each of the listed materials actually consumed or put into production during the year, whether purchased, withdrawn from inventories, or received from other establishments of this company.

**Quantity (Col. (D)).**—Report the quantities actually consumed in the unit of measure specified. If you do not maintain actual consumption records, but if purchases closely approximate consumption, your purchase figures may be used in completing the item. However, if for one of the items specifically listed, consumption differs significantly from purchases, please derive consumption figures by adding beginning inventory to

purchases during the year and then subtracting closing inventory. Purchase data may be reported for minor materials and supply items.

**Delivered Cost (Col. (E)).**—Report amounts actually paid or payable after discounts, and include freight and direct charges incurred in acquiring the quantities of the listed materials consumed during 1954. For materials transferred from other establishments of this company, report the nearest approximation to the commercial value of the material.

**Consumption of Materials Produced in This Establishment (Quantity) (Col. (F)).**—Report the quantities of each listed material which were made and consumed in further fabrication or assembly within the same establishment.

**Derived Unit Cost (Col. (E) Divided by Col. (D)).**—This computation is included as an aid to you and the Census Bureau in assuring that this part of your report has been filled out correctly. Please examine the derived unit costs to make sure that the correct unit of measure (Column (C)) has been used and that the quantities and costs entered are consistent. **All Other Materials and Components, Etc. (Line 10).**—This figure may be derived by subtracting the sum of the material costs on lines 1-9 from the total cost of all materials, parts, containers, and supplies consumed during 1954, as reported in Item 11a.

Material (A)	Line No. (B)	Unit of measure (C)	Consumption of materials received from other establishments		Consumption of materials produced in this establishment (quantity) (F)	Derived unit cost (Col. (E) divided by Col. (D))
			Quantity (D)	Delivered cost (omit cents) (E)		
<b>Mill Shapes and Forms (except castings)</b>						
Copper and copper-base alloy		Thousand pounds		\$		\$
Bare wire.....	1 335111					
Insulated wire and cable (report copper content in quantity column).....	2 363111	Thousand pounds		\$		\$
All other copper and copper-base alloy mill shapes and forms.....	3 335119	Thousand pounds		\$		\$
Aluminum and aluminum-base alloy mill shapes and forms (rolled, drawn, and extruded).....	4 335211	Thousand pounds		\$		\$
Iron (gray and malleable).....	5 332011	Short ton		\$		\$
Castings (rough and unfinished, received from foundry)						
Copper and copper-base alloy.....	6 336121	Thousand pounds		\$		\$
Aluminum and aluminum-base alloy.....	7 336111	Thousand pounds		\$		\$
Fractional Horsepower Electric Motors.....	8 361411	Number		\$		\$
Integral Horsepower Electric Motors and Generators.....	9 361431	Number		\$		\$
All Other Materials and Components, Parts, Containers, and Supplies Consumed.....	10 970000			\$		
<b>Total</b> (Sum of lines 1-10; should be the same as Item 11a).....	11			\$		

ITEM 18  
PRODUCTS  
AND  
SERVICES  
OF THIS  
ESTABLISH-  
MENT  
DURING  
1954

*Report separately each product listed; do not combine product lines.*

**Production for All Purposes (Col. (C)).**—Report in this column the total amount of each specified product made in this establishment during 1954, whether sold, transferred, added to inventory, or used in further processing.

**Total Shipments and Interplant Transfers (Col. (D) and Col. (E)).**—Report in these columns the quantity and selling value f. o. b. plant of all products made in this establishment which were physically shipped from this establishment during 1954. Include products shipped on con- signment, whether or not sold at the end of the year. Deduct returned goods.

For value of shipments, report the net selling value f. o. b. plant of your total shipments of each product listed. The reported figures should represent values f. o. b. plant after discounts and allowances and should not include freight charges or excise taxes.

Include products transferred to other establishments of your company (such as other manufacturing plants or separate sales branches). Their "value" should be the nearest approximation to the commercial selling value f. o. b. plant and not the cost of production.

Derived Unit Value (Col. (E) Divided by Col. (D)).—This computation is included as an aid to you and the Census Bureau in assuring that this part of your report has been filled out correctly. Please examine the derived unit values to make sure that the correct unit of measure (Column (B)) has been used and that the quantities and values entered are consistent.

Resales (Line 21).—Report on this line the invoice sales value of products sold in the same condition as purchased, and which are not made part of any products included under "Products Made in This Establishment." (The cost of such resold goods should be reported in Item 11b.)

Production for all purposes (quantity)

Quantity

Value f. o. b. plant (omit cents)

Census product code

Derived unit value divided by Col. (D))

Total shipments and interplant transfers

Line No.

Product

Unit of measure

(B)

(C)

(D)

(E)

(J)

1

Gasoline dispensing pumps  
Filling station type (in columns (C) and (D), report twin pumps as two units)  
Computing.....

Number of units

\$

35860 11

\$

2

Noncomputing.....

Number of units

\$

35860 13

\$

3

Airport fueling units (Report number of meters in col- umns (C) and (D)).....

Number of units

\$

35860 15

\$

4

Lubricating-oil outfits (Includes pump and tank).....

Number of units

\$

35860 21

\$

5

Lubricating-oil pumps (Include barrel pumps).....

Number of units

\$

35860 31

\$

6

Grease pumps.....

Number of units

\$

35860 41

\$

7

Grease guns.....

Number of units

\$

35860 51

\$

8

Other measuring and dispensing pumps (Specify kind)

Number of units

\$

35860 98

\$

9

Number of units

\$

35860 98

\$

10

Air compressors, stationary, 7½ hp. and under (Include automotive type).....

Number of units

\$

35613 11

\$

## APPENDIX C

App. C-7

All Other Products (Specify kind and unit of measure)		11					\$	\$
		12					\$	\$
		13					\$	\$
		14					\$	\$
		15					\$	\$
<b>b. Contract Work</b>	Receipts for work done for others on their own materials (Describe products worked on and kind of work)	16					\$	93000 00
<b>c. Miscellaneous Receipts</b>	Sales of scrap and refuse	17				J1	\$	
	Receipts for repair work	18				J2	\$	
	Receipts for installation (or construction) of products of this establishment	19				J3	\$	
	Receipts for research and developmental work	20				J4	\$	
<b>d. Resales</b>	Sales of products bought and resold without further manufacture, processing, or assembly in this establishment	21				J5	\$	
<b>e. TOTAL (Sum of lines 1-21)</b>		22				J6	\$	J7 For Census Use Only

Form MC-35U				FOR CENSUS USE ONLY								
1954 CENSUS OF MANUFACTURES MEASURING AND DISPENSING PUMPS—Continued				Establishment Identification No.								
Name of establishment (Same as Item 1)				State	SMA SEA	County	City	City size	T. E. V. A.	Industry	C/o	Plant space
ITEM 19	Not applicable to this industry											
ITEM 20 METALWORKING OPERATIONS PERFORMED IN THIS ESTABLISH- MENT DURING 1954	<p>Indicate in column (B) by checking appropriate boxes, whether or not the specified operations were performed in this establishment during 1954. A check should be entered in either the "Yes" box or "No" box for each operation. Where the "Yes" box is checked, show in column (C), (D), or (E) the number of production workers on all shifts usually engaged in the specified operation. If the usual number is less than 20, indicate this by checking either column (C) or (D). If it is 20 or more, enter in column (E) an estimate of the number of production workers usually engaged.</p>											
M		Was this operation performed in this establishment during 1954?	(B)		Number of production workers (on all shifts) usually employed when operated							
			Yes	No	Less than 5	5 to 19	20 and over (Report approximate number)	(C)	(D)	(E)		
(A)												
(1) Foundry (exclude die casting)												
(Check one) <input type="checkbox"/> Ferrous <input type="checkbox"/> Nonferrous <input type="checkbox"/> Both ferrous and nonferrous												
(2) Die casting (nonferrous metal only)												
(3) Forging—presses, hammers, or upsetters (exclude manufacture of nuts, bolts, etc.)												
(4) Electroplating												
(5) Galvanizing and other hot dip coating												
(6) Heat treating or annealing of metals for production purposes												
(7) Automatic screw machine department												



<b>ITEM 21</b> <b>CHECKS TO</b> <b>ASSURE A</b> <b>COMPLETE</b> <b>AND</b> <b>ACCURATE</b> <b>REPORT</b>	(8) Machine shop.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																	
	(9) Tool and die shop (if separate from machine shop) for making jigs, fixtures, dies, and other special tooling.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																	
	(10) Pattern shop (foundry patterns only—metal, wood, etc.).....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																	
	(11) Plate or structural fabrication.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																	
	(12) Stamping, blanking, forming, or drawing.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																
<p>The Census Bureau reviews your report for omissions, inconsistencies, and unusual ratios. To save you future correspondence about these problems, please make the following checks before returning your report:</p> <p>(1) Review the report carefully to see that no items are omitted.</p> <p>(2) Copy the figures requested in Columns I and II below; analyze your results in Column III below.</p> <p>(3) Correct your report for any errors you find; explain unusual figures in "Remarks" section.</p>																																							
	<table border="1"> <thead> <tr> <th>Copy in Column I the figures reported in—</th> <th>Column I</th> <th>Copy in Column II the figures reported in—</th> <th>Column II</th> <th>Divide Column I by Column II; show result in Column III</th> <th>Column III</th> </tr> </thead> <tbody> <tr> <td>Item 8a, Col. (G) (Production worker wages).....</td> <td>\$</td> <td>Item 10, Total (Total man-hours).....</td> <td></td> <td>Average hourly wages per worker.....</td> <td>\$</td> </tr> <tr> <td>Item 10, Total (Total man-hours).....</td> <td></td> <td>Item 8a, Col. (F) (Average production workers).....</td> <td></td> <td>Hours worked per year per worker.....</td> <td></td> </tr> <tr> <td>Item 8d, Col. (G) (Total salaries and wages).....</td> <td>\$</td> <td>Item 8d, Col. (F) (Average total employment).....</td> <td></td> <td>Average annual earnings per employee.....</td> <td>\$</td> </tr> <tr> <td>Item 8d, Col. (G) (Total salaries and wages).....</td> <td>\$</td> <td>Item 18, Total, Col. (E) (Value of shipments).....</td> <td>\$</td> <td>Salaries and wages per dollar of shipments.....</td> <td>\$</td> </tr> <tr> <td>Item 11f (Total cost of materials, etc.).....</td> <td>\$</td> <td>Item 18, Total, Col. (E) (Value of shipments).....</td> <td>\$</td> <td>Materials cost per dollar of shipments.....</td> <td>\$</td> </tr> </tbody> </table>	Copy in Column I the figures reported in—	Column I	Copy in Column II the figures reported in—	Column II	Divide Column I by Column II; show result in Column III	Column III	Item 8a, Col. (G) (Production worker wages).....	\$	Item 10, Total (Total man-hours).....		Average hourly wages per worker.....	\$	Item 10, Total (Total man-hours).....		Item 8a, Col. (F) (Average production workers).....		Hours worked per year per worker.....		Item 8d, Col. (G) (Total salaries and wages).....	\$	Item 8d, Col. (F) (Average total employment).....		Average annual earnings per employee.....	\$	Item 8d, Col. (G) (Total salaries and wages).....	\$	Item 18, Total, Col. (E) (Value of shipments).....	\$	Salaries and wages per dollar of shipments.....	\$	Item 11f (Total cost of materials, etc.).....	\$	Item 18, Total, Col. (E) (Value of shipments).....	\$	Materials cost per dollar of shipments.....	\$	<b>Remarks</b>	
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ITEM 22	Name and address of person who should be contacted if questions arise regarding this report	Telephone No.
ITEM 23 CERTIFICATION	<p>This report is substantially accurate and covers the period from ..... to .....</p> <p>..... Date</p> <p>..... Title</p> <p>..... Signature of authorized person</p>	

## DEPARTMENT OF COMMERCE

## BUREAU OF THE CENSUS

## 1954 CENSUS OF MANUFACTURES

GENERAL INSTRUCTIONS TO MANUFACTURERS  
FOR PREPARING REPORTS

## INTRODUCTION

## A. WHO SHOULD REPORT?

Every concern which receives a form is required to submit a separate census report for each of its manufacturing establishments in the Continental United States, Alaska, and Hawaii. Concerns with more than one

establishment must submit a separate report for each establishment operated during 1954. Your report should be returned to the Census Office shown on the enclosed envelope *within 30 days of its receipt*.

## B. WHAT IS A MANUFACTURING ESTABLISHMENT?

A manufacturing establishment is generally defined as a single physical location where industrial operations are performed; for example, a factory, mill, or plant. Where a single physical location comprises two or more units which are engaged in distinct or separate manufacturing activities, and for which separate records are available or for which substantially accurate reports can be prepared, each such unit shall be treated as a separate establishment. In the preparation of such reports a limited amount of prorating or estimating may be necessary. An establishment is not necessarily identical with the business concern or firm which may consist of one or more establishments. It is also to be distinguished from organizational subunits, departments or divisions within an establishment. Units at different physical locations, even though engaged in the same line of manufacturing,

processing, and assembly, should be reported as separate establishments.

Where agreements were reached by your company with the Bureau of the Census concerning the definition of your manufacturing plants for reporting in the 1947 Census of Manufactures or subsequent Annual Surveys of Manufactures, the same definitions should be used in this Census. (However, it is necessary to prepare a separate report for *each* enclosed manufactures form imprinted with a specific plant name and address.)

If additional report forms are required, please write the Bureau of the Census, indicating the type of activity which is not covered by the form(s) sent you. (NOTE.—If you received a copy of Form NC-X2, use it to request such additional forms.)

## C. WHAT KIND OF ACTIVITIES SHOULD THE ESTABLISHMENT REPORTS COVER?

Each report should cover all the production activities (manufacturing, fabricating, processing, and assembling) *conducted within the establishment*. It should also include activities such as the generation of power for the plant, maintenance of plant and equipment, receiving, shipping, warehousing, storage, research, record keeping, health, safety, cafeteria, and other services, *when carried on at the same physical location by the manufacturing*

*establishment*. Your report should *exclude* sales branches, sales offices, power plants, research laboratories, retail stores, and general administrative offices, *if they are operated as separate establishments*. Separate Census reports should be submitted for each of these establishments. Business concerns operating more than one establishment should refer to the instructions defining an establishment on the company summary form NC-X7.

## D. WHAT PERIOD SHOULD EACH REPORT COVER?

Each report should cover the calendar year 1954. If your book records are not on a calendar year basis, carefully prepared estimates for this period will be accepted. If, however, this procedure will involve you in considerable additional costs, and agreements were reached by your company with the Census Bureau in regard to reporting on a fiscal year basis in the 1947 Census or subsequent Annual Surveys of Manufactures, you may report on a fiscal basis. As in the 1947 Census and in the Annual Surveys of Manufactures, however, all employment,

payroll, and man-hour figures should relate to the *calendar* year rather than the fiscal year.

The dates given in the certification should show the exact period for which this report is made. Thus, if an establishment began to operate or ceased to operate within the year, the dates given will show that only part of a year is covered by the report. Where an establishment was operated during the early part of the year under other management, complete the report only for that part of the year 1954 in which you operated.

### E. HOW SHOULD MULTIPLE ESTABLISHMENT COMPANIES DETERMINE TRANSFER VALUES FOR INDIVIDUAL PRODUCTS AND MATERIALS?

In order to provide accurate information for individual industries, States, and local areas, it is necessary for each establishment of a multiple plant organization to report as though it were operated as an independent manufacturing establishment. For example, where a single company operates a textile mill and also manufactures apparel, the transfer of fabrics from one establishment to the other should be reported at *approximately commercial value* and *not* at the cost of production. This requires that a company operating two or more plants assign to each plant and to the individual products a reasonable proportion of the profits and the overhead costs. The method found by each company to be most convenient will ordinarily be acceptable to the Census Bureau. It is recognized that estimates will often be involved.

If the product section of the form (item 18) calls for "interplant transfers" separately, it means transfers between *manufacturing* plants of your company. Interplant transfers should *not* include transfers to separate selling departments, sales branches, retail stores, export subsidiaries or other distribution channels owned by your company. The products reported at "transfer values" by the shipping plant should be reported by the receiving plant as materials consumed (or inventories of materials, etc.) at the same values, except for the addition of freight and other direct handling charges.

These instructions apply to all establishments for which separate reports are being submitted, including those at the same location as well as those at different locations.

### ITEMS ON THE REPORT FORM

(NOTE.—An entry is required in each item on the form. If the answer is none, enter "none" or "0." If a particular question does not apply to your business, enter "not applicable" or explain briefly in the "Remarks" space.)

**Item 1. Name of Establishment (Factory, Plant, or Mill).**—Enter the name under which the establishment covered by this report does business. If it is one of several establishments doing business under the same name, also give the name or number by which it is distinguished from the other establishments of the same company. For example: "Atlas Steel Co., Centerville Plant." If it is one of several establishments at the same address, it is important that you indicate type of activity; for example, "Acme Textile Co., Third Street Mill Finishing Department."

**Item 2. Location of Establishment.**—Enter the *actual physical location* of your factory, plant, or mill (which may differ from the business address at which mail is received) in Items 2a through 2d. If the establishment is located *within the actual legal boundaries* of any city or town, check "YES" in item 2e and give the *official name* of the city or town in item 2f. (This name is *not necessarily* the same as the post office station name used for the mailing address of the establishment.)

If the establishment is *not* located within the *actual legal boundaries* of any city or town, check "NO" in item 2e and enter in item 2f the name of the township, borough, or similar civil subdivision of the county in which located. If the latter is not known, however, enter in item 2f the rural route or highway upon which the establishment is located and its distance and direction from the nearest city or town (for example, "State Highway No. 26, 10 miles northeast of York"). In the case of mobile operations such as logging or pulpwood operations, give the county in which the *major* activity was carried on.

**Item 3.** (See instructions on Form.)

**Item 4.** (See instructions on Form.)

**Item 5.** (See instructions on Form.)

**Item 6.** (See instructions on Form.)

**Item 7. Change in Status or Ownership of This Establishment Since December 31, 1953.**—If box "d" or box "e" is checked, the following additional information should be supplied in the "Remarks" section. If plant did not operate at any time in 1954 (box "d" has been checked), advise date operation is expected to resume. If "out of business" (box "e" has been checked), state the disposition of the plant, i. e., unoccupied, demolished, dismantled, etc.

**Item 8. Employment and Pay Rolls in 1954. Number of Employees in 1954.**

**Columns (A) through (D).**—Report employees at this establishment who worked or received pay for any part of the pay period (preferably 1 week) ended nearest the 15th of the months specified on the report form. *Include* all persons on paid sick leave, paid holidays, and paid vacation during these pay periods; *exclude* members of armed forces and pensioners carried on your active rolls. *Include* officers, if a corporation; *exclude* proprietor or partners, if an unincorporated concern. (You may follow the definition of employees specified by your State Employment Security Agency.) If employment in any one of these pay periods was abnormally low because of a strike or for some other reason, state the reason therefor and report employment for the nearest normal pay period in the "Remarks" section of the form.

**Columns (E) and (F).**—Add the four employment figures on each line and enter total in column (E); divide this total by FOUR and enter result in column (F), "Average Employment."

Classes of employees on lines 8a, 8b, and 8c are defined as follows:

**a. Production and related workers.**—Workers (up through the working foreman level) engaged in fabricating, processing, assembling, inspection, receiving, storage, handling, packing, warehousing, shipping (but not delivering), maintenance, repair, janitorial, watchman services, product development, auxiliary production for plant's own use (e. g., power plant), record keeping, and other services closely associated with these production opera-



tions. *Exclude* supervisory employees above working foreman level.

*b. Force-account construction workers.*—Employees on your payroll who are engaged in construction of major additions or alterations to the plant and are utilized as a separate work force. (Workers engaged in regular maintenance and repair operations should be reported in item 8a, not here.)

*c. All other employees.*—Nonproduction personnel of this establishment, including those engaged in the following activities: factory supervision above working foreman level, sales (including driver salesmen), sales delivery (highway truck drivers and their helpers), advertising, credit, collection, installation and servicing of own products, clerical and routine office functions, executive, purchasing, finance, legal, personnel (including cafeteria, medical, etc.), professional, and technical.

**Column (G)—Total 1954 Payrolls**—(*Total Wages, Salaries, Bonuses, Commissions, and Other Remuneration Paid in Entire Year 1954, Before Deductions.*)—Report the gross earnings paid in the calendar year 1954 to employees on the payroll of this establishment during 1954, including commissions, dismissal pay, all bonuses, vacation and sick leave pay, and compensation in kind, and prior to such deductions as employees' Social Security contributions, withholding taxes, group insurance, union dues, and savings bonds. *Include* salaries of officers at this establishment, if a corporation; *exclude* payments to proprietor or partners, if an unincorporated concern. *Exclude* payments to members of armed forces and pensioners carried on your active payroll. (You may fol-

low the definition of salaries and wages that is used for calculating the withholding tax.)

**Item 9. Total Number of Employees, by Month.**—*This inquiry will appear on the report forms only for selected industries where there is a significant seasonal pattern, or where an accurate annual employment average cannot be obtained from figures for four specified pay periods (i. e., where a significant difference exists between an employment average based on 4 monthly figures and an average based on 12 monthly figures).*

**Item 10. Man-Hours of Production and Related Workers, by Quarter.**—"Plant man-hours" of production and related workers (as defined in Item 8a) is designed to measure the over-all activity of the plant during each quarter. The requested figures consist of all man-hours worked or paid for, except hours paid for vacations, holidays or sick leave, when the employee was *not* at the plant. *Include* actual overtime hours, not straight-time equivalent hours. If employee elects to work during the vacation period, report only actual hours worked by such employee.

Each quarterly man-hours figure should be a total for the entire quarterly period (either calendar quarter or 13-week period). The "Total 1954" figure should account for *all* man-hours at the plant of production and related workers only for the entire year. Do *not* include man-hours for "force-account construction workers" or for "all other employees." If a payroll period runs from one quarter into the next, distribute the man-hours between the two quarters.

## SPECIAL INSTRUCTIONS FOR ITEMS 11, 12, AND 17

**What To Include in These Items.**—Report total amounts of materials, supplies, semi-finished goods, fuels, etc., actually consumed or put into production during 1954 by your establishment. *This should include only physical goods and not services used or overhead.* Therefore, *exclude* such services as advertising, telephone, telegram and cable, insurance, developmental and research services provided by other establishments, services of engineering, management, marketing and other professional consultants, etc. *Exclude*, in addition, such overhead items as depreciation charges against plant and equipment, rent and rental allowances, interest payments, and royalties and use of patents fees.

In addition to items purchased from other companies, you should be sure to include materials, supplies, fuels, etc., received from other establishments of your company. The figures reported in Items 11a, 11c, 11d, 12, and 17 should cover materials, fuels, etc., which were: (1) put into production, (2) used as operating supplies, (3) used in repair and maintenance, and (4) owned by you but consumed by other companies to make products for your establishment. Products purchased and resold without further manufacture or processing should be included in Item 11b *only*. *Exclude* materials, supplies, machinery, and equipment which were used in the construction of new structures or additions to your plant or new machinery

and equipment, and which are chargeable to fixed assets accounts.

**Definition of Consumption.**—Include items received prior to 1954 if they were consumed during the year, but do not include items received in 1954 if they were not consumed. If your records do not show actual amounts consumed or put into production during the year, but purchases closely approximate consumption, purchase figures may be used in completing Items 11, 12, and 17. This applies especially to minor materials and supply items. If for any major item, however, consumption differs significantly from purchases, consumption should be computed from your records of purchases (receipts) and inventories of materials as follows: Add amounts received during the year to amounts on hand at the beginning of the year and from this total subtract amounts on hand at the end of the year. The resulting figure represents consumption during the year.

**Definition of Cost.**—"Cost" refers to direct charges actually paid or payable for items consumed or put into production during the year. For this reason, it should represent the cost after discounts, and should include freight charges and other direct charges incurred by the establishment in acquiring these materials.

The cost reported for materials, etc., received from other plants of your company or from a central materials

depot (whether at the same or different physical locations) should approximate the commercial values of these materials plus freight and other direct handling charges. Wherever possible, these figures should be checked with the values reported by the plant producing and transferring the goods and should exceed the shipment values reported for the producing plant only by the addition of freight or other direct handling charges involved.

**Item 11a. Materials, Parts, Containers, and Supplies Consumed During 1954.**—Report the total delivered cost of all raw materials, semi-finished goods, parts, components, containers, scrap, and supplies consumed or put into production during 1954 by this establishment. For semi-finished goods, parts, or components produced and later incorporated into finished products at the same plant, include the cost of raw materials used in their manufacture rather than the value of the intermediate products made.

Be sure to include the cost of all materials listed in Item 17 (if applicable) or listed as examples in Item 11a. In addition, include the cost of all parts, containers, and supplies shown in the list of examples below. Be sure to include the cost of any such listed items and *all other materials, parts, etc.*, actually consumed or put into production at this establishment in 1954. This list is shown only as an example rather than as a complete list of types of items which should be included.

#### Parts

Pumps.	Engines.
Wheels.	Gears.
Bearings.	Hardware.

#### Supplies

Bolts, screws, and nuts.  
Drills, tools, dies, jigs, and fixtures which are charged to current expense accounts.  
Welding rods, electrodes, and acetylene.  
Lubricating oils.  
Paint and varnish.  
Findings.  
Soap and cleaning supplies.  
Stationery, stamps, and office supplies.  
First aid and safety supplies.  
Dunnage.  
Purchased water or steam.

#### Containers

Pails.	Boxes and bags.
Drums and barrels.	Crates.
Tubes.	

**Item 11b. Cost of Products Bought and Resold Without Further Manufacture, Processing or Assembly in This Establishment During 1954.**—Give the cost of all products bought and resold in the same condition as when purchased and not made part of another product manufactured by this establishment. (Total invoice sales value of all products thus resold is to be reported in Item 18 on the line for "Resales.")

**Item 11c. Fuels Consumed During 1954.**—Report the total amount actually paid or payable during 1954 for all fuels consumed for heat, power, or the generation of electricity. Include anthracite and bituminous coal, coke, natural and manufactured gas, fuel oil, liquefied petroleum gas, purchased steam, and all other fuels.

**Item 11d. Electric Energy Purchased During 1954.**—Report the total amount actually paid or payable for electric energy purchased during 1954.

**Item 11e. Cost of Work Done for You by Others on Your Own Materials During 1954. (Contract Work.)**—If any work was done by others on materials furnished by your establishment, report the total 1954 payments made for such work, including freight out and in. *Exclude* the cost of materials worked on, which should be included in Item 11a (and in Item 17 if the latter appears on the report form).

**Item 12a. Fuels Consumed During 1954.**—(*This item is omitted from the report forms for establishments in selected Apparel and Printing and Publishing industries.*) Do not include fuels that were produced and used at this establishment for power or heat, for example, coke at coke ovens or fuel oil at petroleum refineries. Include in Item 17, fuel used as raw materials, for example, crude petroleum, coal used in making coke, and gas used in making carbon black.

**Item 12a, 3. Fuel Oil.**—Under "Distillate (light)" fuel oil include Grade Nos. 1 through 4 and P. S. 100 and 200. Under "Residual (heavy)" fuel oil include Grade Nos. 5 and 6 and P. S. 300 and 400. If nearly all of the fuel oil used was of one type, check only the principal type.

**Item 12b. Electric Energy During 1954.**—(*Establishments in selected Apparel and Printing and Publishing industries will be required to report in this item only the number of kilowatt hours of electric energy purchased, (the cost of this energy being reported in Item 11d.)*)

#### SPECIAL INSTRUCTIONS FOR CENTRAL POWERPLANTS SERVING TWO OR MORE ESTABLISHMENTS

If a central power plant is identified as a separate establishment for Census reporting purposes, it should be reported on the "Administrative Office and Auxiliary Establishments" Form NC-X6 and the supplemental power plant form, MC-D10. If such a separate report is made for the power plant, the reports for the manufacturing establishments should show all electric energy used under "Purchased" (including electric energy furnished by the central power plant).

If the central power plant is not reported as a separate

unit, all electric energy generated by this power plant should be shown on the report for the establishment to which the power plant is attached, or to which it furnishes the greater quantity of electric energy. All electric energy generated but not used at this manufacturing establishment (including transfers to other establishments of the same company) should be reported as electric energy sold. Such electric energy used by other establishments of your company should be shown in their reports as purchased electric energy.

**Item 13. Industrial Water Use During 1954.**—(See instructions on form.) *A selected group of establishments, consisting mainly of those consuming large quantities of water, will be required to supply the following additional detail on water consumed during 1954: total intake during the year distributed by type of use; quantity discharged; quantity recirculated; and quantity treated.*

**Item 14. Horsepower Rating of Power Equipment at End of 1954.**—Include all engines and turbines, such as internal combustion engines (Diesel, gas, gasoline, etc.), steam engines and turbines, hydroturbines, water wheels, and other prime movers. Include both owned and rented equipment for use at this establishment.

Report internal combustion engines and electric motors (1 hp. and over) in use, or available for use, at the plant, including those driving machinery, such as machine tools, compressors, presses, bottling machines, saws, hoists, etc. Include emergency or standby equipment and equipment temporarily idle because in need of repairs; exclude only junk. Both stationary and mobile equipment, except highway-type vehicles, should be included.

In reporting prime movers for electric generators, if the equipment is rated only on the generator, compute the horsepower rating (hp.) of the prime mover by multiplying the kilowatt rating (kw.) by 1.34. If more than one rating is shown on the name plate for an internal combustion engine, report the brake horsepower if available.

**Item 15. Inventories of This Establishment.**—(*This item is omitted from the report forms for the Printing and Publishing industries.*)

Where a company operates more than one establishment (i. e., plant, sales branch, retail stores, etc.) the inventories held by each establishment should be included in the establishment's Census report. The balance of the inventories owned by the company but not included in any of the establishment reports (for example, inventories in transit, in separate company or public warehouses, etc.) should be included in the "Administrative Office and Auxiliary Establishments" Form NC-X6. *Inventories should be reported at approximate current costs, if feasible; otherwise at book values.*

**Item 16. Capital Expenditures for This Establishment During 1954 (Exclude expenditures for land).**—Capital

expenditures cover: New structures and additions (including major alterations, capitalized repairs and improvements) to your plant (whether on contract or by your own forces); new machinery and new equipment; capitalized repairs and improvements to your existing machinery and equipment; and "used" plant and equipment acquired from others. Such expenditures during 1954 may be determined by the following computation: Additions completed during the year, *plus* construction-in-progress at the end of the year, *minus* construction-in-progress at the beginning of the year.

**Item 16a. New Structures and Additions to Plant.**—Report total expenditures during 1954 for new construction, major alterations, capitalized repairs, and improvements of buildings (including all new elevators, cranes, heating and ventilating equipment, essentially a part of the buildings), other fixed structures (such as blast furnaces, brick kilns, fractionating towers, shipways, and similar types of structures), and site improvements (such as roads, docks, tracks, parking lots, fences, utilities, etc.).

**Item 16b. New Machinery and New Equipment.**—Report total expenditures at this establishment for new production machinery and equipment and other new machinery and equipment. Include new machinery and equipment purchased for replacement purposes, as well as for additions to capacity. Include the value of improvements and capitalized repairs to machinery and equipment. Include all new motors, lathes, punch presses and similar machinery and equipment for use in production, as well as all new office machines and fixtures, furniture, cafeteria and dressing room furnishings, automobiles and trucks and other similar equipment.

**Item 16c. Expenditures for Used Plant and Used Equipment Acquired From Others.**—Report total expenditures at this establishment for old or existing plant and for second-hand equipment acquired from others (including the U. S. Government).

**Items 17, 18, 19, and 20.**—(See instructions on form. For Item 17, also see "Special Instructions for Items 11, 12, and 17" above.)



Form <b>D2</b> MC	U. S. DEPARTMENT OF COMMERCE—BUREAU OF THE CENSUS  <b>1954 CENSUS OF MANUFACTURES</b>  <b>GENERAL MANUFACTURES FORM</b>  <b>FORM MC-D2</b>									
CONFIDENTIAL—This report should be returned <b>within 30 days</b> of its receipt. This report is required by Act of Congress (13 U. S. C. 131). Your report is confidential and only sworn Census employees will have access to it. It cannot be used for purposes of taxation, investigation or regulation.										
(Please correct any errors in name and address)										
<b>FOR CENSUS USE ONLY</b>										
State	SMA SEA	County	City	City size	T. E. V. A.	Industry	C/O	Plant Spec'l		
<b>ITEM 1</b> NAME OF ESTABLISHMENT  Factory, plant, or mill covered by this report:										
<b>ITEM 2</b> LOCATION OF ESTABLISHMENT  Give <b>actual physical location</b> of this establishment (which may differ from business mailing address).										
a. Street and Number _____ b. City, town, or village _____ c. County _____ d. State _____ e. Is this establishment <b>within the actual legal boundaries of any city or town?</b> ..... <input type="checkbox"/> Yes <input type="checkbox"/> No f. If "Yes," give <b>official</b> name of city or town (If same as Item 2-b, write "same").										
If "No," enter in Item 2f the name of township, borough, or similar civil subdivision of county in which located. If latter is not known, enter rural route or highway upon which located; give <b>distance</b> and <b>direction</b> from nearest city or town.										
<b>ITEM 3</b> FED. SOCIAL SECURITY EMPLOYER IDENTIFICATION NUMBER  a. <b>Federal Social Security Employer Identification Number.</b> (Enter number as reported on Form 941, Item 10, on latest employer's quarterly tax return under Federal Insurance Contributions Act) ..... b. Number of separate places of business operated under this Employer Identification Number..... <input type="checkbox"/> One <input type="checkbox"/> Two or more.										



<b>ITEM 4</b> <b>COMPANY AFFILIATION</b> a. Is this company (identified by the number given in Item 3-a) owned or controlled by another company? <input type="checkbox"/> Yes <input type="checkbox"/> No b. If "Yes," give name and address of owning or controlling company: _____ c. Does this company (identified by the number given in Item 3-a) own or control another company? <input type="checkbox"/> Yes <input type="checkbox"/> No	<b>ITEM 5</b> <b>FORM OF OWNERSHIP</b> Check one: <input type="checkbox"/> Individual proprietor <input type="checkbox"/> Partnership (Specify number of working partners _____) <input type="checkbox"/> Corporation (Do not include any form of cooperative association) <input type="checkbox"/> Cooperative association (corporate or noncorporate producer-cooperatives and cooperative marketing associations) <input type="checkbox"/> Other (Specify) _____	XXX3 BXXXX4	March	May	August	November
<b>ITEM 6</b> <b>NUMBER OF EMPLOYEES</b>			B5	B6	B7	B8
<b>ITEM 7</b> <b>TOTAL 1954 PAYROLLS</b>	Total number of employees during the pay period ended nearest the 15th of the following months in 1954. (Exclude proprietor or partners, if an unincorporated concern. You may follow the definition of employees specified by your State Employment Security Agency.)					
<b>ITEM 8</b> <b>COST OF MATERIALS, FUELS, ELECTRICITY, ETC.</b>	Total 1954 payrolls: wages, salaries, bonuses, commissions and other remunerations paid in entire year 1954, before deductions. (Exclude payments to proprietor or partners, if an unincorporated firm. You may follow the definition of salaries and wages that is used for calculating the withholding tax.)					Amount (Omit cents) \$
<b>ITEM 9</b> <b>INVENTORIES OF THIS ESTABLISHMENT</b>	a. Cost of materials, parts, components, supplies, containers, fuel and electric energy consumed during 1954	b. Cost of products bought and resold without further manufacture, processing, or assembly in this establishment during 1954	c. Cost of work done for you by others on your own materials (contract work) during 1954	(Report value of all inventories of this establishment, including finished products, work-in-process, materials, supplies, fuel, etc. Do not include goods held by you, but owned by others.)	a. Beginning of 1954 inventories	b. End of 1954 inventories
<b>ITEM 10</b> <b>CAPITAL EXPENDITURES DURING 1954</b>	(Include expenditures which are chargeable to fixed assets accounts for which depreciation accounts are maintained; exclude used plant and equipment acquired from others.)	Capital expenditures during 1954 for new construction, new machinery, and new equipment (include major alterations and capitalized repairs; exclude land)				Value (Omit cents) \$
AX6 SX7	A7 SX8	FOR CENSUS USE ONLY				A9

ITEM 11 NATURE OF ACTIVITY	Describe briefly the kind of activity of this establishment. Cover all activities, both manufacturing and nonmanufacturing. For manufactured products, indicate process of manufacture, materials, and types of products. Examples: "bake bread and rolls"; "bottle carbonated soft drinks"; "cut and sew ladies' dresses"; "manufacture millwork products and sell lumber"; "machine castings."					
ITEM 12 PRODUCTS AND SERVICES OF THIS ESTABLISH- MENT DURING 1954	Enter below on line 10 the total receipts from products shipped or services sold by this establishment during 1954. Account for all the receipts of this establishment. Examine the enclosed 1954 product class reference list and note the product classes you shipped in 1954. For each class, enter in Column (J) the code number on the reference list. Enter in Column (E) the 1954 value of shipments of such products made in this plant. On the same line, in Column (A), describe the products included in that class. (Do not include on a single line the value for products which are requested separately.)					
	Description of products (A)	K Line No. (C)	(D)	1954 Value of shipments (U. S. plant; unit cents) (E)	Product class code number (see 1954 product class reference list) (J)	Cen- sus Use Only
a. Products made in this establish- ment		1	\$			99
		2	\$			99
		3	\$			99
		4	\$			99
		5	\$			99
		6	\$			99
		6a	\$			99
		6b	\$			99
b. Miscellaneous Receipts	Receipts for work done for others on their own materials (contract work). (Describe products worked on and kind of work):	7	\$		90000	99
c. Resales	Receipts for repair work, installation and construction of own products, and sale of scrap and refuse. Sales of products bought and resold without further manufacture, processing, or assembly in this establishment.	8 9	\$ JX5 \$			
d. TOTAL (Sum of lines 1-9)		10	\$			

		J7		J8	
ITEM 13 CHECKS TO ASSURE A COMPLETE AND ACCURATE REPORT	The Census Bureau reviews your report for omissions, inconsistencies, and unusual ratios. To save you future correspondence about these problems, please make the following checks before returning your report: (1) Review the report carefully to see that no items are omitted. (2) Copy the figures requested in Columns I and II below; analyze your results in Column III below. (3) Correct your report for any errors you find; explain unusual figures in "Remarks" section.				
	Copy in Column I the figures reported in—	Column I	Copy in Column II the figures reported in—	Column II	Divide Column I by Column II; show result in Column III
	Item 7 (Total 1954 payrolls)	\$	Item 12d, Col. (E) (Value of shipments)	\$	Payrolls per dollar of shipments
Item 8a plus 8b plus 8c (Total cost of materials, etc.)	\$	Item 12d, Col. (E) (Value of shipments)	\$	Materials cost per dollar of shipments	
Remarks					
ITEM 14	Name and address of person who should be contacted if questions arise regarding this report				Telephone No.
ITEM 15 CERTIFICATION	This report is substantially accurate and covers the period from ..... to ..... <div style="display: flex; justify-content: space-between;"> <div>..... Date</div> <div>..... Title</div> </div>				

[illegible]



Card G

[illegible]

Card H

GEOGRAPHIC CODES										PLANT IDENTIFICATION										MATERIALS										MULTIPLE USE COLUMNS									
STATE		SM/FAIR		COUNTY		CITY		1954 INDUSTRIAL		PLANT CLASS		PLANT IDENTIFICATION		LAND TYPE		MATERIAL A		MATERIAL B		MATERIAL C		MATERIAL D		MATERIAL E		MATERIAL F		MATERIAL G		MATERIAL H		MATERIAL I		MATERIAL J					
01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36				
01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36				

Card J

[illegible]

Card K

[illegible]

Card L

GEOGRAPHIC CODES												PLANT IDENTIFICATION	LAND TYPE	TOTAL EMPLOYMENT - PERIOD ENDED NEAREST 15TH																																																																																					
STATE	SM/SEA	COUNTY	CITY	TRACT	VA STATE CODE	1954 INDUSTRY	SAMPLE CLASS	PLANT IDENTIFICATION	LAND TYPE	FIELD 2	FIELD 3	FIELD 4	FIELD 5	FIELD 6	FIELD 7	FIELD 8	FIELD 9	FIELD 10	FIELD 11	FIELD 12																																																																															
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	00

Card M

[illegible]



## Appendix D

### PROVISIONS OF LAW RELATING TO 1954 CENSUS OF MANUFACTURES

(From Title 13 United States Code)

SECTION 131. The Secretary shall take, compile, and publish censuses of manufactures, of mineral industries, and of other businesses, including the distributive trades, service establishments, and transportation (exclusive of means of transportation for which statistics are required by law to be filed with, and are compiled and published by, a designated regulatory body), in the year 1954 and every fifth year thereafter, and each such census shall relate to the year immediately preceding the taking thereof: Provided, That the censuses of manufactures, of mineral industries, and of other businesses, including the distributive trades and service establishments, directed to be taken in the year 1954 relating to the year 1953, shall be taken instead in the year 1955 relating to year 1954. The censuses provided for in this section shall include the United States and its Territories and such Possessions as the Secretary may determine.

SECTION 224. Whoever, being the owner, official, agent, person in charge, or assistant to the person in charge, of any company, business, institution, establishment, religious body, or organization of any nature whatsoever, neglects or refuses, when requested by the Secretary or other authorized officer or employee of the Department of Commerce or bureau or agency thereof, whether such request be made by registered mail, by telegraph, by visiting representative, or by one or more of these methods, to answer completely and correctly to the best of his knowledge

all questions relating to his company, business, institution, establishment, religious body, or other organization, or to records or statistics in his official custody, contained on any census or other schedule prepared and submitted to him under the authority of this title, shall be fined not more than \$500 or imprisoned not more than sixty days, or both; and if he willfully gives a false answer to any such question, he shall be fined not more than \$10,000 or imprisoned not more than one year, or both.

SECTION 9. (a) Neither the Secretary, nor any other officer or employee of the Department of Commerce or bureau or agency thereof, may . . .

(1) use the information furnished under the provisions of this title for any purpose other than the statistical purposes for which it is supplied; or

(2) make any publication whereby the data furnished by any particular establishment or individual under this title can be identified; or

(3) permit anyone other than the sworn officers and employees of the Department or bureau or agency thereof to examine the individual reports.

App. D-1





# Appendix E

## Alphabetic Index of Manufactured Products

This index is designed primarily to assist the user in finding the numeric code for manufactured products and locating data for specific products in Table 6A "Quantity and Value of Products Shipped." Included in this index are approximately 7,000 individual product lines listed on the 1954 Census of Manufactures report forms as well as alternate descriptions of some of these lines and listings of items included in "all other" categories. Accordingly, data do not appear for every alphabetic entry in this index; conversely, Table 6A may contain greater detail by size, type of material, etc., than is shown in this index for particular items. Where a product line appears in more than one Table 6A, the page numbers are shown for each Table 6A.

Census code classifications are based on the Standard Industrial Classification Manual issued by the Bureau of the Budget; the Census expansion of 4-digit classifications to 5 and 7 digits is shown in Table 6A.

Product	Code	Page	Product	Code	Page
<b>A</b>			<b>Aircraft—Continued</b>		
Abrasive paper stock.....	2612471	26A-13	Navigation instruments.....	3811198	38A-15
Abrasive points; wheels; disks, dental	3843061	38A-16	Landing gear.....	37290	37B-11
Abrasives; metallic; nonmetallic.....	3291111-298	32E-13	Parts, n.e.c.....	37290	37B-11
Absorbent cotton, sterilized.....	3842221	38A-15	Propellers, complete.....	3723011	37B-11
Accordions and parts.....	3939098	39B-13	Air washers.....	3564031	35D-22
Account books, other than sales books.	2782011	27B-16	Alarm and signalling systems, elec-		
Accounting machines.....	3571011	35E-8	tric.....	3669211-398	36C-14
Acetate, cellulose (plastics).....	2823111-25	28B-16	Albums and scrap books.....	2782031	27B-16
Acetate yarn.....	2825111-98	28B-18	Alcohol:		
Acetic acid, natural.....	2861011	28F-12	Ethyl: industrial.....	2829111-51	28B-16
Acetic acid, synthetic.....	2829311	28B-16	Methyl: natural.....	2861021-25	28F-12
Acetylene.....	28962--	28F-19	Grain (for beverage purposes)....	2085111-49	20G-12
Acetylene welding and cutting appara-			Alcoholic beverages (see specific		
tus.....	3542711	35B-14	kind)		
Acid (see also specific kind):			Ale.....	2082113,41,	20G-11
Acetic (synthetic); lactic;tartaric	2829311	28B-16		63	
Fatty.....	2887011-98	28G-15	Alfalfa meal.....	2042431-35	20D-13
Inorganic, except nitric and sul-			Alkalies.....	2812231-481	28A-11
furic.....	2819311-98	28A-12	Alkaloids and salts, medicinal (bulk		
Nitric.....	2819111	28A-11	uncompounded).....	2833211-19	28C-9
Organic, natural.....	2829651	28B-16	Alloys (see also specific kind).....	3341111-598	33B-11
Organic, synthetic.....	2829631	28B-16	Aluminum—		
Perchloric.....	2819371	28A-12	Base alloys.....	3341111	33B-11
Phosphoric.....	2819381-85	28A-12	Castings.....	3361011-19	33C-12
Sulfuric.....	2811011-71	28A-11	Compounds, chemical.....	2819411-87	28A-12,
Tannic, natural.....	2829651	28B-16		13	
Activated carbon.....	2819724-27	28A-14	Foil, converted.....	3497021-49	34F-16
Acyclic chemicals, miscellaneous.....	2829311	28B-16	Foil, plain.....	3497011-19	34F-16
Adding machines.....	3571021-27	35E-8	Refined, unalloyed.....	3334011	33B-11,
Additives, ferro-alloy.....	3313011	33A-14		12	
Addressing machines.....	35790	35E-9	Rolling and drawing, except wire..	3352111-271	33C-10
Adhesive--			Alums.....	2819481-87	28A-13
Plaster.....	3842255	38A-16	Ammeters.....	3613315,31,	36A-16
Tape, cellophane.....	2641451	26B-16		85	
Tape, pressure sensitive, except			Ammonia: anhydrous; aqua; liquor....	2819131-33	28A-11
rubber.....	2614411-71	26B-16	Ammonia (coke-oven).....	2932311	29A-15
Tape, surgical.....	3842255	38A-16	Ammonia, household.....	2899351	28B-22
Adhesives, except sizes.....	2894111-89	28B-19	Ammonium compounds.....	2819141-59	28A-12
Adhesives, synthetic resin.....	2823515,21,	28B-17	Ammunition boxes; metal.....	3499111-211	34F-17
	37		Ammunition; explosives, loading ma-		
Adobe brick.....	3259098	32B-14	chinery and equipment.....	3559611	35C-15
Advertising sign displays and novelties	3993231-311	39E-15	Amplifiers, radio or public address..	3661661	36C-13
Aerosols:			Amusement machines, coin-operated..	3575211-98	35E-9
Non-personal deodorants.....	2899331	28B-21	Analgesics.....	2834612-19	28C-11
Pest control.....	2899141	28B-21	Andirons.....	3429552	34A-15
Shaving preparations.....	2841335	28D-10,	Anesthesia apparatus.....	3841098	38A-15
		23B-18	Anesthetics (excluding topical prepa-		
Aggregate, exfoliated vermiculite....	3299111-98	32E-15	rations and gases).....	2834611	28C-11
Aggregate, lightweight, except vermic-			Animal dips.....	2899161	28B-21
ulite.....	3295111	32E-15	Animal feeds, prepared.....	2042111-498	20D-12,
Agricultural—				13	
Edged hand tools.....	3422011	34A-13	Animal oils.....	2889111-398	28G-15,
Hand tools, except edged.....	3423241	34A-13		16	
Insecticides and fungicides.....	2897011-85	28B-20	Anklets (seamless).....	2252331-37	22C-17
Machinery (except tractors).....	3522111-998	35A-18-	Anode copper.....	3331111	33B-11,
		24		12	
Organic chemicals, except prepara-			Ant poisons.....	2899111	28B-21
tions.....	2829511	28B-16	Antacids, pharmaceutical preparations	2834411-15	28C-10
Air and gas compressors, except re-			Antennas, complete units.....	3661479,571,	36C-12,
frigeration compressors.....	3561311-51	35D-19		98	13
Air brushes, artists'.....	3954011	39C-16	Antibiotic pharmaceutical prepara-		
Air conditioning equipment.....	3585701-98	35F-16,	tions (human use).....	2834211-67	28C-10
		17	Antibiotics (bulk, uncompounded)....	2833231-39	28B-9
			Antifreeze preparations, automobile..	2899313-15	28B-21
			Antihistamines, pharmaceutical prepa-		
Aircraft—			rations.....	2834621-23	28C-11
Complete.....	3721111-355	37B-10	Antimonial lead.....	3341311	33B-11,
Engines.....	3722111-98	37B-8		12	
Engine instruments.....	3821111	38A-15	Antimony compounds, chemical.....	2819790	28A-16
Flight instruments and automatic			Antimony, unalloyed: refined.....	33393	33B-11
pilots.....	3811111	38A-15	Antiseptics, medicinal.....	2834625-29	28C-11
Hardware.....	3429131	34A-14			

Product	Code	Page	Product	Code	Page
Antitoxins and antitoxic serums.....	2831012	28C-9	<b>B</b>		
Apparel (see also specific kind):			Babassu oil.....	2884061-65	28G-14
Outerwear, of knit fabric.....	2253---	22C-18, 19,23B- 24,26	Babbitt metal, lead-base.....	3341331	33B-11
Play garments, women's.....	2339011-61	23C-21	Babbitt metal, tin-base.....	3341335	33B-11
Underwear, of knit fabric.....	2341131-289	23D-21, 22	Baby carriages.....	3943011	39B-13
Washable service, men's.....	2329157	23B-26	Baby—		
Washable service, women's; misses..	2334215-37	23C-20	Foods, canned.....	2033611-98	20C-23
Work clothing, n.e.c.....	2329111-157	23B-26	Oils.....	2893416	28H-18
Appliances, electrical.....	3621111-611	36B-9, 10	Pants, plastic and rubberized....	2385071	23E-19
Appliance wire and cord.....	3699321-29	36D-11	Pants, rubber.....	3099553	30A-14
Aprons, household.....	2334215	23C-20	Bacon, canned.....	2013311	20A-14
Aprons, rubberized or plastic.....	2385077-78	23E-19	Bacon, except canned.....	2013141	20A-12
Arctic, rubber and cloth.....	3021041-45	30A-12	Bacteriological materials.....	2831051-59	28C-9
Arc-welding equipment.....	3617111-81, 211-51	36A-19	Badges, made from fabric.....	2399051	23F-16
Arm bands, elastic.....	2383031-51	23E-18	Badges, metal.....	3999311	39E-15
Arms, small, nonmilitary.....	1951231-81	39E-15	Bagasse.....	2061261	20F-10
Arsenic compounds, including white arsenic.....	2819790	28A-16	Bagging, jute (for baling cotton)...	2297151	22F-13
Arsenical insecticides and fungicides.	2897011-019	28H-20	Bags:		
Arsenical preparations (weed killers).	2899211	28H-21	Canvas.....	2393011	23F-16
Art glassware, hand-made, pressed or blown.....	3229033,37	32A-10	Cellophane.....	2661261	26B-16
Art glassware, machine made.....	3229017	32A-10	Grocers and variety.....	2661111	26B-16
Art goods, stamped; embroidering....	2396051	23F-16	Foil or foil backed paper.....	2661251	26B-16
Artificial flowers, except glass.....	3962011	39C-16	Laundry and wardrobe.....	2392481	23F-16
Artists' brushes, except air brushes..	3981311	39D-18	Luggage.....	3161011-98	31B-11
Artists' materials.....	3954011	39C-16	Paper.....	2661111-398	26B-16
Asbestos:			Plastic.....	2661271-98	26B-16
Brake linings.....	3292211-15	32E-14	Punching.....	3949098	39B-14
Cement siding and shingles.....	3292411-51	32E-14	Rubber.....	3099471	30A-14
Gaskets.....	3293211	32E-14	Sleeping.....	2399031	23F-16
Insulations.....	3293111-98	32E-14	Textile, except laundry and ward- robe.....	2393011-98	23F-16
Millboard.....	3292651	32E-14	Bait, artificial fishing.....	3949098	39B-14
Packing.....	3293311-98	32E-14	Bakery machinery.....	3551211-98	35C-12
Paper and asbestos filled paper....	2613131	26A-16	Bakery products.....	2051111-	20E-13-
Pipe, conduit and duct.....	3292611	32E-14		2052098	15
Textiles.....	3292111-98	32E-14	Baking powder.....	2091111-15	20H-15
Ash cans, metal, stamped.....	3463311-98	34D-13	Balances.....	3576011-81	35E-8
Asphalt.....	2911711-51	29A-14	Bale ties, wire.....	3489521	33D-17, 34E-13
Asphalt and tar paving materials, liquid.....	2951011-15	29A-15	Baler twine.....	2298133	22F-13
Asphalt and tar paving mixtures and blocks.....	2951051	29A-15	Balers, stationary (hay; straw)....	3522671	35A-21
Asphalt floor tile.....	3292311	32E-14	Ball and roller bearing components...	3593411-51	35C-12
Asphalt roofing and siding.....	2952111-35	29A-15	Ball bearings, complete.....	3593111-51	35C-11
Asphalt roof cement, solid.....	2952211	29A-16	Balloons, rubber.....	3099567	30A-14
Asphalted felt-base floor and wall covering.....	2274211-61	22D-9	Balls: baseball; tennis.....	3949053-63	39B-14
Aspirin (acetylsalicylic acid).....	2834617	28C-11	Balls: golf.....	3949031	39B-14
Aspirin compounds, non-effervescent..	2834618	28C-11	Balls: other athletic.....	3949067-73	39B-14
Assistants and finishes: textile; leather.....	2843011-71	28D-12	Balls, rubber, except sporting goods.	3099579	30A-14
Athletic and sporting goods.....	3949011-98	39B-14	Bandages (surgical dressings).....	3842221	38A-15
Atlases, publishing.....	2741061	27A-13	Bandeaux.....	2342111	23D-22
Audio equipment, complete units.....	3661671	36C-13	Bands, cellulose.....	2823331	28B-16
Auger bits (edge tools).....	3422071	34A-13	Bands, rubber.....	3099571	30A-14
Autographic registers.....	3579033	35E-9	Barber-shop equipment.....	3991011	39E-15
Automatic pilots, aircraft.....	3811111	38A-15	Barbiturates, pharmaceutical prepa- rations.....	2834650-57	28C-11
Automobile lifts (service stations and garage types).....	3562031	35D-19	Barges.....	3731---	37C-12
Automobiles.....	3717111	37A-11	Barium carbonate (precipitated)....	2819701	28A-14
Automotive—			Barium compounds.....	2819701-06	28A-14
Maintenance equipment.....	3589111	35F-17	Barn equipment.....	3522958-72	35A-23
Parts, rebuilt.....	3599411	35G-12	Barnyard equipment.....	3522973-82	35A-23
Replacement parts (see also speci- fic kind).....	3717500	37A-11	Barometers.....	3821331	38A-15
Sealed beam lamps.....	3651031-32	36B-13	Barrels, metal shipping.....	3491211-371	34F-15
Wire and cable.....	3631271,75- 79	36B-11	Barrels, wood.....	2445111-221, 241	24C-11
Awnings, canvas.....	2394021	23F-16	Bars:		
Awnings and canopies, sheet-metal....	3444071	34C-15	Aluminum and aluminum-base alloy..	3352211,71	33C-10
Axes.....	3422031	34A-13	Candy, except solid chocolate....	2071111-31	20F-11
Axle shafts, motor vehicle.....	3717500	37A-11	Concrete reinforcing, fabricated..	3441452	34C-12
			Copper and copper-base alloy.....	3351011,31	33C-10
			Nickel.....	3359239	33C-10
			Steel, hot-rolled.....	3312711-51	33A-15
			Baseball equipment, except uniforms..	3949061,65- 66,98	39B-14
			Baseball uniforms.....	2329300	23B-26
			Basketballs.....	3949071	39B-14
			Baskets: fruit, vegetable.....	2441011-98	24C-10
			Baskets: reed; rattan; and willow....	2442011	24C-10



Product	Code	Page	Product	Code	Page
Bassinets, hospital furniture.....	2532019	25B-11	Berry cups, veneer and splint.....	2441041	24C-10
Bassinets, reed; rattan.....	2519211	25A-14	Beryllium compounds.....	2819798	28A-16
Bathing caps, plastic.....	2385081	23E-19	Beverage—		
Bathing caps, rubber.....	3099555	30A-14	Bases (except sirups).....	2095211	20H-16
Bathing suits:			Cooling and dispensing equipment,		
Girls; teen-age girls; children's;			coin operated.....	3585651-91	35F-14
infants'.....	2253341-55	22C-19,	Cooling and dispensing equipment,		
		23D-23	other than coin operated.....	3585341-57	35F-13
Men's; boys'.....	2253311-25	22C-18,	Beverages:		
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Wire and cable, insulated.....	3631111-298	36B-11	Writing ink.....	2899375-76	28H-22
Wire:			Writing paper and envelopes (station-		
Barbed; twisted.....	3489511	34E-13	ery; tablets).....	2699111-59	26B-17
Nonferrous metal, except insulated.	3392211-411	33C-10, 33D-12	Writing paper stock.....	2612331-41, 51-69	26A-11
Steel, except insulated.....	3392111-51	33A-16, 33D-12	Wrought iron forgings.....	3391311	33D-16
Wire cloth.....	3489431-98	34E-13			
Wire-drawing machines.....	3542851	35B-15	X		
Wire glass.....	3211321-25	32A-9			
Wire products, fabricated.....	3489111-598	34E-12, 13	X-ray equipment, except film.....	3693111-98	36D-10
			X-ray film.....	3861563	38B-8
Wire recorders, electric.....	3661615	36C-13	X-ray tubes.....	3693181	36D-10
Wire springs.....	3489111-98	34E-12			
Wiring devices, current-carrying.....	3611101-79	36A-14	Y		
Wiring devices, non-current carrying..	3611211-41	36A-14			
Wood alcohol.....	2861021-25	28F-12	Yachts.....	37315	37C-12
Woodbox-making machinery.....	3553121	35C-14	Yarn:		
Wood distillates, hardwood.....	2861011-98	28F-12	Acetate.....	28251111-98	28B-18
Wood distillates, softwood.....	2862011-98	28F-12	Asbestos.....	3292141	32E-14
Woodenware, flat veneers.....	2499425	24D-12	Carpet and rug weaving, wool.....	2271211-31	22D-8
Woodenware, turned, shaped, or molded.	2499421	24D-12	Cotton system, yarn.....	2224211-259	22B-14
Wood fillers and sealers.....	2853051	28E-13	Jute.....	2297111	22F-13
Wood preparation equipment.....	3554011	35C-14	Rayon (viscose and cuprammonium		
Wood preserving.....	2491011	24D-11	process).....	2825211-39	28B-18
Wood products, prefabricated.....	2433111-371	24B-9	Silk system.....	2225011-78	22B-14
Wood pulp.....	2611111-871	26A-9	Thrown, filament.....	2222011-98	22B-14
Wood rosin.....	2862031	28F-12	Woolen system, except carpet and		
Wood turnings, textile machinery.....	3552211	35C-13	rug yarn.....	2212011-77	22A-8
Wood turpentine.....	2862011-15	28F-12	Yarn fabrics, colored, cotton.....	2233411-75	22B-17
Woodworking machinery.....	3553101-298	35C-14	Yarn finishing, except wool.....	2261311-55	22B-21
Wool and woolen products, except ap-			Yarn finishing, wool.....	2216	22A-7
parel:			Yeast.....	2091211-71	20H-15
Carpets; rugs; carpet yarn.....	2271111-231	22D-8	Yeast tablets for human use.....	2834681	28C-12
Dyeing and finishing.....	2216	22A-7			
Fabrics, broad-woven.....	2213111-398	22A-9, 10	Z		
Felts, woven.....	2213311-98	22A-10			
Scoured wool; recovered wool			Zinc and zinc-base alloy—		
grease.....	2211031-055	22A-8	Castings.....	3361041-49	33C-12
Tops and noils.....	2211011, 21	22A-8	Compounds, chemical.....	2819784-88	28A-16
Yarns.....	2212011-77	22A-8	Rolling and drawing.....	3359251-55	33C-10
Wool grease.....	2211051-55	22A-8	Smelting and refining, alloys.....	3341411	33B-11
Wool, mineral.....	3275011-98	32D-11	Smelting and refining, unalloyed..	3333111-251	33B-11
Wool, steel.....	3291231	32E-13	Zippers.....	3964031	39C-17
			Zithers.....	3939098	39B-13



# List of Corrections

This volume has been prepared primarily by assembling and binding the statistical portions of previously issued Industry Bulletins. This publication plan was adopted to reduce publication costs and expedite

the issuance of the volume. The corrections appearing below represent changes which would ordinarily have been made if the volume had been prepared by reprinting the contents of the bulletins.

Page no.	Table	Code	Item	Columns	Change	
					From--	To--
20A-12	6A	2011511	Lard, rendered and refined (including rendered pork fat).....	2, 4, 8, and 12	21,647,627	2,164,762
20F-14	7	011141	Sugar cane.....	5	( <sup>1</sup> )	( <sup>2</sup> )
		206111	Raw cane sugar (96 degree basis).....	4	<sup>2</sup> 5,501,441	<sup>3</sup> 5,501,441
				5	<sup>4</sup> 664,997	<sup>5</sup> 664,997
		084221	Chicle.....	Stub	( <sup>1</sup> )	( <sup>4</sup> )
			Footnotes should read: <sup>1</sup> Does not include cane consumed in Industry 2062 which amounted to between 5 and 10 percent of the total consumption in both industries combined. <sup>2</sup> Included in "all other materials, etc.," code 970000, to avoid disclosing of figures for individual companies. <sup>3</sup> Does not include a small amount of raw sugar consumed in Industry 2061, amounting to less than 1 percent of the total consumption in both industries combined. <sup>4</sup> Chicle combined with "all other ingredients, etc.," code 970000, to avoid disclosure of figures for individual companies.			
20G-3	1		Footnote 4 should read: <sup>4</sup> In this industry, which contains a large number of very small establishments, there is a possibility that some of the small establishments have been misclassified as to industry. This would not affect the statistics other than the number of establishments.			
20G-6	3		Electric energy: Generated.....	1	72	...
			Electric motors driven by purchased energy.....	5	93,779	94
			Electric motors driven by energy generated at the establishment.....	2	64,034	64
				5	23,715	24
20G-12	6A	20853	Bottled liquors.....	4	370,838	1,370,838
20H-5	1		Food preparations, n.e.c. (S.I.C. 2099): 1947.....	2	49,346	59,599
				6	358,643	392,623
21A-4	2		Cigarettes (S.I.C. 2111), total.....	2	19	18
			All other divisions.....	2	6	5
			Cigars (S.I.C. 2121), total.....	2	291	129
			New England.....	2	26	5
			Connecticut.....	2	13	3
			Middle Atlantic.....	2	151	66
			Pennsylvania.....	2	89	52
			North Central.....	2	45	14
			Wisconsin.....	2	6	2
			South and West.....	2	69	44
			Chewing and smoking tobacco, (S.I.C. 2131), total.....	2	53	28
			Northeast.....	2	14	4
			New York.....	2	4	1
			North Central.....	2	16	4
			South and West.....	2	23	20
			Kentucky.....	2	6	4
			Tobacco stemming and redrying (S.I.C. 2141), total.....	2	130	116
			Northeast.....	2	15	8
			Pennsylvania.....	2	12	8
			East North Central.....	2	7	5
			Ohio.....	2	3	2
			Wisconsin.....	2	4	3
			South Atlantic.....	2	76	75
			Virginia.....	2	19	18
			East South Central.....	2	32	28
21A-5	3		All employees (average for year), by month:			
			January.....	4	23,058	24,083
			February.....	4	16,290	17,014
			March.....	4	12,865	11,621
			April.....	4	9,493	9,915
			May.....	4	10,550	9,879
			June.....	4	9,518	9,941
			July.....	4	12,169	12,710
			August.....	4	25,882	24,510
			September.....	4	27,189	28,397
			October.....	4	28,090	29,338
			November.....	4	26,086	22,677
			December.....	4	24,962	26,071

## LIST OF CORRECTIONS

Page no.	Table	Code	Item	Columns	Change	
					From--	To--
21A-5	3		Materials, parts, containers, and supplies consumed.....	1	960,902	960,453
			Fuels consumed, total.....	1	1,317	2,070
			Bituminous coal and anthracite:			
			Quantity.....	1	132	210
			Value.....	1	1,038	1,716
			Coke:			
			Quantity.....	3	22	2
			Fuel oil:			
			Quantity.....	1	86	102
			Value.....	1	260	335
			Electric energy:			
			Purchased:			
			Quantity.....	1	143	96
			Cost.....	1	1,479	1,175
			Generated.....	1	39	96
21A-6	3		Horsepower of prime movers and electric motors driven by purchased energy, total.....	1	99	144
			Engines, etc. driving electric generators.....	1	22	66
			Engines, etc. not driving electric generators.....	1	5	6
			Electric motors driven by energy generated at the establishment.....	1	19	24
22C-3	Text		Should read: Industry 2253 output of knit outerwear in 1954 represented 73 percent of these products, valued at \$666 million produced by all industries.			
22C-7	2		Knit outerwear mills (S.I.C. 2253)			
			Middle Atlantic.....	2	407	423
			New York.....	2	264	276
			New Jersey.....	2	58	60
			Pennsylvania.....	2	85	87
22C-8	2		South.....	2	43	26
			Virginia.....	2	8	9
23C-3	1		Footnotes.....		(3)	Delete
					(4)	(3)
					(5)	(4)
					(6)	(5)
					(7)	(6)
					(8)	(7)
					(9)	(8)
23C-20	6A	2333013	Dresses and suits made in knitting mills.....	1	4,500	3,023
				3	2,400	2,286
23E-13	3		Electric energy:			
			Purchased:			
			Quantity.....	7	300	8
				8	270	7
24B-8	6A		Panel type (including french doors):			
			Douglas fir.....	2	4,206	4,341
			Western pine.....	2	1,996	2,060
			Flush type:			
			Hollow core:			
			Softwood faces.....	2	1,834	1,893
			Hardwood faces.....	2	12,188	12,574
			Solid core:			
			Hardwood faces.....	2	1,384	1,429
24B-9	6A	2432398	Other softwood plywood exterior type.....	3	15,515	1,551
26B-22	7		Paper.....	2	720,846	756,030
		261219 261221	Coarse and special industrial <sup>2</sup> .....	2	333,557	368,231
27A-8	3		Capital expenditures, new.....	6	3,370	3,270
			New machinery and equipment.....	6	2,465	2,365
27C-8	6		Matrixes made for others.....	Product code	3794051	2794051
28A-5	1		Industrial inorganic chemicals (S.I.C. 281):			
			1954.....	Stub	1954	1954 <sup>7</sup>
			Alkalies and chlorine (S.I.C. 2812):			
			1954.....	Stub	1954 <sup>7</sup>	1954
28A-8	3		Electric energy:			
			Generated.....	3	3,227	3,025
28A-12	6A	2819152	Solid.....	3	46,324	56,324

## LIST OF CORRECTIONS

Corr. 3

Page no.	Table	Code	Item	Columns	Change	
					From--	To--
28A-16	6A		Footnote 13 should read: <sup>13</sup> Excludes the value of inorganic chemicals shipped by plants, whose primary activity is such that the establishment is classified as "nonmanufacturing." The data for specific chemicals (7 digit product codes), however, represent totals for wherever made, and therefore include figures for T.V.A. plants and those classified in the "Mineral Industries," which "nonmanufacturing" plants shipped \$98,474 thousand of inorganic chemicals.			
28B-7	1		Intermediates and organic colors (S.I.C. 2822): 1947.....	6	239,771	259,771
28B-9	2		Plastics materials (S.I.C. 2823): Middle Atlantic..... New York..... New Jersey.....  North Central..... Ohio.....  South.....  Pacific..... California.....	2 2 2 2  2 2  2  2 2	50 18 20  29 11  17  19 14	48 17 19  28 10  22  18 13
28B-22	7		All of Industry 2825, Synthetic fibers.....	2	.....	Short tons
28C-5	2	2834	East South Central..... Mississippi.....	3 3	2,066 401	2,299 634
28C-10	6A	2834121	For livestock, excluding poultry.....	1 2	45,384 36,880	47,844 39,340
		2834131	For pets and small animals.....	1 2	10,131 6,576	7,671 4,116
28E-1	Text		Should read: The terms "trade products" and "industrial products," used in this report refer to specific products, and should be clearly distinguished from the terms "trade sales" and "industrial sales," for which monthly data are published in the Facts for Industry Series M19J, Paint, Varnish, and Lacquer.			
28F-17	7	281941	Ammoniating or nitrogen solutions.....	5	526,072	<sup>4</sup> 526,072
28G-2	Text		Should read: About 30 percent of the flaxseed is processed by the screw press method.			
28G-15	6A	2886241	For fertilizer.....	1 2	29,479 28,683	21,228 20,432
28G-18	7		Table 7 Not applicable to this bulletin			
28H-22	6A	2899357	Should read: Laundry soaps			
29A-5	1		Petroleum refining (S.I.C. 2911): 1952 <sup>5</sup> .....  1951 <sup>5</sup> .....  1950 <sup>5</sup> .....	7 8  7 8  7 8	9,945,456 11,904,921  9,548,832 11,538,979  7,925,986 9,410,427	8,945,456 10,904,921  8,548,832 10,538,979  6,925,986 8,410,427
29A-7	2	2932	Indiana.....	12	2,028	3,120
29A-11	3		Footnote 6 should read: <sup>6</sup> Represents purchased fuels. For data showing quantities and values of fuels produced and consumed in the same establishment, see Table 7D.			
29A-14	6A	29118	Unfinished oils and lubricating oil base stock.....	5 9	18,146 14,452	-18,146 -14,452
		2911811	Unfinished oils <sup>12</sup> .....  Made in lubricants, n.e.c., industry.....	5 9  5 9	27,178 14,823  3,499 6,459	-27,178 -14,823  -3,499 -6,459
29A-15	6A		Second bank box heads.....	2 and 5	Receipts	Production
29A-16	6A		Box heads.....	2 and 5	Receipts	Production
		2952311	Asphalt board products.....	1	Square feet	1,000 sq. ft.
29A-23	7A		INDUSTRY 2911 - PETROLEUM REFINING Anti-oxidants and inhibitors.....	1	Thousand barrels	Barrels
		131421	Liquefied petroleum gases <sup>5</sup> .....	1	do.	1,000 barrels
			INDUSTRY 2992 - LUBRICANTS, N.E.C. Anti-oxidants and inhibitors.....	1	Thousand barrels	Barrels
		280071	Additives used in making lubricants <sup>6</sup> .....	1	do.	1,000 barrels



## LIST OF CORRECTIONS

Page no.	Table	Code	Item	Columns	Change	
					From--	To--
29A-26	7B		Anti-oxidants and inhibitors (Code 230061).....		1,000 barrels	Barrels
30A-6	2		Rubber industries, n.e.c. (S.I.C. 3099): South.....	11	5,346	5,819
31B-8	3		Electric energy: Generated.....	2 3	15 15	... ...
32A-12	7	970000	Materials, containers, and supplies, total..... All other materials, containers, and supplies.....	4 4	65,114 58,310	52,435 45,631
33A-9	3		Electric energy: Generated.....	1	14,728	10,588
33A-19	6B	3312111	Ingots.....	2	81,245,985	81,145,687
		3312411-13	Sheets and strip: Sheets: Hot-rolled and enameling.....	1 3	2,404,747 2,351,703	2,845,578 2,791,565
		3312417	Strip: Hot-rolled.....	1 3	917,713 837,236	476,882 397,374
33A-23	6C		Carbon steel: Finished shapes and forms: Sheets and strip: Sheets: Hot-rolled..... Enameling.....	1	6,629,905	6,189,074
			Strip: Hot-rolled.....		1,047,220	1,488,051
33A-26	6G		United States, total.....	1	88,416,389	88,316,091
			Other divisions <sup>1</sup> .....	2 1	81,245,985 4,128,363	81,145,689 4,028,065
34D-5	2		Metal stampings (S.I.C. 3463): New England..... Middle Atlantic..... New York.....	11 11 11	4,087 6,644 2,700	2,479 8,251 3,824
34E-13	6A	3489551	Wire garment hangers.....	2	<sup>7</sup> 131,816	<sup>8</sup> 131,816
35A-20	6A	3522451	Flame sprayers, hand.....	3 5	556 534	335 313
35A-21	6A	3522623	Reel type.....	1 2 3 4 5 6 7	26,679 25,067 6,280 23,907 5,984 1,160 296	40,685 39,319 9,574 37,303 9,107 2,016 467
		3522624	Wheel type.....	1 2 3 4 5 6 7	35,032 36,476 8,226 34,181 7,758 2,295 468	21,026 22,224 4,932 20,785 4,635 1,439 297
35A-29	6C		Gasoline and other carburetor..... All other.....	1 1	11,153,379 <sup>2</sup> 3,669,505	11,186,820 <sup>2</sup> 3,702,946
35A-30	6D		Horsepower rating: Total.....  36-40.....  46-50.....  Piston displacement (cubic inches) Total.....  151-175.....  251-300.....	1 8  1 8  1 8  1 8  1 8	<sup>1</sup> 3,669,505 605,077  22,760 16,525  23,136 7,105  <sup>1</sup> 3,669,505 605,077  25,604 3,479  21,278 2,529	<sup>1</sup> 3,702,946 638,518  32,169 25,934  47,168 31,137  <sup>1</sup> 3,702,946 638,518  35,013 12,888  45,310 26,561
35A-33	6H		Revolutions per minute: 750 and under..... 751-1,500..... 1,501-2,999..... Method of cooling: Liquid.....	1 1 1 1	<sup>2</sup> 101,201 399,738 373,271	<sup>2</sup> 125,233 409,147 406,712

Page no.	Table	Code	Item	Columns	Change	
					From--	To--
35A-33	6H		Number of cycles: 4.....	1	2,603,674	2,637,115
	6I		Gasoline: 4.....	1	283,951	317,392
35B-11	6A	3541433	Reciprocating table type, horizontal and vertical spindle (including face grinders).....	1 2	2,955 16,468	3,638 17,254
		3541439	All other surface grinding machines (including planer type).....	1 2	410 2,881	142 1,519
		3541417 3541419 3541498	All other grinding machines (including crank shaft and other external cylindrical grinding machines, radius, spline, contour plate edge, jig grinders, centerless, and other grinding machines, n.e.c.).....	1 2	310,295 37,179	310,301 38,433
		3541400	Grinding and polishing machines (excluding gear tooth grinding, honing, lapping, polishing, and buffing machines) not specified by type.....	2	3,167	2,381
35B-12	6A	3541698	All other milling machines (including spline, routers, cam, engraving) and ram-type swivel head milling machines.....	1 2	1,135 8,234	(NA) 9,258
		3541721	Keyseating machines.....	2	956	612
		3541775	Pipe threading.....	1 2	2,319 1,980	663 979
35B-14	6A	3542515	Binding rolls, angles, bars and shapes.....	1 2	115 1,554	94 858
35C-15	6A	3555069	Engravers materials and equipment (including metal plates, wood blocks, lithographic stones, etc.).....	3	9,344	8,320
35C-19	7	361431	Integral horsepower electric motors and generators.....	4	9,733	10
35E-13	8		Should read: Automatic merchandising machines except refrigerated:			
35F-23	7	35751	Footnote 7.....		91	417
36A-19	6A	3619211	Power capacitors (including shunt and series capacitors and accessories).....	3	19,615	23,597
		3619298	Other capacitors, excluding fixed and communication type.....	3	15,665	11,683
36A-22	6A		Footnote 1.....		3,661,498	3,614,498
36A-27	7	361411	Fractional horsepower electric motors.....	4	xxx	2,326
36B-17	8		Should read: Insulated wire and cable (entire industry)			
36C-11	6A		Transceivers: Automobile..... Other.....	1 1	36,465 xxx	xxx
		3661435 3661439	Transceivers: Automobile..... Other.....	2 2	6,699 128,966	135,665
37A-3	1		Total for truck and bus bodies, motor vehicles and parts, truck trailers, and automobile trailers <sup>2</sup> : 1952 <sup>2</sup> .....	4	661,918	601,918
37C-17	7		Add footnote 6 as follows: <sup>6</sup> In addition, establishments in this industry produced 20,793 gasoline and other carburetor engines for incorporation into other items produced at the same establishment.			
38B-11	7		INDUSTRY 3861 - PHOTOGRAPHIC EQUIPMENT			
		361411	Fractional horsepower electric motors.....	2	873,980	874
39C-16	6	3951011	\$1.00 each and under (retail price).....	2		17,024
		3951015	\$1.01 to \$5.00 each (retail price).....	2		6,271
		3951017	\$.50 each and under (retail price).....	2		82,095
		3951018	Over \$.50 each (retail price).....	2		46,685
39E-2	Text		Should read: Industry 1951, Small Arms, consists of establishments primarily engaged in manufacturing small firearms having a bore 30 mm (or 1.18 inches) and under.			

In addition to the corrections listed above the following pages were reprinted:

20E-1, 20E-2, 20E-3, 20E-4, 20E-5, 20E-8, 20E-9, 20E-10, 20E-12, 20E-13,  
20E-15, 20E-16, 20E-17, 20E-18, 20E-19, 20E-20, 20E-21 and 20E-22  
26A-6, 26A-22, 26A-27, and 26A-28  
31A-10, 31A-14, 31A-15, 31A-16, 31A-18, and 31A-20









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